The University of Sydney

Faculty of Architecture Handbook 2006

University dates

University semester and vacation dates 2006

Summer School	
Lectures begin	Tuesday 3 January
Lectures end	Friday 3 March
Semester One	
Lectures begin	Monday 6 March
AVCC common week/non-teaching Easter period	Friday 14 April to Friday 21 April
Last day of lectures	Friday 9 June
Study vacation: one week beginning	Monday 12 June to Friday 16 June
Examination period	Monday 19 June to Saturday 1 July
Semester ends	Saturday 1 July
AVCC common week/non-teaching period	Monday 3 July to Friday 7 July
Semester Two	
Lectures begin	Monday 24 July
AVCC common week/non-teaching period	Monday 25 September to Friday 29 September
Last day of lectures	Friday 27 October
Study vacation	Monday 30 October to Friday 3 November
Examination period	Monday 6 November to Saturday 18 November
Semester ends	Saturday 18 November

These dates (and any updates) are also available at:
www.usyd.edu.au/fstudent/imdergrad/apply/scm/dates.shtml

Last dates for withdrawal or discontinuation 2006

Semester One units of study	
Last day to add a unit	Friday 17 March
Last day for withdrawal	Friday 31 March
Last day to discontinue without failure (DNF)	Friday 28 April
Last day to discontinue (Discontinued - Fail)	Friday 9 June
Semester Two units of study	
Last day to add a unit	Friday 4 August
Last day for withdrawal	Thursday 31 August
Last day to discontinue without failure (DNF)	Friday 8 September
Last day to discontinue (Discontinued - Fail)	Friday 27 October
Last day to withdraw from a non standard unit of study	By the census date of the non standard unit of study which must not be earlier than 20 per cent of the way through the period of time during which the unit is undertaken.
	Details are in the session calendar on the timetabling website **http://web.timetable.usyd.edu.au**.

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This book (and other handbooks) can also be found at:
www.usyd.edu.au/handbooks

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The information in this handbook is subject to approval and/or change by the appropriate faculty of the University. Students should always check the accuracy of the information with faculty staff.

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Faculty of Architecture Handbook

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/".

A welcome from the Dean

I would like to welcome you to the University of Sydney and to introduce you to the range of programs offered in the Faculty of Architecture. We are committed to improving the quality of the built and designed environments by providing you with a high level education, to help you gain professional and intellectual insight into the vital and current debates in the future of environments in which we live, work and play.

The faculty offers a leading range of undergraduate, coursework and research degrees in Australasia dealing with the designed and built environments. We have always had a strong presence in the field of architecture and architectural sciences, urban planning and urban design, but more recently established ourselves as a leading centre for the design of digital environments.

Currently we have close to 1300 full-time and part-time undergraduate, postgraduate coursework and research students, post-doctoral fellows and visiting scholars studying and working with us. We welcome your decision to join us. There are a number of different paths you may take on your way to several possible fields of practice.

The faculty offers undergraduate qualifications in architecture through the accredited contiguous degrees of Bachelor of Design in Architecture/Bachelor of Architecture. In these degrees you may wish to choose a stream in allied arts in architecture, digital architecture, urban design and planning or units from another subject area in another faculty. Alternatively you may wish to pursue studies in the design of digital environments in the Bachelor of Design Computing. We encourage the best in these programs to undertake the Honours program and pursue further research qualifications.

If you wish to specialise after your undergraduate studies, our coursework masters degrees, graduate diplomas and graduate certificates are offered in a wide range of programs: architecture, audio design, building, building services, design computing, digital media, facilities management, heritage conservation, illumination design, sustainable design, urban design and urban and regional planning. Graduates of these programs have become leaders in their fields throughout Australia and the Asia Pacific region.

The faculty also offers the opportunity to pursue research degrees, both MPhil and PhD, in five disciplines — architecture and allied arts, architectural science, design computing and cognition, environment-behaviour studies, and urban and regional policy and planning.

You may elect to study in any of these fields, or to pursue interdisciplinary coursework or research studies in a combination of fields within the faculty or between the faculty and elsewhere in the university. We support these degrees with a wide range of resources, including extensively equipped laboratories and comprehensive workshop facilities. My colleagues in the faculty include world-renowned researchers and educators in each of these areas, ready to assist and mentor you in your learning.

Enjoy your studies!

Professor Tom Kvan, MA *Camb* MArch *Calif* PhD *Open(UK)*,
AHKIA AAIA
Dean

1. Guide to the Faculty

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

University dates

Please see the University dates (http://www.usyd.edu.au/fstudent/undergrad/apply/scm/dates.shtml) page for a listing of all current semester, holiday and examination dates within the University of Sydney.

Short history

The Faculty of Architecture, the first in Australia, was established in 1919 to conduct an undergraduate professional Bachelor of Architecture program. In 1948 the Department of Town and Country Planning was founded within the Faculty and in 1989 was renamed the Department of Urban and Regional Planning. In 1954 a Chair of Architectural Science was created around which the Department of Architectural Science developed. In 1989 the department was renamed the Department of Architectural and Design Science. The Tin Sheds Gallery and Art Studios became part of the Faculty in 1990, having previously been a central academic service unit which developed from resources provided by the Faculty in the 1960s. In 2002 the Faculty was restructured, with a Faculty-wide School (and newly appointed Head of School) overseeing the disciplinary groups.

Since 1984 the Faculty has been housed under one roof in the purpose-designed Wilkinson Building, which contains the most comprehensive architecture and planning library, the Denis Winston Architecture Library, and the largest and most advanced centre for design computing in Australia. The Faculty also has four research centres: the AHURI Housing and Urban Research Centre, the Ian Buchan Fell Housing Research Centre, the Planning Research Centre and the Key Centre of Design Computing.

There are currently in the region of 1,300 students enrolled in the following degrees, diplomas, and certificates that may be awarded in the Faculty.

Degrees, diplomas and certificates offered

Undergraduate degrees

- Bachelor of Design in Architecture - BDesArch
- Bachelor of Design Computing - BDesComp
- Bachelor of Architecture - BArch

Research degrees

- Doctor of Science in Architecture - DScArch
- Doctor of Philosophy - PhD
- Master of Philosophy (Architecture) - MPhil(Arch)

Graduate degrees by coursework

- Master of Architecture (Architectural Design) - MArch(ArchDes)
- Master of Architecture (Architectural History, Theory and Criticism) - MArch(ArchHistTheory&Crit) *(admission suspended 2005)*
- Master of Architecture (Architectural and Urban Design) - MArch(Arch&UrbDes)
- Master of Design Science (Audio Design) - MDesSc(AudioDes)
- Master of Design Science (Building) - MDesSc(Build)
- Master of Design Science (Building Services) - MDesSc(BuildServ)
- Master of Design Science (Design Computing) - MDesSc(DesComp)
- Master of Design Science (Digital Media) - MDesSc(DigMed)
- Master of Design Science (Facilities Management) - MDesSc(FacMan)
- Master of Design Science (Illumination Design) - MDesSc(IllumDes)
- Master of Design Science (Sustainable Design) - MDesSc(SustainDes)
- Master of Design Science (double stream) - MDesSc(streams)
- Master of Facilities Management - MFM
- Master of Heritage Conservation - MHeritCons
- Master of Urban Design - MUrbDes
- Master of Urban Design (Urban Design & Planning) - MUrbDes(UrbDes&Plan)
- Master of Urban and Regional Planning - MURP
- Master of Urban and Regional Planning (Heritage Conservation) - MURP(HeritCons)
- Master of Urban and Regional Planning (Housing Studies) - MURP(HS)
- Master of Urban and Regional Planning (Urban Design) - MURP(UrbDes)

Graduate diplomas by coursework

- Graduate Diploma in Architecture (Architectural Design) - GradDipArch(ArchDes)
- Graduate Diploma in Architecture (Architectural History, Theory and Criticism) - GradDipArch(ArchHistTheory&Crit) *(admission suspended 2005)*
- Graduate Diploma in Design Science (Audio Design) - GradDipDesSc(AudioDes)
- Graduate Diploma in Design Science (Building) - GradDipDesSc(Build)
- Graduate Diploma in Design Science (Building Services) - GradDipDesSc(BuildServ)
- Graduate Diploma in Design Science (Design Computing) - GradDipDesSc(DesComp)
- Graduate Diploma in Design Science (Digital Media) - GradDipDesSc(DigMed)
- Graduate Diploma in Design Science (Facilities Management) - GradDipDesSc(FacMan)
- Graduate Diploma in Design Science (Illumination Design) - GradDipDesSc(IllumDes)
- Graduate Diploma in Design Science (Sustainable Design) - GradDipDesSc(SustainDes)
- Graduate Diploma in Facilities Management - GradDipFM
- Graduate Diploma in Heritage Conservation - GradDipHeritCons
- Graduate Diploma in Urban Design - GradDipUrbDes
- Graduate Diploma in Urban and Regional Planning - GradDipURP

Graduate certificates by coursework

- Graduate Certificate in Architecture (Architectural Design) - GradCertArch(ArchDes)
- Graduate Certificate in Architecture (Architectural History, Theory and Criticism) - GradCertArch(ArchHistTheory&Crit) *(admission suspended 2005)*
- Graduate Certificate in Design Science (Audio Design) - GradCertDesSc(AudioDes)
- Graduate Certificate in Design Science (Building) - GradCertDesSc(Build)
- Graduate Certificate in Design Science (Building Services) - GradCertDesSc(BuildServ)
- Graduate Certificate in Design Science (Design Computing) - GradCertDesSc(DesComp)
- Graduate Certificate in Design Science (Digital Media) - GradCertDesSc(DigMed)
- Graduate Certificate in Design Science (Facilities Management) - GradCertDesSc(FacMan)
- Graduate Certificate in Design Science (Illumination Design) - GradCertDesSc(IllumDes)
- Graduate Certificate in Design Science (Sustainable Design) - GradCertDesSc(SustainDes)
- Graduate Certificate in Facilities Management - GradCertFM

- Graduate Certificate in Heritage Conservation - GradCertHeritCons
- Graduate Certificate in Urban Design - GradCertUrbDes
- Graduate Certificate in Urban and Regional Planning - GradCertURP

Combined degrees with other Faculties

- Master of Transport Management/ Master of Urban & Regional Planning - MTM/MURP
- Master of Commerce/ Master of Facilities Management - MCom/MFM

Staff

Academic staff

Dean and Associate Deans

Dean
Professor Thomas Kvan, MA *Camb* MArch *Calif* PhD *Open(UK),* AHKIA AAIA

Associate Dean(Staff)
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Associate Dean (Graduate Studies)
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Kristine S Sodersten, DipHEd *UNSW* BArch, ARAIA

Associate Dean (Undergraduate Studies)
Michael A Rosenman, BArch MBdgSc PhD

Undergraduate programs coordinators

Bachelor of Design in Architecture
Kristine S Sodersten

Bachelor of Design Computing
Professor Mary Lou Maher

Bachelor of Architecture
Dr Peter Armstrong

Graduate programs coordinators

Architecture
Professor Tom Heneghan

Audio Design
Dr Densil Cabrera

Building
Dr Simon N Hayman

Building Services
Associate Professor Warren G Julian

Design Computing
Dr Andy Dong

Digital Media
Dr Kir sty Beilharz

Facilities Management
Dr David Leifer

Heritage Conservation
Trevor Howells

Illumination Design
Associate Professor Warren G Julian

Sustainable Design
Bruce S A Forwood

Urban Design
Barrie Shelton

Urban and Regional Planning
Martin Payne

Art workshops

Coordinator
Jan Fieldsend

Discipline heads

Architecture and Allied Arts
Professor Tom Heneghan

Architectural and Design Science
Associate Professor Warren G Julian

Design Computing and Cognition
Professor John S Gero

Environment-Behaviour Studies
Professor Gary T Moore

Urban and Regional Planning and Policy
Professor Edward Blakely

Academic positions

Professor of Architecture
Tom Heneghan, AADipl. Appointed 2002

Professor of Design Computing
Mary Lou Maher, BS *Col* MS PhD *Carnegie-Mellon.* Appointed 1998

Professor of Design Science
John S Gero, BE *UNSW* MBdgSc PhD, FRSA FIEAust FAAAI. Appointed 1985

Professor of Designed Environments
Thomas Kvan, MA *Camb* MArch *Calif* PhD *Open(UK),* AHKIA AAIA. Appointed 2005

Professor of Environment - Behaviour Studies
Gary T Moore, BArch *Calif* MA PhD *Clark,* ARAPIRAIA FAPA. Appointed 1997

Professor of Practice
Christopher Johnson, MBEnv *UTS* MArch *UNSW* BArch, FRAIA. Appointed 2005

Professor of Urban & Regional Planning
Edward Blakely, MA PhD *Calif* MMgmt *Pasadena,* FNAPA. Appointed 2003

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William Mitchell
Circe Gama Monteiro

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Jan Fieldsend, MA *UNSW* DipEd *Auck*
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Jin Yeong Jeon
Glenn Leembruggen
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Administration

Faculty Administration Office

Executive Assistant to the Dean
Mary-Louise Huppatz, BA(Journ) *SAust*

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Administration Officer
Suzanne Roberts

Research Support Officer
Anne Christian

Administration Assistant
Honor Morton

Architectural and Technical Services Centre

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Phil Granger

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Rick Moss
Ken Stewart, MDesSc

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Joseph R Nappa, BE
Julian Tarn

Computer Officer
Juan Ruiz

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Continuing Student Adviser
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Lesley Vanderkwast

Administrative Assistants
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Jessica Pymm

Tin Sheds Gallery

Manager
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Administration Assistant
Anita Lever, MArtAdmin *UNSW*

Attendants
Bruce Hyde
Tom Kukuros

The Denis Winston Architecture Library

Librarian
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Senior Library Assistant
Helen Campbell

Library Assistant
John Wu, BA(Hons)

General Library Assistants
Rebecca Goldsworthy, BDes *UNSW*
Margaret Harvey

Research centres

Australian Housing and Urban Research Institute (AHURI)

Director
Vivienne Milligan, PhD *Utrecht* BA(Hons)

Ian Buchan Fell Housing Research Centre

Director
Colin L James AM, MArch *Harv* DipTCP, ASTC(Arch) ARAIA RAPI

Research Assistant
Susan Clarke

Key Centre of Design Computing and Cognition

Co-Directors
Professor John S Gero, BE *UNSW* MBdgSc PhD, FRSA FIEAust FAAAI
Professor Mary Lou Maher, BS *Col* MS PhD *Carnegie-Mellon*
Honorary Associate Professor A Terrence Purcell, PhD *Macq* BA

Planning Research Centre

Director
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Deputy Director
Martin J Payne, MS *Col State*

Associate Director (Research and Development)
Jon Hall, BA *Massey* MTCP

2. Undergraduate degrees

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Bachelor of Design in Architecture

The Bachelor of Design in Architecturealong with its streams Allied Arts in Architecture, Digital Architecture and Urban Design and Planning is focused on learning about designing in the built environment. The program is structured around a required set of core units of study, with a choice of streams and a range of elective units of study within and outside the Faculty.

Students in this program can graduate after three years with a

- Bachelor of Design in Architecture or
- Bachelor of Design in Architecture (Allied Arts in Architecture) or
- Bachelor of Design in Architecture (Digital Architecture) or
- Bachelor of Design in Architecture (Urban Design and Planning)

by selecting the appropriate stream. You may choose to do an additional Honours year and graduate with an Honours degree in your selected stream.

The program is designed to provide you with maximum flexibility to allow you to pursue particular interests while participating in the core of the program with its focus on design in the built environment. Possible pathways and areas of interest include the three streams, particular areas of specialisation offered within the Architecture electives and other specialised areas offered as electives within the Faculty. Opportunities also exist for you to take units of study in other Faculties within the University.

If your interest is in becoming a professional architect, you can apply to continue to the second undergraduate program in the Faculty, the Bachelor of Architecture. However to gain entry to this program you will have to take a specific set of electives, commencing in third year, that are prerequisites for entry to that program and complete the Architectural Experience Requirement (18 weeks of approved work experience or equivalent).

If you follow a particular interest and specialised stream, you may decide to pursue graduate study in a workplace-linked program by applying for enrolment in a graduate certificate, graduate diploma or master degree. As a graduate with a broad education as well as a specialised focus, you will be able to work in diverse private and government arenas, as well as in specialised areas as a designer, in architectural practice, in digital media, and with further study, as a planner. Other areas of graduate specialisation within the Faculty include urban design, housing studies, heritage conservation, illumination design, audio design, facilities management, sustainable design.

In summary the Bachelor of Design in Architecture program will be concerned with:

- understanding and practising design in the built environment;
- providing a broad architectural design education, which is also broad design education, concerned with all aspects of the built environment; and
- providing the basis for more specialised study in areas related to the design of the built environment that can be taken as streams or areas of interest within streams.

Philosophy of the Bachelor of Design in Architecture

Situated, knowledge-based design

The program is underpinned by a strong philosophical approach. This approach is based on design theory, research and practice; educational theory, research and practice and research in areas relevant to design such as to problem solving and the development of expertise.

The key features of this approach are:

Focus on the design process

The design process is the main focus of learning about designing. It is a complex, iterative, interpretive and integrative process that inherently has the potential for innovative and creative responses.

Designing as a situated activity

Designing is a situated activity, that is it can only occur in the specific context established by a particular design problem. It requires the recognition, discovery and use of particular knowledge as it relates to the context established by the design problem. Learning to design involves establishing the physical setting that allows situated learning to occur.

Reflective practice

Reflective practice is central component in the learning and practising of design. Reflection on and reinterpretation of the many areas involved in designing form the basis for learning and practice. These areas include the representations of physical forms, the knowledge required and used, the processes of designing, and interactions of people involved in that process. Useful reflective practice may take both structured and unstructured forms, and range from immediate to reflective review.

Knowledge-based design

Many types of knowledge are relevant to solving a design problem. These have traditionally been taught as separate units of study in a design education. Often these units of study do not have a direct relationship to activities associated with learning how to design or to the selection of the design problem that forms the basis for these activities. A central aspect of the program involves a reconceptualisation of the various types or domains of knowledge associated with design and how this knowledge relates to the design problems used to learn how to design.

The program identifies three areas of knowledge relevant to design. These are referred to as Inhabiting the Built Environment, Designing the Built Environment and Constructing the Built Environment. All of the areas of domain knowledge using more conventional terms like structures and materials or user studies can be mapped into these three areas. These areas form the integrated collaborative core of the program and it is this knowledge which is used to develop the design problems to be used as the basis for learning how to design.

The following outlines the types of knowledge in each of these areas.

Inhabiting the built environment

This area of knowledge includes knowledge of natural systems and built environments and the way people interact with these as individuals, as a society and as professionals; environmental and contextual issues including psychological considerations in design; planning, urban design, landscape and natural systems; knowledge of society, clients and users; social context; ergonomic and space requirements.

Designing the built environment

This area of knowledge includes knowledge of design theories and methods, procedures and systems and the history of design methodology, design precedent, critique and analysis and movements in design theory, movements in aesthetics, design cognition, and design principles; knowledge of historical and cultural precedent, the history and theory of western, non-western, regional and indigenous architecture; awareness of philosophical, cultural and political movements and movements in art, design, music and literature; issues of heritage and conservation in the built environment.

Constructing the built environment

This area of knowledge includes technical knowledge of structure, materials, construction and services systems; awareness of technical documentation, cost control and planning; built environment procure-

ment issues including financial and legal constraints; performance; management; adaptive re-use; aspects of urban design and planning.; codes, regulations and standards for safety and use; introduction to facilities management including brief writing and post-occupancy evaluation.

It is also possible to recognise three types of knowledge within each area. These are conceptual knowledge (knowledge of facts, principles, concepts), precedent knowledge (knowledge of how conceptual knowledge has been used in designed objects), and procedural knowledge (ways of doing, skills).

Collaborative practice
As the activity of designing involves the integration of areas of knowledge it also requires collaboration between experts in these areas. The acquisition of collaborative and team skills forms a further central component of the program.

Progressive use of knowledge
A design education must involve both the development of coherent sets of knowledge and an integrated and progressive sequence of situated learning activities. The ability to integrate and apply complex knowledge in designing is a mark of expertise. To gain this expertise, learning must be developed progressively, integrating previous knowledge and abilities with new knowledge.

Competencies and abilities
The design activity of the program will develop the abilities of students to apply the different types of knowledge in unfamiliar situations, from awareness at a general knowledge level, through competence to excellence and finesse. The core of the program will require demonstration of the ability to apply knowledge at a competent to excellent level, while streams and electives may start with the requirement of a more general ability to demonstrate "knowing about".

Objectives
The Bachelor of Design in Architecture will produce graduates at a pre-professional and pre-research level who will:

- understand the broad social, cultural, aesthetic, environmental and technological issues involved in the design of the built environment;
- be able to identify critical knowledge relevant to the design and planning of the built environment;
- be able to carry out competently appropriate design processes which integrate and resolve this knowledge in order to develop design intentions and strategies for small to medium scaled components of the built environment which realise as design representations social, cultural, aesthetic, environmental and technological values;
- be able to reflect competently on and evaluate their design process in order to improve the outcomes of these processes, in both pre-research and pre-professional contexts;
- understand the cultural, social and historical context of their own and others' design processes;
- understand the roles of both practice and research in the design of the built environment and possess the skills and knowledge to make an informed choice on entering a research or practice career path;
- have an awareness of the issues involved in designing a more sustainable built environment; and
- possess a sense of their ethical responsibilities.

Streams in the Bachelor of Design in Architecture

Allied Arts in Architecture
The Bachelor of Design in Architecture (Allied Arts in Architecture) offers students the opportunity to specialise in art as it relates to architecture, while completing their major studies in architecture. The stream is structured so that the student starts with a general approach and finishes with a focus on the growing fields of public art and site-specific art. The stream consists of mandatory and elective units of study. The mandatory units are AWSS 2001 Public Art (6cp) and AWSS 2002 Site Specific Art (6cp) in the third year. Many students interested in this stream will also complete AWSS 1001 Architectural Sketching and Drawing (6cp) in their first year. Students can choose additional units from a wide range of Allied Arts in Architecture electives; photography, digital video, Web art and design, drawing, painting, mixed media, ceramics, sculpture, object design, screen printing on paper and fabric, print-making and graphic design.

To construct an Allied Arts in Architecture stream best suited to each individual it is suggested that students speak with the coordinator of the stream, Ms Jan Fieldsend. Students can build a particular emphasis into the stream itself so that they focus on, for example, three-dimensional forms or photography or design or the decorative arts as they relate to architecture. It is also expected that students will keep an ongoing, informal resource diary during second and third years to collate ideas, images and a bibliography about art and architecture. This diary will form a strong basis for ongoing research.

The mandatory senior units of study, Site Specific Art and Public Art, allow the student to focus on an area of particular relevance to contemporary architects and planners in that the units specifically look at place and space and how art and architecture can be thought about in dynamic and imaginative ways. It is anticipated that students of the stream will take these units in their third year.

On the successful completion of the Allied Arts in Architecture stream students will have: an awareness of current thinking and practice in various art media, knowledge and insight about the relationship of art to architecture and from that point be able to develop critical analysis and further research, have a set of technical skills in various media, and the ability to develop and translate ideas in various art media and written work in relation to architecture.

Students will be able to further develop their research in the BArch degree by completing an Advanced Study Report and other criteria as set out in the Handbook.

This stream is also relevant to those contemplating taking graduate programs in Architecture or in Urban Design.

Urban Design and Planning
The units of study in the Urban Design and Planning stream provide Bachelor of Design in Architecture students with the opportunity to extend their design skills, working with a wider set of contextual variables such as nearby activities, access, pedestrian provisions and views. Skills in developing proposals (for buildings, sites and local areas) which fit the context and create desirable public places are given a strong emphasis. Students are taught to work at a range of scales using various forms of representation. Particular attention is given to developing skills in preparing site analyses and local area studies, and with constructing basic reasoning to explain and justify proposals.

The introductory unit is based on lectures and on two case projects that require students' simple analyses, before moving to interpreting key points and making simple design proposals.

The senior urban design and planning units are taught as interactive workshops, where each student prepares and presents reports on urban design and planning projects.

Assessment in these workshops is based on a workbook presenting ongoing, preparatory work, with critical and reflective comments, besides presenting the final responses. Equal weight is given to the graphic presentation of proposals or background studies, and to a short report that explains and justifies the proposals.

Bachelor of Design in Architecture enrolment guide

The Bachelor of Design in Architecture is a three year degree, or four years with honours. In order to qualify for the degree candidates must complete the requirements as specified in the resolutions of the Senate and Faculty for this degree. All students should read the degree resolutions (chapter four) and monitor their progress throughout the degree by reference to them. The following points summarise the resolutions but do not replace them.

Summary of requirements

In order to qualify for the award of the pass degree candidates:

- must maintain a full-time enrolment (18 credit points or more per semester - a normal full-time load is 24 credit points per semester, the maximum allowed is 30 credit points per semester);
- must complete successfully 144 credit points;
- must complete successfully 90 credit points from the core units of study as described in Table A;
- must complete successfully at least 18 credit points from the Architecture Electives as described in Table A;
- may complete the requirements for an additional stream as described in Table A;
- may complete no more than 18 credit points from Allied Arts or Digital Media electives unless in the Allied Arts in Architecture or Digital Media streams;
- may complete no more than 18 credit points from units of study offered by other faculties;
- must complete successfully the remainder elective units of study from those listed in Table A;
- may, with the permission of the unit coordinator concerned, enrol in elective units of study from Table G, the Faculty's table of graduate units, provided they have completed at least 96 credit points with a WAM of at least 70.

BACHELOR OF DESIGN IN ARCHITECTURE 144cp constituted as follows

CORE UNITS OF STUDY		**ARCHITECTURE ELECTIVES** UNITS OF STUDY				
90 **cp**	+	18 **cp** (senior) minimum	+	**DIGITAL ARCHITECTURE STREAM** Bachelor of Design in Architecture (Digital Architecture) 18 **cp** minimum Select from **Digital Architecture** stream units of study	+	**ELECTIVE** UNITS OF STUDY 18 **cp** maximum Either a second **stream** or Select elective units of study, including **Architecture Electives, streams, electives,** other faculties and **graduate units** (in 3rd year)
				or		
				URBAN DESIGN AND PLANNING STREAM Bachelor of Design in Architecture (Urban Design and Planning) 18 **cp** minimum (6 junior cp + 12 senior cp) Select from Urban Design and Planning stream units of study	+	**ELECTIVE** UNITS OF STUDY 18 **cp** maximum Either a second **stream** or Select elective units of study, including **Architecture Electives, streams, electives,** other faculties and **graduate units** (in 3rd year)
				or		
		(12 senior credit points of this stream are **prerequisite units of study** for students wishing to proceed to the **Bachelor of Architecture** degree)		**ALLIED ARTS IN ARCHITECTURE STREAM** Bachelor of Design in Architecture (Allied Arts in Architecture) 18 **cp** minimum Select from Allied Arts in Architecture stream units of study	+	**ELECTIVE** UNITS OF STUDY 18 **cp** maximum Either a second **stream** or Select elective units of study, including **Architecture Electives, streams, electives,** other faculties and **graduate units** (in 3rd year)
				or		
See list of **Core** units of study		Select from list of **Architecture Elective** units of study		**ELECTIVE** UNITS OF STUDY Bachelor of Design in Architecture 36 **cp** maximum (12 junior credit points + 24 senior credit points, without BArch prerequisites) Select from **elective** units of study including **Allied Arts** electives (max. 18cp), **Digital Architecture** electives (max. 18cp) electives from other faculties (max. 18 cp), **Urban Design & Planning** electives and **graduate units** (in 3rd year).		

Bachelor of Architecture prerequisites

Candidates who wish to proceed to the Bachelor of Architecture must include the prerequisite units of study described in Table A. Other conditions apply to entry to the Bachelor of Architecture and intending students should read the information for that degree.

Honours

In order to qualify for the honours degree candidates must satisfy the requirements for the pass degree with a Weighted Average Mark of at least 70 and in addition successfully complete 48 credit points consisting of a research thesis. Honours may only be undertaken on a full-time basis.

Planning your degree

The program has been designed so that the core units should be taken in a certain order and the elective units for the stream fitted with them. Students intending to proceed to the Bachelor of Architecture should complete the prerequisite units of study in their final year. Students are advised to carefully consider which stream or streams interest them and plan their elective units accordingly. Enrolment planners for the different streams follow. They offer examples only - you should arrange your program to suit your interests and degree plan.

Transition to six credit point units and new resolutions

Candidates enrolling for the first time in 2005 should use this or the 2005 handbook and the enrolment guide to complete their degrees. The degree resolutions are printed in chapter four of this handbook. Candidates who first enrolled in 2004 should use this handbook and enrolment guide to select units of study to complete their degrees. However, for this cohort of students, the minimum requirement for the satisfactory completion of a stream has been reduced to 15 credit points. This discount has been applied because the first year electives taken were valued at three credit points only. The degree resolutions are printed in chapter four of this handbook. Candidates who first enrolled in or prior to 2003 and are enrolled in the Bachelor of Design (CH008) should use the 2003 handbook to determine the requirements for the degree. The degree resolutions are printed in chapter four of the 2003 handbook, with the exception that the minimum requirement for the satisfactory completion of a stream has been reduced to 15 credit points (except the Architecture stream). This discount has been applied because the first year electives taken were valued at three credit points only. Candidates for the Bachelor of Design (CH008) are not required to complete the Architecture stream; however, neither can they complete the Allied Arts in Architecture stream. If you are enrolled in the Bachelor of Design (CH008) and wish to graduate with the Allied Arts in Architecture stream, you must see the staff of the Architecture Student Administration Centre to transfer to the Bachelor of Design in Architecture (CH020). All students who transfer to the Bachelor of Design in Architecture (CH020) will be expected to meet the requirements of that degree.

Bachelor of Design in Architecture

Unit Code	Name	Credit points
Yearl		
Semester 1		
DESA 1001	Design Practice 1A	12
DESA 1101	Design Studies 1A	6
	Elective	6
Semester 2		
DESA 1002	Design Practice IB	12
DESA 1102	Design Studies IB	6
	Elective	6
	Total for Year 1	48
Year 2		
Semester 1		
DESA 2001	Design Practice 2A	12
DESA 2111	Design Studies 2	6
	Elective/Arch elective	6
Semester 2		
DESA 2002	Design Practice 2B	12
	Electives/Arch electives	12
	Total for Year 2	48
Year 3		
Semester 1		
DESA 3001	Design Practice 3A	12
DAAP 3001	Contemporary Architecture & Theory	6
	Elective/Arch elective	6
Semester 2		
DESA 3002	Design Practice 3B	12
DAAP 3002	Architectural Technologies	6
	Elective/Arch elective	6
	Total for Year 3	48

Bachelor of Design in Architecture (Allied Arts in Architecture)

Unit Code	Name	Credit points
Yearl		
Semester 1		
DESA 1001	Design Practice 1A	12
DESA1101	Design Studies 1A	6
AWSS 1001	Architectural Sketching & Drawing	6
Semester 2		
DESA 1002	Design Practice IB	12
DESA 1102	Design Studies IB	6
	Elective	6
	Total for Year 1	48
Year 2		
Semester 1		
DESA 2001	Design Practice 2A	12
DESA 2111	Design Studies 2	6
	Elective/Arch elective	6
Semester 2		
DESA 2002	Design Practice 2B	12
	Electives/Arch electives	12
	Total for Year 2	48
Year 3		
Semester 1		
DESA 3001	Design Practice 3A	12
DAAP 3001	Contemporary Architectural Theory	6
AWSS2001	Public Art	6
Semester 2		
DESA 3002	Design Practice 3B	12
DAAP 3002	Architectural Technologies	6
AWSS 2002	Site Specific Art	6
	Total for Year 3	48

Bachelor of Design in Architecture (Digital Architecture)

Unit Code	Name	Credit points
Yearl		
Semester 1		
DESA 1001	Design Practice 1A	12
DESA1101	Design Studies 1A	6
	Elective	6
Semester 2		
DESA 1002	Design Practice IB	12
DESA 1102	Design Studies IB	6
DECO 2103	3D Modelling	6
	Total for Year 1	48
Year 2		
Semester 1		
DESA 2001	Design Practice 2A	12
DESA 2111	Design Studies 2	6
DECO 2101	Digital Image Design & Rep	6
Semester 2		
DESA 2002	Design Practice 2B	12
DECO 2102	Interactive Multimedia Design	6
	Elective/ Arch elective	6
	Total for Year 2	48
Year 3		
Semester 1		
DESA 3001	Design Practice 3A	12
DAAP 3001	Contemporary Architecture & Theory	6
	Elective/Arch elective	6
Semester 2		
DESA 3002	Design Practice 3B	12
DAAP 3002	Architectural Technologies	6
	Elective/Arch elective	6
	Total for Year 3	48

Bachelor of Design in Architecture (Urban Design and Planning)

Unit Code	Name	Credit points
Yearl		
Semester 1		
DESA 1001	Design Practice 1A	12
DESA 1101	Design Studies 1A	6
	Elective	6
Semester 2		
DESA 1002	Design Practice IB	12
DESA 1102	Design Studies IB	6
DESP 1001	Introductory Urban Design & Planning	6
	Total for Year 1	48
Year 2		
Semester 1		
DESA 2001	Design Practice 2A	12
DESA 2111	Design Studies 2	6
DESP 2001	Planning for the Public Domain	6
Semester 2		
DESA 2002	Design Practice 2B	12
DESP 2002	Planning for the Built Environment	6
	Elective/Arch elective	6
	Total for Year 2	48
Year 3		
Semester 1		
DESA 3001	Design Practice 3A	12
DAAP 3001	Contemporary Architecture & Theory	6
	Elective/Arch elective	6
Semester 2		
DESA 3002	Design Practice 3B	12
DAAP 3002	Architectural Technologies	6
	Elective/Arch elective	6
	Total for Year 3	48

Table A: Bachelor of Design in Architecture

Unit of Study		***CP***	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
Core units of study				
Candidates are required to complete all of the following core units.				
Junior units of study				
DESA 1001	Design Practice 1A	12	A HSC Mathematics, HSC English Standard. CDESA1101	Semester 1
DESA 1101	Design Studies 1A	6	A HSC Mathematics and HSC English Standard or equivalent. C DESA1001	Semester 1
DESA 1002	Design Practice IB	12	P DESA (1001 and 1101) CDESA1102	Semester 2
DESA 1102	Design Studies IB	6	P DESA (1001 and 1101) C DESA1002.	Semester 2
Senior units of study				
DESA 2001	Design Practice 2A	12	A DESA1101 and DESA1102. P DESA1001 and DESA1002. C DESA (2101 or 2111)	Semester 1
DESA 2111	Design Studies 2	6	PDESA1102 C DESA 2001 N May not be counted with DESA 2101	Semester 1
DESA 2002	Design Practice 2B	12	A DESA 1101 and DESA 1102. P DESA 2001 and either (DESA 2101 or 2111)	Semester 2
DESA 3001	Design Practice 3A	12	P DESA (2002 and (2101 or 2111)). C DESA 2302 or DAAP 3001	Semester 1
DESA 3002	Design Practice 3B	12	P DESA 3001. C DESA (2301 and 2303) or DAAP 3002.	Semester 2
Bachelor of Architecture Prerequisite units of study				
Candidates wishing to proceed to the Bachelor of Architecture are required to complete the following prerequisite units. These may also be used to count towards the Architecture Electives.				
Senior units of study				
DAAP 3001	Contemporary Architecture and Theory	6	C DESA 3001 N May not be counted with DESA 2302	Semester 1
DAAP 3002	Architectural Technologies	6	P DESA 3001 C DESA 3002 N May not be counted with DESA (2301 or 2303)	Semester 2
Architecture Electives				
All candidates are required to complete a minimum of 18 Senior credit points from the Architecture Electives. The units are grouped into sub-disciplines.				
Appropriate Sustainable Technologies				
Senior units of study				
DAAE 3001	Sustainable Architectural Practice	6	P DESA (2101 or 2111) N May not be counted with DESA (2202 or 2207 or 2201).	Semester 1
Architectural Design				
Senior units of study				
ARCH 6301	Design Studio Workshop A	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 1, Semester 2
ARCH 6302	Design Studio Workshop B	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 2, Semester 1
ARCH 6303	Design Studio Workshop C	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 1, Semester 2
ARCH 6304	Design Studio Workshop D	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 1, Semester 2
Architectural History and Theory				
Senior units of study				
DAAE 2001	20th Century Australian Architecture	6	N May not be counted with DESA 2305.	Semester 2
DAAP 3001	Contemporary Architecture and Theory	6	C DESA 3001 **N** May not be counted with DESA 2302	Semester 1

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
Environment, Behaviour & Society				
Senior units of study				
DAAE 2002	Architecture, Place and Society	6	**N** May not be counted with DESA 2211	Semester 1
DAAE 2003	Social Studies in Architecture	6	P DAAE 2002 or DESA 2211 N May not be counted with DESA 2212	Semester 2
DAAE 2004	Housing for Health	6	N May not be counted with DESA 2213 or 2214	Semester 1
DAAE 2005	Designing with Colour 1	6	A DESA 2612 or DESA 1004 N May not be counted with DESA 2610	Semester 1, Summer, Semester 2, Winter
DAAE 2006	Designing with Colour 2	6	P DAAE 2005 or DESA 2610 N May not be counted with DESA 2611	Summer, Semester 1, Semester 2, Winter
Management in Architecture				
Senior units of study				
DAAE 2007	Introduction to Project Management	6	N May not be counted with DESA 2208 or 2209.	Semester 2
DAAE 2008	Innovative Building Structures	6	P DESA (2101 or 2111) N May not be counted with DESA 2206.	Semester 2
DAAP 3002	Architectural Technologies	6	P DESA 3001 C DESA 3002 N May not be counted with DESA (2301 or 2303)	Semester 2
Streams				
It is not aL requirement to complete a stream. Candidates may complete a maximum of two streams within the 144cp degree total, and these will be recorded on the testamur.				
Allied Arts in Architecture Stream				
The minimum requirement is 18 credit points, including 12 credit points from the mandatory units of study and a minimum of 6 additional credit points, chosen from the following units of study. Candidates not enrolled in the Allied Arts in Architecture stream are restricted to a maximum of 18 credit points from AWSS units and are not required to complete the mandatory units.				
Mandatory units				
Senior units of study				
AWSS 2001	Public Art	6	N May not be counted with DESA 2618. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1
AWSS 2002	Site Specific Art	6	N DESA2619 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	SI Intensive, Semester 2
Additional Allied Arts in Architecture units				
Junior units of study				
AWSS 1001	Architectural Sketching and Drawing	6	N May not be counted with DESA 1601 or 1602 NB: Students may incur costs for materials in some Art Workshops units.	Semester 1
Senior units of study				
AWSS 2010	Ceramics (Handbuilding)	6	N May not be counted with DESA 2634 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2011	Ceramics (Wheel Throwing)	6	N May not be counted with DESA 2631. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2012	Ceramics 2	6	P DESA (2631 or 2634) or AWSS (2010 or 2011) **N** Mat not be counted with DESA 2644. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 2
AWSS 2013	Digital Video	6	N May not be counted with DESA 2632. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
AWSS **2014**	Printmaking	6	**N** May not be counted with DESA 2630 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2015	General Drawing	6	N May not be counted with DESA 2633 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2016	Graphic Design (Introduction)	6	N May not be counted with DESA 2637 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2018	Life Drawing	6	N May not be counted with DESA 2641. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2019	Mixed Media	6	NDESA2616. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS **2020**	Object Design	6	N DESA 2643 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2022	Painting	6	N May not be counted with DESA 2635 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2023	Photography 1	6	N May not be counted with DESA 2629. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2024	Photography 2	6	P AWSS 2023 or DESA 2629 or equivalent. Equivalence can be established by either presenting a portfolio of b&w photographic work or by presenting a transcript indicating a minimum of a full semester unit in b&w photography. N May not be counted with DESA 2642. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2025	Screen Printing on Fab		NB: ***'" No info available for 2006. ***	
AWSS **2026**	Screen Printing on Paper	6	N May not be counted with DESA 2638. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	SI Intensive, Semester 2
AWSS 2027	Sculpture	6	N May not be counted with DESA 2636 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2028	Web Art and Design	6	N May not be counted with DESA 2640. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 2
AWSS 2090	Advanced Art Studio	6	P Any AWSS unit with a result of Credit or better. N DESA2608 or 2609 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2

Digital Architecture Stream

The minimum requirement is 18 credit points from the following units of study. Candidates not enrolled in the Digital Architecture stream are restricted to a maximum of 18 credit points from DECO units.

Senior units of study

DECO 2101	Digital Image Design & Rep	6	**N** DECO (1001 or 1100) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.	Semester 1
DECO 2102	Interactive Multimedia Design	6	P DECO 2101 N DECO (1002 or 2002 or 1200) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.	Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DECO 2103	3D Modelling	6	**N** DECO 1008 NB: Department permission required for enrolment. Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.	Semester 2
DECO 2204	Principles of AutoCAD	6	N DESA 1202 or DESC (9101 or 9163) NB: Permission required unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 2
DECO 2205	Principles of ArchiCAD	6	N DESA 1201 or DESC (9100 or 9162) NB: Permission required unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 1

Urban Design and Planning Stream

The minimum requirement is 18 credit points from the following units of study.

Junior units of study

DESP 1001	Introductory Urban Design and Planning	6	NDESP1201.	Semester 2

Senior units of study

DESP 2001	Planning for the Public Domain	6	**N** DESP (2201 or 2203)	Semester 1
DESP 2002	Planning for the Built Environment	6	**N** DESP (2202 or 2204).	Semester 2

Elective units of study

A maximum of 18 credit points of elective units may be chosen from other faculties - see the relevant faculty handbook for details of units offered. Candidates who have passed 96 credit points with a Credit average may request permission to enrol in graduate units from Table G, the table of graduate units of study in this handbook.

Junior units of study

DESA 1004	Designing with Surfaces and Light	6	N May not be counted with DESA 2612.	Semester 1, Semester 2, Summer, Winter
DESA 1005	Mathematics and Science in Architecture	6	**N** May not be counted with DESA 2626.	Semester 1

Senior units of study

DECO 2010	Collaborative Virtual Environments	6	**P** DECO (1100 and 1200) or (2101 and 2102) or INFO (1000 or 1003) N DECO 2005. NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.	Semester 1
DECO 2011	Design Programming	6	**N** SOFT 1001	Semester 1
DECO 2012	Sound Design & Sonification	6	**N** DECO 2607. NB: Permission required unless enrolled in the Bachelor of Design Computing or the BST. Other students may apply directly to the Faculty of Architecture for a place. Enrolment limited by teaching resources.	Semester 2
DECO 2013	Generative Design Systems	6	P DECO 2011 or SOFT 1001 N DECO (2601 or 2602 or 2603) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.	Semester 2
DECO 2606	Real Time 3D Multimedia	6	**P** DECO (1008 or 2103) and (SOFT 1001 or DECO 2011) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 2
DECO 3003	Design Computing Research Opportunity	6	A Computer programming. P 96 credit points and minimum WAM of 65. NB: Department permission required for enrolment. Non Architecture students may apply directly to the Faculty of Architecture.	Semester 2
DECO 3005	Advanced Interactive Multimedia Design	6	**P** DECO (1200 or 2102) N DESC 9142. NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 1
DECO 3006	Principles of 3D Animation	6	**P** DECO (1008 or 2103) N DESC 9019 or 9141 NB: Department permission required for enrolment. First preference given to third year students in the Bachelor of Design Computing or the Bachelor of Science & Technology. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 1
DECO 3007	Designing Tangible Computing	6	**P** DECO (1200 or 2102) and (DECO 2011 or SOFT 1001) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
General Electives				
Senior units of study				
ARCH 3551	Architecture General Elective A	6	**P** 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 3552	Architecture General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 3553	Architecture General Elective C	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 3554	Architecture General Elective D	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DECO 3551	Design Computing General Elective A	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DECO 3552	Design Computing General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 2, Semester 1
DECO 3553	Design Computing General Elective C	6	P 48 credit points. NB: Department permission required for enrolment.	Semester 1, Semester 2
DECO 3554	Design Computing General Elective D	6	**P** 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3551	Design Architecture General Elective A	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3552	Design Architecture General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3553	Design Architecture General Elective C	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3554	Design Architecture General Elective D	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
Independent Study Electives				
Senior units of study				
ARCH 3441	Architecture Independent Study A	6	**P** 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
ARCH 3442	Architecture Independent Study B	6	P 48 credit points and a WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
ARCH 3443	Architecture Independent Study C	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
ARCH 3444	Architecture Independent Study D	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3441	Design Computing Independent Study A	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3442	Design Computing Independent Study B	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3443	Design Computing Independent Study C	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DECO 3444	Design Computing Independent Study D	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DESA 3441	Design Architecture Independent Study A	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DESA 3442	Design Architecture Independent Study B	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2

Unit	*of*	*Study*	*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DESA 3443	Design Architecture Independent Study C		6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DESA 3444	Design Architecture Independent Study D		6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2

Honours units of study

Candidates enrol in A and B in their first semester and C and D in their second semester.

ARCH 4003	Dissertation and Research Methods A		12	P Completion of the Pass degree with a WAM of at least 70. NB: Department permission required for enrolment. Bachelor of Design (Architecture) honours students only.	Semester 1, Semester 2
ARCH 4004	Dissertation and Research Methods B		12	C ARCH 4003	Semester 1, Semester 2
ARCH 4005	Dissertation and Research Methods C		12	C ARCH 4004	Semester 1, Semester 2
ARCH 4006	Dissertation and Research Methods D		12	C ARCH 4005	Semester 1, Semester 2

Bachelor of Design Computing

Design computing is broadly defined to be the use and development of computational models of design processes and digital media to assist and/or automate various aspects of the design process with the goal of producing higher quality and new design forms. In the Faculty of Architecture, we have a particular focus on computational models of form and function with an emphasis on the built environment. During the years design computing has evolved from a small research area in applied computer science and neighbouring disciplines into a separate interdisciplinary professional field, ready to produce its own specialists. Design computing involves profound understanding and effective application of digital media, communication and networking technologies, computer visualisation and graphics, data modelling, automation and integration in design. Design computing also provides a basis for studying formal methods of designing and their computational support. The future of design computing includes the design of cyberspace as an environment for professional collaboration, bringing the application of design computing from the design of physical objects to the design of virtual places. This new degree recognises the need for another kind of professional in the design professions: the design computing specialist.

The Bachelor of Design Computing provides undergraduate students with the opportunity to understand the various components of design computing, including digital design representations, computational modelling of design processes, computer programming, and computer-mediated collaborative design, and their integration in a design studio environment. This emphasis is unique in The University of Sydney. Graduates from the Bachelor of Design Computing would be sought after by: design firms developing digital models and presentations and design firms managing the integration of design information in distributed design organisations; consultants and start up companies developing the future virtual environments with an architectural perspective; and other design and architecture practices which use advanced computer support in their work.

Philosophy of the Bachelor of Design Computing

The world around us is increasingly being changed by design. Designers are the change agents of this world. At the same time the border of the world where we can design has been rapidly moving beyond what we call the physical world, or world of atomic structures, into what we label as the virtual world, or the world of digital structures. Digital computing provides both new concepts and technology that on the one hand is one of the drivers and facilitators of these changes, and, on the other hand, bridges the gap between these worlds.

Design Computing is the field that brings designing and computing together in a synergistic manner to allow new forms of designing and design to occur and to allow new designs to be produced. Design Computing provides the theoretical and practical support for designing in both the physical and virtual worlds.

The philosophy of this degree is to bring together three core concepts in design computing, united by the keyword "digital", allowing a student to specialise in one while being knowledgeable about the other two.

These core concepts are:

- Developing environments for designing digitally
- Designing digitally
- Interacting with designs digitally

Developing environments for designing digitally involves a conceptual and practical understanding of current digital technology for design and can lead to the development of new methods and techniques for designing, including languages of designing. Designing digitally requires knowledge of the various ways in which designs can be represented and generated. Interacting with designs digitally is a new area that involves knowledge of computer-mediated collaboration and how designers interact with and via different digital media. The concept of virtual architecture as either a simulation of the physical world or as a functional virtual world, brings these three core concepts together.

There are four knowledge areas of design computing that provide the basis for developing our philosophy of design computing:

Design Media and Representation
Considering the basics of different representations of design information from the perspective of computer modelling and manipulation. Topics include:

- Digital Image Representation and Design
- CAD Modelling and Electronic Design Documentation
- 3D Modelling and Photorealism
- Design Database Management
- Web-based Design Information Systems
- Interactive Multimedia Design

Computer Programming
Providing basic and advanced programming knowledge and skills for use in developing new applications and in augmenting existing applications. Topics include:

- Introduction to Programming
- User Interfaces for Designing
- Graphics Programming
- Systems Analysis and Design

Computational Models
Providing an understanding of the variety of computational models of design knowledge and design processes. Topics include:

- Understanding Design
- Knowledge Based Design
- Design Grammars
- Evolutionary Design

- Product Modelling
- Computer Supported Collaborative Design
- Virtual Architecture

Design
Providing experience and an understanding of the design process in a studio environment.

- Design Studio
- Design Computing Studio
- Virtual Design Studios

Bachelor of Design Computing enrolment guide

The Bachelor of Design Computing is a three year degree, or four years with honours. The first year introduces the concept of design, CAD, Web page design, and programming. These units form the basic knowledge needed for a broad range of design computing topics in second year, and the integrated design computing studio in the third year. The electives allow the student to develop additional skills and knowledge in design computing, computer science, architectural design, or engineering.

In order to qualify for the degree candidates must complete the requirements as specified in the Resolutions of the Senate and Faculty for this degree. All students should read the degree resolutions and monitor their progress throughout the degree by reference to them. The following points summarise the resolutions but do not replace them.

Summary of requirements
In order to qualify for the award of the pass degree candidates:

- must maintain a full-time enrolment (18 credit points or more per semester - a normal full-time load is 24 credit points per semester, the maximum allowed is 30 credit points per semester);
- must complete successfully 144 credit points;
- must complete successfully 96 credit points from the core units of study as described in Table B;
- must complete successfully at least 24 credit points from elective units of study from those listed in Table B;
- may complete no more than 24 credit points from units of study outside Table B;
- may, with the permission of the unit coordinator concerned, enrol in elective units of study from Table G, the Faculty's table of graduate units, provided they have completed at least 96 credit points with a WAM of at least 70.

Honours
In order to qualify for the honours degree candidates must satisfy the requirements for the pass degree with a Weighted Average Mark of at least 70 and in addition successfully complete 48 credit points consisting of a research thesis. In their third years students would normally enrol in the preparatory unit of study as an elective. Honours may only be undertaken on a full-time basis.

Transition to 6 credit point units and new resolutions
Candidates enrolling for the first time in 2005 should use this handbook and the enrolment guide to complete their degrees. The degree resolutions are printed in chapter four of this handbook.

Candidates who first enrolled in or before 2004 should use this handbook to select the remaining core and elective units required for their degree. There has been no significant change to the degree requirements; however, the units of study available have been converted to 6 credit points. If you have failed one or more core units of study you should seek advice from the Program Coordinator, Professor Mary Lou Maher to choose a suitable replacement unit of study.

Candidates who have already completed electives published in Table B in previous years will still be allowed to count those units into their Table B requirements.

Planning your degree
The program has been designed so that the core units should be taken in a certain order and the elective units fitted with them. An enrolment planner for the degree follows.

Bachelor of Design Computing

Unit Code	Name	Credit points
Yearl		
Semester 1		
DECO 1006	Understanding Design and Cognition	6
DECO 1007	Design Data Mgmt and Product Modelling	6
DECO 1100	Digital Design Studio	12
Semester 2		
DECO 1005	Hist and Theory of Multimedia and Animation	6
DECO 1008	3D modelling	6
DECO 1200	Interaction Design Studio	12
	Total for Year 1	48
Year 2		
Semester 1		
DECO 2010	Collaborative Virtual Environments	6
DECO 2011	Design Programming	6
	Electives	12
Semester 2		
DECO 2012	Sound Design and Sonification	6
DECO 2013	Generative Design Systems	6
	Electives	12
	Total for Year 2	48
Year 3		
Semester 1		
DECO 3100	Information Visualisation Design Studio	12
	Electives	12
Semester 2		
DECO 3200	Human-Computer Experience Design Studio	12
	Electives	12
	Total for Year 3	48

Table B: Bachelor of Design Computing

Unit of Study		***CP***	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
Core units of study				
Candidates are required to complete all the core units of s;tudy listed in this table.				
Junior units of study				
DECO 1005	Hist & Theory of Multimedia & Animation	6	N DECO 2605	Semester 2
DECO 1006	Understanding Design & Cognition	6	N DECO 1004	Semester 1
DECO 1007	Design Data Mgmt & Product Modelling	6	N DECO 2004, INFO 2005.	Semester 1
DECO 1008	3D Modelling	6	N DECO 2103 NB: This unit is for BDesComp students only. Others may enrol in DECO 2103.	Semester 2
DECO 1100	Digital Design Studio	12	N DECO 1011 NB: Core unit for Bachelor of Design Computing Students only.	Semester 1
DECO 1200	Interaction Design Studio	12	P DECO (1100 or 2101) N DECO 1021 NB: Available for BDesComp and BST students only.	Semester 2
Senior units of study				
DECO **2010**	Collaborative Virtual Environments	6	**P** DECO (1100 and 1200) or (2101 and 2102) or INFO (1000 or 1003) N DECO 2005. NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.	Semester 1
DECO **2011**	Design Programming	6	**N** SOFT 1001	Semester 1
DECO **2012**	Sound Design & Sonification	6	**N** DECO 2607. NB: Permission required unless enrolled in the Bachelor of Design Computing or the BST. Other students may apply directly to the Faculty of Architecture for a place. Enrolment limited by teaching resources.	Semester 2
DECO **2013**	Generative Design Systems	6	**P** DECO 2011 or SOFT 1001 N DECO (2601 or 2602 or 2603) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.	Semester 2
DECO **3100**	Information Visualisation Design Studio	12	**P** DECO (1100 and 1200) or DECO (2101 and 2102) N DECO 3001 NB: BDesComp and BST students only.	Semester 1
DECO **3200**	Human-Computer Experience Des Stdo	12	**P** DECO 3100 or DECO (2101 and 2102 and (DECO 2011 or SOFT 1001)) N DECO 3002. NB: BDesComp and BST students only.	Semester 2
Elective units of study				
Candidates are required to complete at least 24 credit points from the elective units of study listed in this table. The units are grouped into sub-disciplines. Candidates for the honours degree should included DECO 3008. Elective units may be chosen from other faculties - see the relevant faculty handbook for details of units offered. Candidates who have passed 96 credit points with a Credit average may request permission to enrol in graduate units from Table G, the table of graduate units of study in this handbook.				
Design Computing				
Senior units of study				
DECO 2606	Real Time 3D Multimedia	6	P DECO (1008 or 2103) and (SOFT 1001 or DECO 2011) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 2
DECO 3003	Design Computing Research Opportunity	6	A Computer programming. P 96 credit points and minimum WAM of 65. NB: Department permission required for enrolment. Non Architecture students may apply directly to the Faculty of Architecture.	Semester 2
DECO 3005	Advanced Interactive Multimedia Design	6	P DECO (1200 or 2102) NDESC9142. NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 1
DECO 3006	Principles of 3D Animation	6	P DECO (1008 or 2103) NDESC 9019 or 9141 NB: Department permission required for enrolment. First preference given to third year students in the Bachelor of Design Computing or the Bachelor of Science & Technology. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 1
DECO 3007	Designing Tangible Computing	6	P DECO (1200 or 2102) and (DECO 2011 or SOFT 1001) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DECO 3008	Design Computing Prep Hons Research	6	P 72 credit points and minimum WAM of 70 N DECO 2604. NB: Department permission required for enrolment.	Semester 1

Allied Arts in Architecture

Junior units of study				
AWSS 1001	Architectural Sketching and Drawing	6	N May not be counted with DESA 1601 or 1602 NB: Students may incur costs for materials in some Art Workshops units.	Semester 1
Senior units of study				
AWSS 2001	Public Art	6	N May not be counted with DESA 2618. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1
AWSS 2002	Site Specific Art	6	NDESA2619 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	SI Intensive, Semester 2
AWSS 2010	Ceramics (Handbuilding)	6	N May not be counted with DESA 2634 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2011	Ceramics (Wheel Throwing)	6	N May not be counted with DESA 2631. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS **2012**	Ceramics 2	6	P DESA (2631 or 2634) or AWSS (2010 or 2011) **N** Mat not be counted with DESA 2644. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 2
AWSS 2013	Digital Video	6	N May not be counted with DESA 2632. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2014	Printmaking	6	N May not be counted with DESA 2630 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2015	General Drawing	6	N May not be counted with DESA 2633 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2016	Graphic Design (Introduction)	6	N May not be counted with DESA 2637 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2018	Life Drawing	6	N May not be counted with DESA 2641. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2019	Mixed Media	6	NDESA2616. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2020	Object Design	6	N DESA 2643 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2022	Painting	6	N May not be counted with DESA 2635 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2023	Photography 1	6	N May not be counted with DESA 2629. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS **2024**	Photography 2	6	P AWSS 2023 or DESA 2629 or equivalent. Equivalence can be established by either presenting a portfolio of b&w photographic work or by presenting a transcript indicating a minimum of a full semester unit in b&w photography. N May not be counted with DESA 2642. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS **2025**	Screen Printing on Fab		NB: * * * No info available for 2006. * * *	

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
AWSS 2026	Screen Printing on Paper	6	N May not be counted with DESA 2638. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	SI Intensive, Semester 2
AWSS 2027	Sculpture	6	N May not be counted with DESA 2636 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2028	Web Art and Design	6	N May not be counted with DESA 2640. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 2
AWSS 2090	Advanced Art Studio	6	P Any AWSS unit with a result of Credit or better. **N** DESA2608 or 2609 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2

Design Architecture Electives

Junior units of study

DESA 1004	Designing with Surfaces and Light	6	N May not be counted with DESA 2612.	Semester 1, Semester 2, Summer, Winter

Senior units of study

DAAE 2005	Designing with Colour 1	6	A DESA 2612 or DESA 1004 N May not be counted with DESA 2610	Semester 1, Summer, Semester 2, Winter
DAAE 2006	Designing with Colour 2	6	P DAAE 2005 or DESA 2610 N May not be counted with DESA 2611	Summer, Semester 1, Semester 2, Winter

Information Technology Electives

Junior units of study

SOFT 1001	Software Development 1	6	A HSC Mathematics Extension 1 N May not be counted with SOFT 1901 or COMP (1001 or 1901)	Semester 1, Semester 2
SOFT 1002	Software Development 2	6	P SOFT (1001 or 1901) or COMP (1001 or 1901) N May not be counted with SOFT 1902 or COMP (1002 or 1902) or DECO2011 NB: Students with Credit or above in INFO 1903 are encouraged to request special permission to enter this unit.	Semester 1, Semester 2, Summer

Senior units of study

SOFT 2130	Software Construction 1	6	P SOFT (1002 or 1902) or COMP (1002 or 1902) N COMP (2004 or 2904) or SOFT (2904 or 2004 or 2830). NB: Students with Distinction or above in INFO 1903 are encouraged to request special permission to enter this unit.	Semester 2, Summer
INFO 2110	Systems Analysis and Modelling	6	A Simple data modelling and simple SQL knowledge covered at ISYS1003 or INFO1000 level P (INFO(1003 or 1903 or 1000) or ISYS1003 or INFS1000 or SOFT(1001 or 1901) or COMP(1001 or 1901) or 6 credit points of COSC units of study of DECO2011. N INFO (2000 or 2810 or 2900)	Semester 1, Summer
INFO 2120	Database Systems 1	6	P INFO(1003 or 1903 or 1000) or ISYS1003 or INFS1000 •or SOFT(1001 or 1901) or COMP(1001 or 1901) or (6 credit points of COSC) or DECO2011 N INFO (2005 or 2820 or 2905).	Semester 2
ISYS 2140	Information Systems	6	A Understanding of the roles and functions of information technology tools for document processing, modelling, database management etc. Experience in the use of these tools to solve practical problems and to present the results effectively. Awareness of the main concepts of programming and of a program running in a computer (a process) P INFO(1003 or 1903 or 1000) or ISYS1003 or INFS1000. N ISYS (2006 or 2007)	Semester 1

General Electives

Senior units of study

DECO 3551	Design Computing General Elective A	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DECO 3552	Design Computing General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 2, Semester 1
DECO 3553	Design Computing General Elective C	6	P 48 credit points. NB: Department permission required for enrolment.	Semester 1, Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DECO 3554	Design Computing General Elective D	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2

Independent Study Electives

Senior units of study

DECO 3441	Design Computing Independent Study A	6	**P** 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3442	Design Computing Independent Study B	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3443	Design Computing Independent Study C	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DECO 3444	Design Computing Independent Study D	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1

Honours units of study

Candidates enrol in A and B in their first semester and C and D in their second semester.

DECO 4001	Design Computing Honours Research A	12	P Completion of the Pass degree. Students in the Bachelor of Design Computing will require a WAM of at least 70. NB: Department permission required for enrolment. Students in the Faculty of Science should apply for honours to their own faculty office.	Semester 1, Semester 2
DECO 4002	Design Computing Honours Research B	12	C DECO 4001	Semester 1, Semester 2
DECO 4003	Design Computing Honours Research C	12	C DECO 4002	Semester 1, Semester 2
DECO 4004	Design Computing Honours Research D	12	C DECO 4003	Semester 1, Semester 2

Bachelor of Architecture

Aims of the BArch

The basic aims of the professional Bachelor of Architecture program are to provide the knowledge, skills and experience that will equip the graduate to be an architect. The practice of architecture today is, however, extraordinarily diverse and complex and no course could provide training in depth for all areas of practice. It is therefore essential that students obtain from the course a firm grounding in fundamentals, an ability to think creatively and logically, and a capacity to explore for themselves those areas they wish to pursue in detail.

Objectives of the Bachelor of Architecture

Each architecture program has a particular bias or emphasis, within the guidelines for professional accreditation, based on the interests and strengths of the staff and departments and their vision for the future.

The program will enable:

- the student to gain the necessary knowledge and skills to become an architect, noting the increasing complexity and diversity of the architect's role.
- the satisfaction, where possible, of the demands of the professional and statutory bodies for entry to the professional institute and to qualify for registration, with minimal additional examination, in the context of academic independence in the judgements it makes on the education it provides.
- the student to experience a range of attitudes and philosophies relating to architecture.
- the student to be exposed to and acquire a range of knowledge which is expected to result in graduates who can provide the community with the highest quality of architecture, including to be able to think clearly and be able to make reasoned judgements by having:

1. An understanding of and experience in architectural design;
2. A knowledge of the history of architecture;
3. A knowledge of theories of architecture;
4. A knowledge of the materials, construction practices and production methods which are essential to architecture;
5. The ability to absorb and interpret the needs of society and its peoples in relation to the built environment;
6. A basic understanding of those technical fields which contribute to architecture;
7. An understanding of the legal and professional responsibilities of practice as an architect; and
8. The ability to communicate clearly by oral, written and graphic means, and to organise and manage those aspects of the design and construction of a building which are the responsibilities of the architect.

Admission

The Resolutions of the Faculty (chapter four of this book) specify the conditions of admission to the degree. In summary, an applicant for admission to the Bachelor of Architecture must:

- either complete the Bachelor of Design in Architecture, the Bachelor of Science (Architecture), or an equivalent degree;
- apply within six years of completion of the first degree.
- have completed the Bachelor of Architecture prerequisite units of study in their first degree, if proceeding from the Bachelor of Design in Architecture or the Bachelor of Science (Architecture);
- have completed the Architectural Experience Requirement by completing the Bachelor of Design in Architecture or the Bachelor of Science (Architecture) with Honours or by one or more of the following:

1. Professional work experience as an employee in architecture (minimum of 18 weeks recorded in the Architects Accreditation Council of Australia (AACA) Log Book);
2. Field study in relation to architecture (including, but not limited to, international field study);
3. Professional work experience in a related industry (minimum of 18 weeks appropriately recorded);
4. Study at an Australian or overseas tertiary institution in a relevant discipline; or
5. A combination of methods (l)-(4) above.

Students may apply to commence study in the BArch program in either Semester 1 or 2.

Bachelor of Architecture enrolment guide

The Bachelor of Architecture is a two year degree and students with a sufficient WAM who complete the Preparatory Advanced Study Report and the Advanced Study Report may graduate with honours in the same timeframe. In order to qualify for the degree candidates must complete the requirements as specified in the resolutions of the Senate and Faculty for this degree (see chapter four). All students should read the degree resolutions and monitor their progress throughout the degree by reference to them. The following points summarise the resolutions but do not replace them.

Summary of requirements

In order to qualify for the award of the pass degree candidates:

- must maintain a full-time enrolment (18 credit points or more per semester - a normal full-time load is 24 credit points per semester, the maximum allowed is 30 credit points per semester);
- must complete successfully 96 credit points;
- must complete successfully 78 credit points from the core units of study as described in Table C;
- must complete successfully 18 credit points from elective units of study from those listed in Table C and/or from the Table of Graduate units of study in the Faculty of Architecture.

Honours degree

Honours are determined by the Board of Undergraduate Studies based on the student's performance in the 96 credit points of the degree. The Weighted Average Mark is used as the basis for assessment. To be eligible for the award of honours a student must complete the units ARCF 4201 Preparatory ASR and ARCF 5301 Advanced Study Report, wherein the student demonstrates an ability to undertake individual research and its documentation, as well as have an overall Weighted Average Mark of 70. Honours is awarded in two classes: Class I, and Class II (with Divisions 1 and 2).

Transition to six credit point units and new resolutions

Candidates enrolling for the first time in 2005 should use this handbook and the enrolment guide to complete their degrees. The degree resolutions are printed in chapter four of this handbook.

Candidates who first enrolled in or before 2004 should use the 2004 handbook to select core units of study. The degree resolutions are printed in chapter four of the 2004 handbook. When selecting elective units of study, you may choose either 4 or 6 credit point versions (subject to availability), whichever allow you to complete your degree with exactly 96 credit points.

Architectural design

An important aspect of becoming an architect is the cultivation of the imagination and independent thought combined with competence in action. The design units take this into account and these units are intended to emphasise the importance of people, purpose, place, environment and expression in the design of the built environment.

The design units take into account the growing importance of the city, as a place of home and work, and the need to reinterpret the metropolis in the context of globalisation and environmental issues. The design of civic as well as institutional and commercial buildings and spaces, understanding and interpreting place in the city fabric, as well as the way people in this region might live in the future, are significant design issues. The BArch program recognises that students need to develop their own ethical position, and provides opportunities through the units of study to do so.

Students are required to take four semesters of design in the BArch units offered in Semester one are vertically integrated so that fourth and fifth year students have the opportunity to work with, and learn from, each other. These units will provide choice of project and teacher, and a range of design issues for exploration. Units offered in the July semester have a professional orientation, and will be integrated with technical units. In this way the constraints and challenges of practice are replicated, and learning is facilitated by case study and problem based learning. These units will help develop professional skills, knowledge and understanding. The open studios in Semester one will focus more on the development of creative thinking, design ideas and philosophies, but will at all times offer options that deal with clients, communities, and professional issues.

In all design units it is assumed that precedent is studied so as to better establish an understanding of building types and their users.

Planning your degree

The program has been designed so that some core units should be taken in a certain order and the remaining core and elective units fitted with them. An enrolment planner for the degree follows.

Bachelor of Architecture enrolment planner

Subject area	*Credit points shown in brackets*					
					Floating	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 1 or 3	Semester 2 or 4
Design • 36 credit points •37.5%ofBArch • 46% of mandatory credit points	**ARCH 4101** Architectural Design Studio A (6)	**ARCH 4201** Architectural Design Studio B(6)	**ARCH 5101** Architectural Design Studio C(6)	**ARCH 5201** Architectural Design Studio D (12)	**ARCH 6301** Design Studio Workshop A (6) Semester 1, 2, 3 or 4	
Architectural Science and Technology • 18 credit points •19%ofBArch • 23% of mandatory credit points		**ARCH 4202** Design Technology 1 (6) **ARCH 4203** Architectural Structures and Materials (6)		**ARCH 5202** Design Technology 2(6)		
Cultural Studies • 12 credit points •12.5%ofBArch • 15% of mandatory credit points	**ARCH 4102** Architecture in the 20th Century (6)				**ARCH 6104** Theory in Architecture (6)	
Professional Practice • 12 credit points •12.5%ofBArch • 15% of mandatory credit points	**ARCH 4103** Contract Documentation (6)					**ARCH 6201** Management in Architecture (6)
Mandatory credit points:	18	18	6	18		
Electives • 18 credit points •19%ofBArch		**ARCF 4201** Preparatory Advanced Study Report (6)	**ARCF 5301** Advanced Study Report (6) (Semester 3 or 4)			**ARCH 6105** Studies in Innovative Construction (6)

Table C: Bachelor of Architecture

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
Core units of study				
Candidates are required to complete the following core units of study.				
Senior units of study				
ARCH 4101	Architectural Design Studio A	6	C ARCH (4102 and 4103) N May not be counted with ARCH 2106	Semester 1
ARCH 4102	Architecture in the 20th Century	6	N May not be counted with ARCH 2104.	Semester 1
ARCH 4103	Contract Documentation	6	C ARCH 4101 and 4102. N May not be counted with ARCH 2105.	Semester 1
ARCH 4201	Architectural Design Studio B	6	C ARCH 4202 and 4203. N May not be counted with ARCH 2107	Semester 2
ARCH 4202	Design Technology 1	6	C ARCH (4201 and 4203) N May not be counted with ARCH 2103.	Semester 2
ARCH 4203	Architectural Structures and Materials	6	C ARCH (4201 and 4202) N May not be counted with DESC 2102	Semester 2
ARCH 5101	Architectural Design Studio C	6	PARCH 4201 N May not be counted with ARCH 3104	Semester 1
ARCH 5201	Architectural Design Studio D	12	PARCH 4201 **C** ARCH 5202 N May not be counted with ARCH 3105	Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
ARCH 5202	Design Technology 2	6	PARCH 4202 C ARCH 5201 N May not be counted with ARCH 3102 or DESC 2101	Semester 2
ARCH 6104	Theory in Architecture	6	N May not be counted with ARCH 2102	Semester 1
ARCH 6201	Management in Architecture	6	PARCH 4103 N May not be counted with ARCH 3106 or 3107	Semester 2

Architectural Design Workshop

Candidates are required to complete at least one Architectural Design Workshop unit of study.

Senior units of study

ARCH 6301	Design Studio Workshop A	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 1, Semester 2
ARCH 6302	Design Studio Workshop B	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 2, Semester 1
ARCH 6303	Design Studio Workshop C	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 1, Semester 2
ARCH 6304	Design Studio Workshop D	6	NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.	Semester 1, Semester 2

Elective units of study

Candidates are required to complete 18 credit points from the elective units listed in this table. Graduate units of study may be included with the permission of the unit coordinator concerned. Candidates intending to graduate with Honours should include ARCF 4201 and ARCF 5301 in their program. The units are grouped into sub-disciplines.

Bachelor of Architecture Electives

This elective is available only to Bachelor of Architecture students.

Senior units of study

ARCH 6105	Studies in Innovative Construction	6	N May not be counted with ARCH 6096.	Semester 2

Allied Arts in Architecture

Senior units of study

AWSS 2001	Public Art	6	N May not be counted with DESA 2618. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1
AWSS 2002	Site Specific Art	6	NDESA2619 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	SI Intensive, Semester 2
AWSS 2010	Ceramics (Handbuilding)	6	N May not be counted with DESA 2634 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2011	Ceramics (Wheel Throwing)	6	N May not be counted with DESA 2631. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2012	Ceramics 2	6	P DESA (2631 or 2634) or AWSS (2010 or 2011) **N** Mat not be counted with DESA 2644. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 2
AWSS 2013	Digital Video	6	N May not be counted with DESA 2632. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2014	Printmaking	6	N May not be counted with DESA 2630 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2015	General Drawing	6	N May not be counted with DESA 2633 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
AWSS 2016	Graphic Design (Introduction)	**6**	**N** May not be counted with DESA 2637 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2018	Life Drawing	**6**	N May not be counted with DESA 2641. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2019	Mixed Media	**6**	NDESA2616. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2020	Object Design	**6**	N DESA 2643 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2022	Painting	**6**	N May not be counted with DESA 2635 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2023	Photography 1	**6**	N May not be counted with DESA 2629. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2024	Photography 2	6	P AWSS 2023 or DESA 2629 or equivalent. Equivalence can be established by either presenting a portfolio of b&w photographic work or by presenting a transcript indicating a minimum of a full semester unit in b&w photography. N May not be counted with DESA 2642. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2025	Screen Printing on Fab		NB: *** No info available for 2006. ***	
AWSS 2026	Screen Printing on Paper	6	N May not be counted with DESA 2638. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	SI Intensive, Semester 2
AWSS 2027	Sculpture	6	N May not be counted with DESA 2636 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2
AWSS 2028	Web Art and Design	6	N May not be counted with DESA 2640. NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 2
AWSS 2090	Advanced Art Studio	6	P Any AWSS unit with a result of Credit or better. **N** DESA2608 or 2609 NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.	Semester 1, Semester 2

Appropriate Sustainable Technologies

Senior units of study

DAAE 3001	Sustainable Architectural Practice	6	**P** DESA (2101 or 2111) N May not be counted with DESA (2202 or 2207 or 2201).	Semester 1

Architectural History and Theory

Senior units of study

DAAE 2001	20th Century Australian Architecture	6	N May not be counted with DESA 2305.	Semester 2

Environment, Behaviour & Society

Senior units of study

DAAE 2002	Architecture, Place and Society	6	N May not be counted with DESA 2211	Semester 1
DAAE 2003	Social Studies in Architecture	6	P DAAE 2002 or DESA 2211 N May not be counted with DESA 2212	Semester 2
DAAE 2004	Housing for Health	6	N May not be counted with DESA 2213 or 2214	Semester 1
DAAE 2005	Designing with Colour 1	6	A DESA 2612 or DESA 1004 **N** May not be counted with DESA 2610	Semester 1, Summer, Semester 2, Winter

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DAAE 2006	Designing with Colour 2	6	**P** DAAE 2005 or DESA 2610 N May not be counted with DESA 2611	Summer, Semester 1, Semester 2, Winter

Management in Architecture

Senior units of study

DAAE 2007	Introduction to Project Management	6	**N** May not be counted with DESA 2208 or 2209.	Semester 2
DAAE 2008	Innovative Building Structures	6	P DESA (2101 or 2111) N May not be counted with DESA 2206.	Semester 2

Urban Design and Planning

Senior units of study

DESP 2001	Planning for the Public Domain	6	N DESP (2201 or 2203)	Semester 1
DESP 2002	Planning for the Built Environment	6	N DESP (2202 or 2204).	Semester 2

Design Computing

Senior units of study

DECO 2010	Collaborative Virtual Environments	6	**P** DECO (1100 and 1200) or (2101 and 2102) or INFO (1000 or 1003) N DECO 2005. NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.	Semester 1
DECO 2011	Design Programming	6	**N** SOFT 1001	Semester 1
DECO 2012	Sound Design & Sonification	6	**N** DECO 2607. NB: Permission required unless enrolled in the Bachelor of Design Computing or the BST. Other students may apply directly to the Faculty of Architecture for a place. Enrolment limited by teaching resources.	Semester 2
DECO 2013	Generative Design Systems	6	P DECO 2011 or SOFT 1001 N DECO (2601 or 2602 or 2603) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.	Semester 2
DECO 2101	Digital Image Design & Rep	6	**N** DECO (1001 or 1100) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.	Semester 1
DECO 2102	Interactive Multimedia Design	6	P DECO 2101 N DECO (1002 or 2002 or 1200) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.	Semester 2
DECO 2103	3D Modelling	6	NDECO1008 NB: Department permission required for enrolment. Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.	Semester 2
DECO 2204	Principles of AutoCAD	6	**N** DESA 1202 or DESC (9101 or 9163) NB: Permission required unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 2
DECO 2205	Principles of ArchiCAD	6	**N** DESA 1201 or DESC (9100 or 9162) NB: Permission required unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 1
DECO 2606	Real Time 3D Multimedia	6	**P** DECO (1008 or 2103) and (SOFT 1001 or DECO 2011) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 2
DECO 3003	Design Computing Research Opportunity	6	A Computer programming. P 96 credit points and minimum WAM of 65. NB: Department permission required for enrolment. Non Architecture students may apply directly to the Faculty of Architecture.	Semester 2
DECO 3005	Advanced Interactive Multimedia Design	6	**P** DECO (1200 or 2102) N DESC 9142. NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 1

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DECO 3006	Principles of 3D Animation	6	**P** DECO (1008 or 2103) NDESC 9019 or 9141 NB: Department permission required for enrolment. First preference given to third year students in the Bachelor of Design Computing or the Bachelor of Science & Technology. Other students may apply directly to the Faculty of Architecture on a quota basis.	Semester 1
DECO 3007	Designing Tangible Computing	6	P DECO (1200 or 2102) and (DECO 2011 or SOFT 1001) NB: Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.	Semester 2

General Electives

Senior units of study

ARCH 3551	Architecture General Elective A	6	**P** 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 3552	Architecture General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 3553	Architecture General Elective C	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 3554	Architecture General Elective D	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DECO 3551	Design Computing General Elective A	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DECO 3552	Design Computing General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 2, Semester 1
DECO 3553	Design Computing General Elective C	6	P 48 credit points. NB: Department permission required for enrolment.	Semester 1, Semester 2
DECO 3554	Design Computing General Elective D	6	**P** 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3551	Design Architecture General Elective A	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3552	Design Architecture General Elective B	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3553	Design Architecture General Elective C	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2
DESA 3554	Design Architecture General Elective D	6	P 48 credit points. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.	Semester 1, Semester 2

Independent Study Electives

Senior units of study

ARCH 3441	Architecture Independent Study A	6	**P** 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
ARCH 3442	Architecture Independent Study B	6	P 48 credit points and a WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
ARCH 3443	Architecture Independent Study C	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
ARCH 3444	Architecture Independent Study D	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3441	Design Computing Independent Study A	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3442	Design Computing Independent Study B	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DECO 3443	Design Computing Independent Study C	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DECO 3444	Design Computing Independent Study D	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DESA 3441	Design Architecture Independent Study A	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DESA 3442	Design Architecture Independent Study B	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2
DESA 3443	Design Architecture Independent Study C	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 2, Semester 1
DESA 3444	Design Architecture Independent Study D	6	P 48 credit points and WAM of at least 70. NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.	Semester 1, Semester 2

Honours units of study

ARCF 4201	Preparatory Advanced Study Report	6	**N** May not be counted with ARCF 6002 or 6003.	Semester 2
ARCF 5301	Advanced Study Report	6	**P** ARCF 4201 and a WAM of at least 65. N May not be counted with ARCF 6002 or 6003. NB: To qualify for Honours in the BArch students must achieve a WAM of at least 70 in all units attempted, including Honours 1 & 2. First class honours requires a WAM of at least 75.	Semester 1, Semester 2

3. Undergraduate units of study

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Undergraduate units of study

ARCF 4201 **Preparatory Advanced Study Report**
6 credit points. B Arch. Glen Hill. **Session:** Semester 2. **Prohibitions:** May not be counted with ARCF 6002 or 6003.. **Assessment:** Development of a research question, writing a literature review, preparing a research proposal and report on results of initial research.
Aims
Honours 1 is the first of two units of study (the second being Honours 2) that together allow BArch students to explore and research an area of architectural study in depth. Areas of research might include:
- research by design,
- research by art practice,
- architectural history and/or theory research,
- architectural science research,
- design computing research, or
- urban design or planning research.

Objectives
Honours 1 is intended to equip BArch students with the research skills necessary to articulate a research question, review relevant literature, develop a research proposal, and, with individual supervison, carry out preparatory exploration of their subject area, as the basis for undertaking Honours 2 in which students pursue and present the outcomes of their individual research.
As part of Honours 1, students will be required to develop a research question, prepare a review of the literature relating to their research question, prepare a research proposal and report on their initial exploration of their chosen topic.

Generic attributes developed in this UoS
-Research and Inquiry. Students will learn techniques of research first hand through pursuing their own independent research project
-Information Literacy. Students will learn to locate available information efficiently and effectively, and to use this information in critical thinking, making informed judgements, solving problem, and in constructing knowledge and arguments in relation to their own research projects
-Personal and Intellectual Autonomy. Individual research projects promote independent judgement as to the appropriateness and significance of material selected, and its connections to a wider intellectual context.
-Communication. Students will practice use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding in the process of developing and presenting their research project.

Contribution of UoS to program
BArch elective (necessary for honours consideration)

Student effort expected
-Contact hours: 4hours./per week for 8 weeks
-Class preparation: 3hrs/wk
-Assessment preparation: 60hrs/semester

ARCF 5301 **Advanced Study Report**
6 credit points. B Arch. Glen Hill. **Session:** Semester 1, Semester 2. **Prerequisites:** ARCF 4201 and a WAM of at least 65. **Prohibitions:** May not be counted with ARCF 6002 or 6003.. **Assessment:** Dissertation, design project presented with supporting text, art project presented with supporting text or other by formal agreement.
NB: To qualify for Honours in the BArch students must achieve a WAM of at least 70 in all units attempted, including Honours 1 & 2. First class honours requires a WAM of at least 75.
Aims
Honours 2 is the second of two units of study (the first being Honours 1), that together allow BArch students to explore and research an area of architectural study in depth. Areas of research might include:
- research by design,
- research by art practice,
- architectural history and/or theory research,
- architectural science research,
- design computing research, or
- urban design or planning research.

Objectives
Building upon the initial topic exploration undertaken in Honours 1, Honours 2 facilitates students completing their research under the direction of their individual supervisor.
The outcome of the research is presented for assessment in a form appropriate to the research topic (which might include, but not be limited to, a short dissertation, or a design or art project presented with supporting text.)

Generic attributes developed in this UoS
- Research and Inquiry. Students will learn techniques of research first hand through pursuing their own independent research project
- Information Literacy. Students will learn to locate available information efficiently and effectively, and to use this information in critical thinking, making informed judgements, solving problem, and in constructing knowledge and arguments in relation to their own research projects
- Personal and Intellectual Autonomy. Individual research projects promote independent judgement as to the appropriateness and significance of material selected, and its connections to a wider intellectual context.
- Communication. Students will practice use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding in the process of developing and presenting their research project.

Student effort expected
- Contact hours: .0.5hours./per week with individual supervisor
- Assessment preparation: lO.hrs/week

ARCH 3441 **Architecture Independent Study A**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives:
- To provide an opportunity to high achieving students to develop interest in a specific Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.

Description:
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes:
- *A* reflective report on a selected topic demonstrating mastery of the topic.

ARCH 3442 **Architecture Independent Study B**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and a WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.

Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

ARCH 3443 **Architecture Independent Study C**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.

Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- A reflective report on a selected topic demonstrating mastery of the topic.

ARCH 3444 **Architecture Independent Study D**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.

Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- A reflective report on a selected topic demonstrating mastery of the topic.

ARCH 3551 **Architecture General Elective A**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

ARCH 3552 **Architecture General Elective B**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

ARCH 3553 **Architecture General Elective C**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites: 48** credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

ARCH 3554 **Architecture General Elective D**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

ARCH 4003 **Dissertation and Research Methods A**
12 credit points. B Des (Hons), B Des Arch (Hons). **Session:** Semester 1, Semester 2. **Prerequisites:** Completion of the Pass degree with a WAM of at least 70.
NB: Department permission required for enrolment. Bachelor of Design (Architecture) honours students only.
Students must submit an Honours application form. Entry into Honours in the Bachelor of Design (Architecture) requires you to have completed your pass degree with a Weighted Average Mark of at least 70.
Students enrol into 48 credit points by taking Dissertation and Research Methods A and B in the first semester and C and D in the second semester.

ARCH 4004 **Dissertation and Research Methods B**
12 credit points. B Des (Hons), B Des Arch (Hons). **Session:** Semester 1, Semester 2. **Corequisites:** ARCH 4003.
Bachelor of Design (Architecture) Honours.

ARCH 4005 **Dissertation and Research Methods C**
12 credit points. B Des (Hons), B Des Arch (Hons). **Session:** Semester 1, Semester 2. **Corequisites:** ARCH 4004.
Bachelor of Design (Architecture) Honours

ARCH 4006 **Dissertation and Research Methods D**
12 credit points. B Des (Hons), B Des Arch (Hons). **Session:** Semester 1, Semester 2. **Corequisites:** ARCH 4005.
Bachelor of Design (Architecture) Honours

ARCH 4101 **Architectural Design Studio A**
6 credit points. B Arch. Dr Peter Armstrong. **Session:** Semester 1. **Corequisites: ARCH (4102** and **4103). Prohibitions:** May not be counted with ARCH 2106. **Assessment:** 1. Attendance2. Tutorial participation, including staged exercises3. Submission and presentation of developed design.
Aims
Architectural projects offered by Faculty staff and visiting design practitioners will introduce students to a range of design issues and ideas, drawing on contemporary theory and practice. At the conclusion students will have worked closely with a tutor on a unique project, absorbing the key issues informing the project and demonstrating an ability to translate these issues into a design project.
Objectives

- An understanding of a specific design outlook and process as developed through weekly exercises and design development drawings and models.
- The ability to translate this process into a developed design, presented as an architectural project at the end of the unit.

Generic attributes developed in this UoS
- Research and Inquiry. Students will research and present relevant precedents as set in each group.
- Personal and Intellectual Autonomy. Within the tutorial group, students will each pursue individual design projects that demonstrate a personal interpretation of the themes set by the design tutor.
- Communication. Students will exercise oral, drawing and model-making skills, and use appropriate digital means to present work.

Contribution of UoS to program
Core

Student effort expected
- Contact hours: 6./per week for 8 weeks
- Class preparation: lO.hrs/wk for 8weeks
- Assessment preparation: 28.hrs/semester

ARCH 4102 **Architecture in the 20th Century**
6 credit points. B Arch, UG Study Abroad Program. Dr Harry Margalit. **Session:** Semester 1. **Classes:** Lectures and seminars. **Prohibitions:** May not be counted with ARCH 2104..

Objectives
The unit presents selected topics on major issues addressed in architecture in the early Modern Movement and during the second half of the twentieth century. It aims to explain the rationale behind the evolution of the theoretical and formal aspects of modern architecture and some of the various strands that characterise the search for a relevant architecture today.

Outcomes
It is intended that students will:
- have knowledge and insight into the evolution of architectural thought and built form during the twentieth century;
- be able to enter into informed and critical debate on architectural issues;
- be in a sound position to place their own work in the context of historical architectural development;
- be able to assess the value and relevance of the contemporary work of others as it relates to their own endeavour; and
- be culturally educated individuals, well-informed and confident in determining their own stance regarding value in architectural ideology and performance.

The tests and the essay are designed to indicate the extent to which the student can both discourse on, and apply knowledge of, this history to their own and others' architectural works.

Contribution of the unit to its program
this unit is core in the BArch.

ARCH 4103 **Contract Documentation**
6 credit points. B Arch, UG Study Abroad Program. Dr Peter Armstrong. **Session:** Semester 1. **Corequisites:** ARCH 4101 and 4102.. **Prohibitions:** May not be counted with ARCH 2105.. **Assessment:** Preparation of a set of basic building contract documentation including working drawings and specifications; submission of papers, including rudimentary cost estimates, based on class work.

Aims
The unit aims to provide some knowledge of basic contract law and building contracts; as well as information about, and skills in, the production of working drawings, specifications and opinions of probable construction costs, as commonly prepared by an architect.

Objectives
On the successful completion of this unit of study, students will have demonstrated:
- A competent ability in the production of working drawings, specifications and cost control for the building designed during the Architectural Studio A;
- An ability to communicate this documentation to clients, statutory authorities, consultants, tenderers, contractors and sub-contractors etc. such that they are able to understand what is required to be built;
- An understanding of the significance of contract documents in contracts, the relationship between contract documents and relevant law, and the provision of a context for understanding the full examination of commonly used building contracts in the Professional Practice unit of study;
- An ability in the making of working drawings and specifications, the coordination of these documents into contact documents;
- An understanding of the role of consultants with specific reference to cost control, and the management of the process.

Generic attributes developed in this unit
- to identify and formulate problems, and to envisage and enact processes in response to them;
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them;
- to critically evaluate existing understandings and recognise limitations with their own knowledge;
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources.

Contribution of unit of study to its program
Core

Student effort expected
- Contact hours: 3/per week
- Class preparation and assessment preparation: 39.hrs/semester

ARCH 4201 **Architectural Design Studio B**
6 credit points. B Arch. Dr Peter Armstrong. **Session:** Semester 2. **Corequisites:** ARCH 4202 and 4203.. **Prohibitions:** May not be counted with ARCH 2107. **Assessment:** Each project submission will be assessed in relation to the objectives of the unit and the specific aims of the project.

Aims
Through integration with Design Technologies 1 and Architectural Structures and Materials, this unit will provide students with the opportunity to approach the design of a building in a holistic way. Projects will seek to explore the design of building types, and their context, where an appropriate level of investigation in the preparation of contract documents and the resolution of structures can be achieved. Cultural and environmental sustainability, as well a reflective mode of teaching and learning, will provide a context within which all projects will be framed. It is assumed that a sound design philosophy will inform the projects explored in the unit of study.

Objectives
At the successful completion of this unit students will have:
- proposed projects which successfully integrate technical requirements;
- enhanced their professional attitude to design;
- extended their understanding of the cultural and environmental framework of design;
- applied these understandings, and demonstrated good architectural judgement; and
- communicated the design ideas effectively through: drawings, models, CAD etc.

Generic attributes developed in this unit
- to identify and formulate problems, and to envisage and enact processes in response to them;
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them;
- to critically evaluate existing understandings and recognise limitations with their own knowledge;
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources.

Contribution of unit of study to its program
Core

Student effort expected
- Contact hours 6./per week for 8 weeks
- Class preparation: lO.hrs/wk for 8weeks
- Assessment preparation: 28.hrs/semester

ARCH 4202 **Design Technology 1**
6 credit points. B Arch, UG Study Abroad Program. **Session:** Semester 2. **Corequisites:** ARCH (4201 and4203). **Prohibitions:** May not be counted with ARCH 2103.. **Assessment:** Assessment is in four parts: attendance of 90% for all components, design development drawings of the studio project of ARCH 4201, a written report on site visits and detailing exercises related to the lecture program.

Aims
This unit aims to give students the ability to realise their design intentions initially in the studio projects of the degree and then in subsequent practice, and to provide the basisi for the development of technical and design skills required of a professional architect

Objectives
The unit aims to:

- examine the construction of the primary elements of the external fabric of large buildings;
- further develop the principles of the performance of structure, materials and construction;
- develop the application of the requirements of the BCA and relevant Australia Standards;
- develop the primacy of detailing, skills in accurate drafting for contract documents, and the design principles of advanced construction materials in relation to structural and environmental concerns.

Generic attributes developed in this unit
On successful completion of this unit students will have:
- a working knowledge of construction methods for large/complex buildings;
- a decision making ability for the selection of materials, detailing of assemblies and their relation to other parts of a building;
- and a working knowledge of the regulatory environment for large buildings, the relationships between construction detailing and structural and environmental concerns, and the production of construction details for contract documents.
Each assignment is structured to exercise the learning and develop the ability of each student for one or more of the above outcomes within the context of large buildings.

Contribution of unit of study to its program
Core

Student effort expected
- Contact hours: 5./per week
- Class preparation: 2hrs/wk
- Assessment preparation: 30 hrs/semester

ARCH 4203 **Architectural Structures and Materials**
6 credit points. B Arch, UG Study Abroad Program. David Gunaratnam. **Session:** Semester 2. **Corequisites:** ARCH (4201 and 4202). **Prohibitions:** May not be counted with DESC 2102. **Assessment:** Quiz, Design Project Assignment & Case Study Assignment.
The unit focuses on structural design issues applicable to advanced structures that fall within the categories of wide-span and tall building structures, and provides knowledge required for their synthesis and preliminary design. It provides experience in making structural decisions within the context of building designs that exploit these classes of structures. It also provides information on the properties, processes and applications of a selected group of building materials. The unit is organised around four major sections as follows:
(a) Wide-span Structures
Reviews the structural developments of wide-span building structures. Discusses the types, behaviours and design issues for space frame, tension, membrane and shell structures. Provides approximate behavioural models for this class of structures. Presents information for selecting design parameters and for assembling systems from basic units. Discusses different decision criteria used in decision-making, including structural efficiency, and construction implications for the different structural types. Presents a number of case studies.
(b) Tall Building Structures
Reviews the structural developments of tall building structures. Discusses planning implications on and strategies for the selection of appropriate structural systems and the behaviour under load of different types of lateral load resisting structures. Presents a number of case studies, and discusses the effect of decision criteria such as cost and time on design decisions.
(c) Foundations
Discusses different types of footings and the context in which they are used. Topics considered include: geotechnical investigation; foundation and footing types - applications and impact on design and construction; retaining walls and basements; and special situations such as construction over fill, underpinning, expansive clays, slope stability and deep excavations.
(d) Materials
Discusses the properties and processes for a number of building materials from a performance requirement point of view. Considers the selection of materials based on design and constructional issues. Includes materials such as cast-in-situ and precast concrete, glass and polymers. Discusses types and uses of sealants and membranes. Explores the factors and mechanisms that promote corrosion in buildings, and the bases for the methods used in controlling corrosion.

Aims
Students are expected to be familiar with the different structural strategies and systems (including footing systems) used in the synthesis of wide-span and tall building structures, and the context under which they are used. They are expected to be able to collect appropriate information, formulate the structural design requirements for wide-span and tall building structures, and to generate a number of alternative structural systems that satisfy the design requirements and to evaluate them based on decision criteria, such as cost and efficiency.

Objectives
Knowledge required for the selection of structural strategies, structural systems and materials, for a variety of design situations, are assessed through a quiz. Knowledge required for decision making within the structural design process, including formulation of structural design requirements, for wide-span buildings are assessed both through a case study and a design project assignment.

c). Generic attributes developed in this UoS
The above objectives require the students
- to be able to identify and formulate problem, and to envisage and enact processes in response to them;
- to recognise the extent of information needed;
- to use contemporary media and technology to access, manage and communicate information;
- to be able to respond effectively to unfamiliar problems and contexts;
- to be competent and creative in the use of existing knowledge;
- to be aware of the roles of scientific knowledge and reasoning in design practice.

Contribution of UoS to program
Core

Student effort expected
- Contact hours: 4./per week
- Class preparation: l..hr/wk
- Assessment preparation: 26.hrs/semester

ARCH 5101 **Architectural Design Studio C**
6 credit points. B Arch. Harry Margalit. **Session:** Semester 1. **Prerequisites:** ARCH 4201. **Prohibitions:** May not be counted with ARCH 3104. **Assessment:** Attendance; tutorial participation, including staged exercises; and submission and presentation of developed design.
Aims
Architectural projects offered by Faculty staff and visiting design practitioners will introduce students to a range of design issues and ideas, drawing on contemporary theory and practice. At the conclusion students will have worked closely with a tutor on a unique project, absorbing the key issues informing the project and demonstrating an ability to translate these issues into a design project.

Objectives
- An understanding of a specific design outlook and process as developed through weekly exercises and design development drawings and models.
- The ability to translate this process into a developed design, presented as an architectural project at the end of the unit.

Generic attributes developed in this UoS
- Research and Inquiry. Students will research and present relevant precedents as set in each group;
- Personal and Intellectual Autonomy. Within the tutorial group, students will each pursue individual design projects that demonstrate a personal interpretation of the themes set by the design tutor;
- Communication. Students will exercise oral, drawing and model-making skills, and use appropriate digital means to present work.

Contribution of UoS to program
Core

Student effort expected
- Contact hours 6./per week for 8 weeks
- Class preparation: lO.hrs/wk for 8weeks
- Assessment preparation: 28.hrs/semester

ARCH 5201 **Architectural Design Studio D**
12 credit points. B Arch. Harry Margalit. **Session:** Semester 2. **Prerequisites:** ARCH 4201. **Corequisites:** ARCH 5202. **Prohibitions:** May not be counted with ARCH 3105. **Assessment:** Assessment will be in the form of specific, short design exercises, attendance and a major design proposal presentation to a critique jury.
Objectives

On the successful completion of this unit students will have demonstrated:
- An ability to graphically communicate an interpretation of a brief;
- An ability to formulate and present concepts useful to design from a brief and site;
- The ability to translate and extend these starting points into a working design proposal;
- A method of developing a design proposal in response to critique;
- The communication of design ideas effectively through appropriate graphic and three dimensional means using architectural conventions, and demonstrating the ability to cohesively design and execute a comprehensive presentation.

Generic attributes developed in this unit
- Research and Inquiry. Through the critical evaluation of brief and site, and the research and documentation of both, research skills and the ability to creatively formulate specific lines of inquiry will be developed.
- Information Literacy. Each stage of the design analysis and development will be documented and presented in a relevant medium, including textual, graphic and computer aided means.
- Personal and Intellectual Autonomy. Each design is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief.
- Ethical, Social and Professional Understanding. Both the analytic and design phases of the unit are structured by the ethics and aspirations of individual students. These guide the development of the design, and in the process are questioned and clarified through the tutorial and the jury critique processes.
- Communication. In both tutorials and jury critiques, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique.

Contribution of unit of study to its program
Core
Student effort expected
- Contact hours: 8hrs./per wk
- Class preparation: 8.hrs/wk
- Assessment preparation: 8.hrs/wk

ARCH 5202 **Design Technology 2**
6 credit points. B Arch, UG Study Abroad Program. David Leifer. **Session:** Semester 2. **Prerequisites:** ARCH 4202. **Corequisites:** ARCH 5201. **Prohibitions:** May not be counted with ARCH 3102 or DESC 2101. **Assessment:** Attendance, tutorial participation and Assignment.
Aims
This unit is intended to cover the practicalities that need to be resolved when proposing a building: The proposal must be realisable in terms of planning, servicing, meeting the provisions of the Building Code of Australia, and funding.
This unit concentrates on the implications of building services provision on space planning, building form and architectural design. It will instil in students an understanding of the vocabulary of building services so that they can usefully contribute and direct to the selection of servicing strategies and equipment choices in discussion with other building consultants. It will further nurture the student's ability to make early design 'guesstimates' of the space needs and appreciation of the layout consequences of design decisions.

Objectives
At the successful completion of this unit of study, students will have demonstrated:
- An ability to realistically assess the services requirements for a building in terms of its useage;
- An ability to generate and assess alternative servicing strategies;
- An understanding of the advantages and disadvantages of different types of servicing equipment;
- An ability to prepare early 'guesstimates' of the space and volume requirements of the servicing equipment;
- An ability to comprehend the potential spatial clashes between structure and services;
- An awareness of the impact of the BCA Fire, Egress, and Amenity provisions on design.

Contribution of UoS to program
Core

Student effort expected
- Contact hours: 2.5 hrs/per week
- class preparation: 2..5hrs/wk,
- assessment preparation: 13hrs/semester.

ARCH 6104 **Theory in Architecture**
6 credit points. B Arch, UG Study Abroad Program. **Session:** Semester 1. **Prohibitions:** May not be counted with ARCH 2102. **Assessment:** Attendance, tutorial participation and submission on selected theory and buildings.
Aims
The Unit examines recent and contemporary theory in architecture. Select examples will be emphasised, and their relationship to both theory and architecture discussed. At the conclusion students will be familiar with these key debates in theory, and will understand their terms and their relationship to architecture. Particular emphasis will be placed on theory related to modernity and to contemporary practice.

Objectives
On successful completion of this unit a students will have demonstrated:
- A familiarity with select examples of theory, and an understanding of the references and terms used as expressed in the student's words in written or seminar format;
- An ability to apply or relate specific theory to architecture, using the essay and /or graphic means to demonstrate this relationship between theory and architecture;

Generic attributes developed in this UoS
- Research and Inquiry. Students will develop techniques of research through the examples of theory and architecture they will present;
- Information Literacy. Students will draw from a variety of print and digital sources to research and construct their presentations and essays;
- Personal and Intellectual Autonomy. Individual submissions on selected topics promote independent judgement as to the appropriateness and significance of the examples selected;
- Communication. Students will exercise oral, drawing and writing skills, and use appropriate digital means to present work.

Contribution of UoS to program
Core

Student effort expected
- Contact hours: 2 hrs/per week
- Class preparation: 2hrs/wk,
- Assessment preparation: 26hrs/semester.

ARCH 6105 **Studies in Innovative Construction**
6 credit points. B Arch, UG Study Abroad Program. Peter Armstrong. **Session:** Semester 2. **Prohibitions:** May not be counted with ARCH 6096.. **Assessment:** An analysis in model form of an important structure of the student's choice.
Aims
Studies in Innovative Construction is a series of investigations which elucidate the origins of buildings of iconic status, examining the intent of the architect in the context of prevailing technologies, social and economic determinants and cultural background. Buildings by famous architects will analysed in terms of construction systems, materials and details, revealing the inner structure of the architecture and the foundations of built form.
The course is a series of studies of pivotal buildings and their architects, examining the relationship between the design intent of a project and its realisation in terms of materials, construction and detail.
In the studies, exploration of the nature of the intellectual framework of the architect's conceptual process and the means of realisation will give a clear understanding of the complex relationship between concept, actualisation and construction
The context of each building is looked at in terms of time, location, technology and cultural milieu, and in terms of the impact of context on fabric and detail.
While dealing principally with the modern period, influential buildings of earlier periods will be included where significant patterns of influence have extended into the twentieth century.
Change in technology and its impact on the relationship between form and detail will be studied with a view to understanding the materials and construction techniques expressed in building detail. Similarly, the influence of prevailing labour practices and cost on form and materials will be explored.
The studies will generally centre on the works of famous architects, using their writings, sketches, detailed drawings and illustrations of the completed buildings. The examples include both contemporary and historical examples with examples drawn from both the broad

streams of the European and American traditions and substantial material drawn from Eastern Asian design and practice.

Objectives
The following are objectives of these studies:
- To understand the nature of built form and fabric in terms of time and place;
- To examine in detail the relationship between design outcomes and the process of construction;
- To examine the impact of technological change on design;
- To understand the conceptual processes of famous architects in terms of the social, technical and cultural constraints within which they worked;
- To examine and contrast the national characteristics of the major periods of architectural development in each country; and
- To understand the ongoing influence of building traditions in contemporary culture.

Generic attributes developed in this unit
- to identify and formulate problems, and to envisage and enact processes in response to them;
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them;
- to critically evaluate existing understandings and recognise limitations with their own knowledge;
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources.

Contribution of unit of study to its program
BArch Elective

Student effort expected
- Contact hours: 3hrs/week
- Class preparation: 2hrs/wk
- Assessment preparation: 24hrs/semester

ARCH 6201 **Management in Architecture**
6 credit points. B Arch, UG Study Abroad Program. Peter Armstrong. **Session:** Semester 2. **Prerequisites:** ARCH 4103. **Prohibitions:** May not be counted with ARCH 3106 or 3107. **Assessment:** A series of individual written exercises in the form of letters on topics covered during the lectures and individual contributions to tutorials, examination.Students work in pairs to prepare and present seminar papers on topics selected from case studies. Topics include the comparison of commonly used building contracts, the management and administration of building contracts, and the management of an architectural practice.

Aims
Students are expected to demonstrate a capacity to identify specific issues and articulate methods of resolving related problems with specific reference to the links between the contacts, their administration, the architect's responsibility to the contracted parties, and how these issues can impact on the design and construction of a building project.
This unit provides information on the practice of architecture with particular emphasis on the obligations and responsibilities of architects to clients, builders, consultants and the community and to the administration of contracts commonly used in the procurement of buildings.
The unit provides instruction in: the regulation of the architectural profession; roles of consultants and their selection, engagement, coordination and responsibilities; modes of practice, conditions of engagement for architects; fee structures; meeting procedures; pre-contract management; contract selection and administration; alternative procurement methods and the relationship of these factors in completing a building project.

Objectives
On the successful completion of this unit of study, students will have demonstrated:
- An understanding of an architect's responsibilities;
- An understanding of the management of architectural practices;
- An understanding of the manner in which architects are involved in contract administration, and commonly used procurement methods within the building industry.

Generic attributes developed in this unit
- to identify and formulate problems, and to envisage and enact processes in response to them;
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them;
- to critically evaluate existing understandings and recognise limitations with their own knowledge;
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources.

Contribution of unit of study to its program
Core

Student effort expected
- Contact hours: 3/per week
- Class preparation: 1 .hrs/wk
- Assessment preparation: 26.hrs/semester

ARCH 6301 **Design Studio Workshop A**
6 credit points. B Arch, B Arch, B Des Arch. Professor Tom Heneghan. **Session:** Semester 1, Semester 2. **Assessment:** design jury.
NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.

Aims
Through design projects offered by visiting national and international design practitioners and Faculty staff, this unit of study will provide students with the opportunity to explore a wide range of design issues and ideas in an intensive design studio environment.

Objectives
At the successful completion of this unit of study students will have:
- Extended their ability to develop creative responses to a design brief or situation;
- Extended their understanding of the theoretical, historical, cultural, environmental or technical framework of design;
- Applied these understandings and demonstrated good architectural judgement;
- Communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context.

Generic attributes developed in this UoS
- Research and Inquiry. Through the process of developing their own designs students will learn to think critically, creatively and imaginatively
- Information Literacy. Students will develop the ability to use information critically and make informed judgements in the developing the 'argument' embodied in their design
- Personal and Intellectual Autonomy. Through the development of their own design solutions students will develop their own independent learning, and engage in continuous reflection, self-evaluation and self-improvement.
- Communication. Students will learn to make effective use of oral, written, visual and other forms of communication to develop, present and argue for their design solutions.

Contribution of UoS to program
In the BArch, completion of one of the four Design Studio Workshops offered is core, any additional is an elective.

Student effort expected
- Contact hours: 40 hr intensive
- Assessment and preparation: 38 hrs

ARCH 6302 **Design Studio Workshop B**
6 credit points. B Arch, B Arch, B Des Arch. Professor Tom Heneghan. **Session:** Semester 2, Semester 1. **Assessment:** design jury.
NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.

Aims
Through design projects offered by visiting national and international design practitioners and Faculty staff, this unit of study will provide students with the opportunity to explore a wide range of design issues and ideas in an intensive design studio environment.

Objectives
At the successful completion of this unit of study students will have:

- Extended their ability to develop creative responses to a design brief or situation;
- Extended their understanding of the theoretical, historical, cultural, environmental or technical framework of design;
- Applied these understandings and demonstrated good architectural judgement;
- Communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context.

Generic attributes developed in this UoS
- Research and Inquiry. Through the process of developing their own designs students will learn to think critically, creatively and imaginatively
- Information Literacy. Students will develop the ability to use information critically and make informed judgements in the developing the 'argument' embodied in their design
- Personal and Intellectual Autonomy. Through the development of their own design solutions students will develop their own independent learning, and engage in continuous reflection, self-evaluation and self-improvement.
- Communication. Students will learn to make effective use of oral, written, visual and other forms of communication to develop, present and argue for their design solutions.

Contribution of UoS to program
In the BArch, completion of one of the four Design Studio Workshops offered is core, any additional is an elective.
Student effort expected
- Contact hours: 40 hr intensive
- Assessment and preparation: 38 hrs

ARCH 6303 **Design Studio Workshop C**
6 credit points. B Arch, B Arch, B Des Arch. Professor Tom Heneghan. **Session:** Semester 1, Semester 2. **Assessment:** design jury.
NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.
Aims
Through design projects offered by visiting national and international design practitioners and Faculty staff, this unit of study will provide students with the opportunity to explore a wide range of design issues and ideas in an intensive design studio environment.

Objectives
At the successful completion of this unit of study students will have:
- Extended their ability to develop creative responses to a design brief or situation;
- Extended their understanding of the theoretical, historical, cultural, environmental or technical framework of design;
- Applied these understandings and demonstrated good architectural judgement;
- Communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context.

Generic attributes developed in this UoS
- Research and Inquiry. Through the process of developing their own designs students will learn to think critically, creatively and imaginatively
- Information Literacy. Students will develop the ability to use information critically and make informed judgements in the developing the 'argument' embodied in their design
- Personal and Intellectual Autonomy. Through the development of their own design solutions students will develop their own independent learning, and engage in continuous reflection, self-evaluation and self-improvement.
- Communication. Students will learn to make effective use of oral, written, visual and other forms of communication to develop, present and argue for their design solutions.

Contribution of UoS to program
In the BArch, completion of one of the four Design Studio Workshops offered is core, any additional is an elective.

Student effort expected
- Contact hours: 40 hr intensive
- Assessment and preparation: 38 hrs

ARCH 6304 **Design Studio Workshop D**
6 credit points. B Arch, B Arch, B Des Arch. Professor Tom Heneghan. **Session:** Semester 1, Semester 2. **Assessment:** design jury.
NB: Department permission required for enrolment. This unit is intended primarily for students in the BArch. Students from the Bachelor of Design in Architecture must be in Design Practice 2 or 3 and must have a high credit average in Design Practice to enrol.
Aims
Through design projects offered by visiting national and international design practitioners and Faculty staff, this unit of study will provide students with the opportunity to explore a wide range of design issues and ideas in an intensive design studio environment.

Objectives
At the successful completion of this unit of study students will have:
- Extended their ability to develop creative responses to a design brief or situation;
- Extended their understanding of the theoretical, historical, cultural, environmental or technical framework of design;
- Applied these understandings and demonstrated good architectural judgement;
- Communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context.

Generic attributes developed in this UoS
- Research and Inquiry. Through the process of developing their own designs students will learn to think critically, creatively and imaginatively
- Information Literacy. Students will develop the ability to use information critically and make informed judgements in the developing the 'argument' embodied in their design
- Personal and Intellectual Autonomy. Through the development of their own design solutions students will develop their own independent learning, and engage in continuous reflection, self-evaluation and self-improvement.
- Communication. Students will learn to make effective use of oral, written, visual and other forms of communication to develop, present and argue for their design solutions.

Contribution of UoS to program
In the BArch, completion of one of the four Design Studio Workshops offered is core, any additional is an elective.

Student effort expected
- Contact hours: 40 hr intensive
- Assessment and preparation: 38 hrs

AWSS 1001 **Architectural Sketching and Drawing**
6 credit points. B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 1601 or 1602. **Assessment:** Attendance and studio practice 20%, familiarity with materials and techniques 20%, selection of a portfolio of 15 drawings representative of the exercises and projects undertaken throughout the course, 60% .
NB: Students may incur costs for materials in some Art Workshops units.
Aims
This module aims to provide the student with the knowledge, skills and aptitude required to use a range of fundamental drawing skills and media to make a portfolio of drawings based on observation of the physical world, in particular the built world. The module aims to increase the student's level of skill in representational and interpretive areas of drawing, using a wide range of drawing media and techniques, focussing on the formal aspects of composition, perspective, using a wide range of mark-making methods to render line, tonal value and texture and introducing students to the use of colour. Students will be encouraged to develop a commitment to the practice of drawing as a discipline in its own right as well as a fundamental skill in all studio areas. Each technique and approach will be presented against a background of art history and theory.
Objectives
On successful completion of this unit of study students will have demonstrated familiarity with a range of drawing media and techniques, media including charcoal, graphite, conte, pen and brush and ink, as well as being introduced to colour and mixed media. Students will be able to draw the physical world with observational accuracy as well as to express a personal interpretive response; be able to make an informed critical response to other artists' drawings, and be able to criticize and select from their own work for their final portfolio. Students will understand the importance of maintaining a visual diary as a site to record all their visual and conceptual research, and in which to draw on a daily basis as a means to develop both skills and ideas.

Generic attributes developed in this UoS
The student will:
- have a body of knowledge in the field of drawing the built world;
- be able to apply a range of technical and conceptual skills as appropriate to the approach of the drawing;
- be able to exercise critical judgement, realistic self-evaluation and imaginative thinking.

Contribution of UoS to program
Elective.
Allied Arts in Architecture stream for the B.DesArch and elective for other programmes.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.
Student effort expected
Contact hours.. .39 hrs./per semester
39 hours of self directed study, which includes a substantial process journal, research, studio practice, gallery/studio visits and class preparation.

AWSS 2001 **Public Art**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1. **Prohibitions:** May not be counted with DES A 2618.. **Assessment:** Research Journal, Essay and Oral presentation.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
The field of public art is rapidly growing and as such has generated much debate and interest. What exactly is public art?
The aim of this unit is to provide students with a broad overview of the issues that influence and inform the production of art in the public sphere: history and theory of public art, policy and management, conservation, community response and evaluation, current local and international practice. It aims to develop each student's ability to critically analyse and be able to enter into debate (both written and spoken) on public art issues, especially its relationship to architecture. Field trips, artist/commissioner talks,case studies, (such as the Vietnam Memorial in Washington and the Sydney Olympic Public Art Projects) and slide lectures will complement the theoretical content of Public Art.
Objectives
On the successful completion of this unit of study a student will demonstrate the learning objectives through:
- being familiar with a wide range of issues about the public art field and from this point be able to enter into an informed debate about this field. This may occur through group discussion, seminar presentation and essay writing.
- investigating and developing a critical analysis of a specific area of public art.

Generic attributes developed in this UoS
Through this unit of study a student will:
- have a body of knowledge in the field of visual arts, specifically public art.
- be able to exercise critical judgement as outlined in the learning objectives.
- demonstrate the ability to plan and achieve a goal by researching and writing an essay/seminar
- develop writing and presentation skills that can then be used in other areas.
- begin to develop ideas about ethical and social concerns as they relate to public space.

Contribution of UoS to program
Allied Arts in Architecture stream for the BDesArch and elective for other programmes.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hours face to face teaching./per semester
Student effort expected for an average student to achieve a pass level result:
39 hours of self directed study, which includes a substantial research journal, independent research,

AWSS 2002 **Site Specific Art**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** SI Intensive, Semester 2. **Classes:** Practical studio work. **Prohibitions:** DESA2619. **Assessment:** 40%: commitment and experimentation, 40% quality of work produced and/or of project being investigated, and 20%: contribution to discussion.Mastery tasks: site investigation, research report on one artist, gallery & public art activity sheet, journal.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This practical unit aims to give students a broad understanding of how site specific art functions as a contemporary art medium, including its historical development and relationship to other visual art forms and architecture. Students will gain experience in ways of selecting and analysing sites for the purposes of incorporation into artwork. Students will begin to develop an individual art practice through experience in making a range of temporary site specific artworks. Students will also begin to develop ways of analysing and evaluating site specific artworks generally, and their own in particular, through directed group discussions of each others work, of a site specific artwork on a site visit, and of other site specific artworks presented in slide form, as well as through directed individual research out of class time.

Objectives
On successful completion of this unit of study students will have demonstrated the ability to:
- select and analyse a site for the purposes of developing site specific art;

- develop, plan and make site specific artworks which articulate particular responses to a site;

- evaluate your own and other site specific artwork in discussion and writing; and

- understand ways in which site-specificity functions within contemporary art and architecture.

Generic attributes developed in this UoS
- Knowledge in the field of site specific art and art making generally.

- Capacity for personal and intellectual autonomy through experience in using artwork to identifying and articulating personal responses to the natural, architectural, social and other aspects of the environment.

- Capacity for ethical, social and professional understanding through consideration of the critical, celebratory and other social functions of site specific art, and through contributions to group discussions of their own and others' artwork.

- Capacity to recognise and value visual art as a language with which to communicate feeling, intellectual and other responses to the natural, architectural, social and other aspects of the environment.

Contribution of UoS to program
Elective.
Allied Arts in Architecture stream for the BDesArch and elective for other programmes.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
- Contact hours 3 hrs /per week
Student effort expected for an average student to achieve a pass level result:

- Non-contact Hours: total 39hrs/semester:
- Site investigation project: 8 hrs/semester
- Journal: record & evaluate own & other students' artwork: 13 hrs/semester
- Research: general readings, specialised research on one artist: 13 hrs/semester
- Activity Sheet: record of gallery and public art visits. 5 hrs/semester

AWSS 2010 **Ceramics (Handbuilding)**

6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mark Jones. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2634. **Assessment:** Assessment is based on attendance, application and participation (marks will be deducted after 1 missed class) ungraded 20% from tutors recordTechnical development/workshop practice from weekly tasks 30% (graded)Studio journal 20% (graded)Final work/s 30% (graded).

NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.

Aims

This practical unit aims to give students the understanding to create handbuilt ceramic constructions that will be fired and glazed. Students will explore the plastic properties of clay as well as glazing, underglazing and surface treatments. There will be an investigation of handbuilt ceramics at both historical and contemporary levels. Set projects will enable students to discover their own means of expression and design of vessels and sculptural forms. Projects include slab and coil construction and combinations of coil, slab and pinch construction. Various surface finishes such as brushwork, glazing and sculptural relief applications will be introduced including coloured underglazes, slips and glazes.

Objectives

At the successful completion of this unit of study students will have demonstrated:

- the ability to design work from concept to finished object by making forms and keeping a studio journal;
- the ability to use brushwork and coloured glaze and underglaze applications through class demonstrations and work on projects;
- the ability to construct forms from demonstrations and keeping a studio journal;
- a basic understanding of technical issues associated with ceramic production through making vessels and forms and the keeping of a studio journal;
- the ability to use technical/development workshop practice to produce forms and vessels and keeping a studio journal.

Generic attributes developed in this UoS

Through this unit of study students should:

- be able to think critically, creatively and imaginatively in relation to their ceramic work;
- be able to relate to, interact and work with others in a practical studio situation;
- develop the ability to design ceramic forms through research and drawing;
- have gained a basic understanding of ceramic handbuilding.

Contribution of UoS to program

Elective. Allied Arts in Architecture stream for the BDesArch and elective for other programmes.

Student effort expected

Contact hours 39 hrs./per semester
Class preparation and assessment 39.hrs/semester
Student effort expected for an average student to achieve a pass level result:
14 hrs Research/process journal
15 hrs Independent Studio time
6 hrs Gallery visit and written report
4 hrs presentation of final work to class

AWSS 2011 **Ceramics (Wheel Throwing)**

6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mark Jones. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2631.. **Assessment:** Assessment is based on attendance, application and participation (marks will be deducted after 1 missed class) ungraded 20% from tutors record;Technical development/workshop practice from weekly tasks 30% (graded);Studio journal 20% (graded);Final work/s 30% (graded).

NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.

Aims

This practical unit aims to give students an introduction to the varied techniques of throwing on the wheel to produce vessels and designed forms. The emphasis is on the art and craft of this age old method of construction There will be an investigation of this practice at both historical and contemporary levels. Various techniques will be introduced including combination throwing and handbuilding, turning, glazing and brushwork with slips and underglazes

Objectives

At the successful completion of this unit of study students will have demonstrated:

- The ability to centre, throw, turn and apply handles to ceramic vessels through demonstration and practical studio work;
- the ability to develop brushwork designs using slips and underglazes and keeping a studio journal;
- a basic understanding of technical issues associated with ceramic production through making vessels and forms and the keeping of a studio journal;
- an awareness of historical and contemporary approaches to wheel made ceramics from slide lectures, gallery visits, demonstrations and keeping a studio journal;
- the ability to use technical/development workshop practice to produce vessels and keeping a studio journal.

Generic attributes developed in this UoS

Through this unit of study students should:

- develop the ability to design ceramic forms through research and drawing
- be able to relate to, interact and work with others in a practical studio situation
- be able to think critically, creatively and imaginatively in relation to their ceramic work
- have gained a basic understanding of ceramic wheel throwing

Contribution of UoS to program

Elective. Allied Arts in Architecture stream for the BDesArch and elective for other programmes.

Student effort expected

Contact hours 39 hrs./per sem
Class preparation and assessment 39.hrs/sem
Student effort expected for an average student to achieve a pass level result:
14 hrs Research/process journal
15 hrs Independent Studio time
6 hrs Gallery visit and written report
4 hrs presentation of final work to class

AWSS 2012 **Ceramics 2**

6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mark Jones. **Session:** Semester 2. **Classes:** Practical studio work. **Prerequisites:** DESA (2631 or 2634) or AWSS (2010 or 2011). **Prohibitions:** Mat not be counted with DESA 2644.. **Assessment:** Assessment is based on attendance, application and participation (marks will be deducted after 1 missed class) ungraded 20% from tutors record;Technical development/workshop practice from weekly tasks 30% (graded);Studio journal 20% (graded);Final work/s 30% (graded).

NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.

Aims

This practical unit aims to give students the understanding to produce a number of individually designed ceramic works that develop and extend techniques learnt in level 1. Students will gain the knowledge to create larger and more advanced ceramic forms with combinations of coil, hardslap and throwing techniques. Students will be introduced to plaster moulds for larger constructions and relief decorations. An individual approach to vessel and sculptural construction will be informed by historical and contemporary ceramic art and craft practices. In addition experimental surface treatments will be explored. Students of Architecture will be able to use this course to explore architectural forms using ceramics and mixed media. The delivery mode will be practical ceramic studio work, demonstrations, side lectures, class discussions, gallery visits and one to one tutor crit sessions.

Objectives

At the successful completion of this unit of study students will have demonstrated:

- the ability to construct more technically difficult forms (than in level 1) from demonstrations, making forms and keeping a studio journal;

- the ability to design work from concept to finished object by making forms and keeping a studio journal;
- the ability to develop self initiated projects by making forms and keeping a studio journal;
- the ability to reflect on their ceramic art and craft practice through class and tutor crit sessions and the keeping of a studio journal;
- the exploration of various advanced surface treatments through testing, making forms and keeping a studio journal;
- the ability to use technical/development workshop practice to produce forms and vessels and keeping a studio journal.

Generic attributes developed in this UoS
Through this unit of study students should:
- be able to think critically, creatively and imaginatively in relation to their ceramic work;
- develop the ability to design ceramic forms through research and drawing;
- be able to relate to, interact and work with others in a practical studio situation;
- have begun to develop a body of knowledge in the field of ceramics.

Contribution of UoS to program
Allied Arts in Architecture stream for the BDesArch and elective for other programmes.

Student effort expected
Contact hours 39 hrs./per sem
Class preparation and assessment 39.hrs/sem
Student effort expected for an average student to achieve a pass level result:
14 hrs Research/process journal
15 hrs Independent Studio time
6 hrs Gallery visit and written report
4 hrs presentation of final work to class

AWSS 2013 **Digital Video**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DES A 2632.. **Assessment:** Assessment is based on participation, process/research journal, practical digital video skills and completed projects.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This practical unit aims to explore the languages(s) of moving images, conventions of framing, movement and editing, develop a fundamental understanding of the technical aspects of pre-production, production and post-production; and generate independent and co-operative production using a variety of media. Digital video systems with contemporary editing software will be used. Emphasis is placed on skills development, process and conceptual awareness. The module is divided into units exploring approaches to lighting, shooting, editing, sound production and concept development for film and video.
Objectives
At the successful completion of this unit of study students will have demonstrated:
- Technical proficiency in the diverse areas of pre-production, production and post-production; understand conventions of classical continuity and main visual styles; and
- produce a moving image piece.
Students are assessed in the context of theoretical understanding and technical aptitude in the various aspects of moving image production

Generic attributes developed in this UoS
Generic attributes developed in this UOS include
- Knowledge in the field of digital video;
- be able to think critically, creatively and imaginatively in relation to digital video production;
- capacity for ethical, social and professional understanding through consideration of the critical aspects of digital video;
- capacity to recognise and value digital video as a language with which to communicate ideas;

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.

Student effort expected
Contact hours: 39 hrs./per sem.
Student effort expected for an average student to achieve a pass level result: Class preparation and assessment: 39.hrs/wk, 14 hrs Research/process journal, 15 hrs Independent Studio time, 6 hrs Gallery visit and written report, 4 hrs presentation of final work to class.

AWSS 2014 **Printmaking**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DES A 2630. **Assessment:** Attendance: 10%, Studio skills, image conception, research journal 30%, Print portfolio : 60%.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This practical unit aims to give students a broad understanding of how an etching is developed and manipulated offering a contemporary non toxic alternatives to traditional etching, as a significant visual medium. A wide range of mark making techniques will be applied combining collage, photography, photocopy art, textural found objects, digital images, as well as the traditional discipline of drawing. In this studio based unit, students will gain knowledge of fundamental plate making techniques, and their different applications through demonstration, slide lectures and discussion.
A set of preparatory exercises in plate making focuses on techniques and knowledge of materials while the process of printing on the etching press provide students with skills required in link application /manipulation for the production of fine art prints.
This proficiency provides students with the opportunity to build on their experiences and develop mastery in evolving their own personal approach to creative expression. A critical and conceptual approach to image making will be developed and explored through the principles of line, texture, colour, space, while adhering to a set class theme as a means for concept development..
An awareness of the history/theory in relation to printmaking as an art form in contemporary art, architecture and digital media will be discussed. Particular emphasis will be placed on the production of a high quality print portfolio on state of the art printmaking papers.

Objectives
On the successful completion of this unit of study you will be able to:
- Demonstrate your knowledge of how an etching plate is prepared and printed in black and white and multiple colour printing methods through studio practice, substantiated by the production of high quality print portfolio.
- Demonstrate research and scholarship abilities to inform your design decisions and creative process at all levels of producing a fine art print through knowledge of technique, theory and practice.
- Demonstrate initiative and resourcefulness in documenting and sourcing information, references and preparatory exercises for a weekly journal.
- Demonstrate an understanding of how printmaking theory and practice relate to your own classwork and be able to exercise critical judgement, self evaluation and imaginative thinking as outlined in the aims.

Generic attributes developed in this UoS
Through this unit of study students will:
- To be competent and creative within your personal vision and goals, and ability to work towards them through self directed projects and final artwork.
- Exercise critical thinking and judgement in creating new understanding of how a print is produced within contemporary art practice.
- Be able to use various forms of design representation, drawing, physical and digital models to prepare and present design proposals for the concept of your final prints.
- To be open to new ideas, methods and ways of thinking relating to the field of visual art.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which

they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hrs face to face teaching /per sem.
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice and gallery/studio visits and class preparation.

AWSS 2015 **General Drawing**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2633. **Assessment:** Attendance and studio practice 20%, familiarity with materials and techniques 20%, selection of a portfolio of 15 drawings representative of the exercises and projects undertaken throughout the course, 60%. *NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.*
Aims
This module aims to provide the student with the knowledge, skills and aptitude required to use a range of fundamental drawing skills and media to make a portfolio of drawings based on observation of the physical world. The module aims to increase the student's level of skill in representational, interpretive and expressive areas of drawing, using a wide range of drawing media and techniques, focussing on the formal aspects of composition, perspective, using a wide range of mark-making methods to render line, tonal value and texture as well as developing dynamic and expressive approaches to drawing. Students will be provided with the opportunity to combine sound observational skills with imaginative and experimental techniques in order to encourage a personal vision and style and a commitment to the practice of drawing as a discipline in its own right as well as a fundamental skill in all studio areas. Each technique and approach will be presented against a background of art history and theory.

Objectives
On successful completion of this unit of study students will have demonstrated familiarity with a range of drawing media and techniques, media including charcoal, graphite, conte, pen and brush and ink, as well as being introduced to mixed media and collage. Students will be able to draw the physical world with observational accuracy as well as to express a personal interpretive or imaginative response; be able to make an informed critical response to other artists' drawings, and be able to criticize and select from their own work for their final portfolio. Students will understand the importance of maintaining a visual diary as a site to record all their visual and conceptual research, and in which to draw on a daily basis as a means to develop both skills and ideas.
Generic attributes developed in this UoS
The student will:
- have a body of knowledge in the field of general drawing;
- be able to apply a range of technical and conceptual skills as appropriate to the approach of the drawing;
- be able to exercise critical judgement, realistic self-evaluation and imaginative thinking.
Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hours face to face teaching/sem.
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice and gallery/studio visits and class preparation.

AWSS 2016 **Graphic Design (Introduction)**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2637. **Assessment:** Process journal 10%, attendance + participation in studio exercises + critiques 10%, successful completion of studio exercises 15%, group presentation 10%, type history research 10%, final project 45%. *NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.*
Aims
This unit of study assumes the student knows little or nothing about graphic design. The aim is to introduce basic design principles and processes, examining the use of design elements, the construction of meaning in visual communications, research methods and the relationships between type, image and form.
The unit involves practical studio work with a lecture series that introduces students to the history, theory and practice of graphic design and typography. Preliminary exercises develop an understanding of the basic skills, concepts and materials of visual communication and document layout. Students learn about the elements of design, page composition and the use of type and image.
Understanding of the integration of type and image is applied in the final project. Students consider how information is transmitted and interpreted and develop an understanding of the key roles of the media form, the audience and the communication objective.
Students address the issues of style and meaning in contemporary design and typography and are required to research and present a journal of collected print samples and readings that expand their knowledge.
This unit aims to:
- introduce the principles, history, theory and practice of graphic design and typography;
- develop an understanding of the relationships between type, image and form;
- develop visual literacy, critical analysis and articulation skills in the research, application, presentation and critique of contemporary design;
- develop experimental approaches to design concept, application and presentation;
- integrate traditional hand-generated techniques with digital processes;
- develop project management skills in the research, processing, production and presentation of design outcomes;
- develop an experiential learning approach to design research through a process of experimentation, observation, analysis and critical self-reflection;
- develop an understanding of the criteria for the evaluation of visual communication effectiveness.
Objectives
On successful completion of this unit of study students will have demonstrated:
- an awareness of the field of graphic design and typography and the body of knowledge about its history, theory and practice;
- experimental approaches to the generation and manipulation of type and image in document layouts;
- self-reliance in conducting independent research, analysis and processing of information about design issues, and self-direction in learning;
- an creative approach to experimentation in different media, forms and techniques;
- an integration of traditional techniques with digital processes;
- successful management of the production and presentation of a graphic design print outcome to a professional standard;
- an ability to articulate design intent, concepts and proposals;
- a successful approach to planning and achieving goals within a team context, with consideration for professional practice and lifelong learning;
- an understanding of realistic self-evaluation techniques involving independent critical self-reflection and creative thought.

Generic attributes developed in this UoS
On successful completion of this unit, students will develop the following skills:
- collaboration, through research in small groups;
- critical self-reflection, through individual research and presentation, and group and peer evaluation;
- knowledge, by expanding on knowledge of the field of graphic design, and applying theory to practice in a professional outcome;
- thinking, by developing creative concepts that can be applied to realistic communication contexts;
- personal, by taking responsibility for self-directed learning, managing group dynamics in teamwork and undertaking objective peer evaluations;

- practical, in the experimentation and generation of visual communications.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.

Student effort expected for:
Contact hours 39 face to face teaching/sem
Student effort expected for an average student to achieve a pass level result: 14 hours research and process journal, 8 hours production and completion of studio exercises, 7 hours presentation preparation, 10 hours final project research, processing, production, presentation preparation.

AWSS 2018 **Life Drawing**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DES A 2641.. **Assessment:** Attendance and studio practice 20%, familiarity with materials and techniques 20%, selection of a portfolio of 15 drawings representative of the exercises and projects undertaken throughout the course, 60%.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This module aims to provide the student with the knowledge, skills and aptitude required to use a range of fundamental drawing skills to make a portfolio of work based on observation of the human body through the use of life models. The module aims to increase the student's level of skill in representational, interpretive and expressive areas of drawing, using a wide range of drawing media and techniques, focussing on the formal aspects of composition, anatomy, scale, proportion and foreshortening as well as developing dynamic approaches to drawing the human body. Students will be provided with the opportunity to combine sound observational skills with imaginative and experimental techniques in order to encourage a personal vision and style and a commitment to the practice of drawing as a discipline in its own right. Each technique and approach will be presented against a background of art history and theory.
Objectives
On successful completion of this unit of study students will have demonstrated familiarity with a range of drawing media and techniques, be able to apply these within a range of approaches to depict the human body, be able to respond to both short and long poses, be able to draw the human body with observational accuracy as well as to express a personal interpretive or imaginative response; be able to make an informed critical response to life drawings, and be able to criticize and select from their own work for their final portfolio .

Generic attributes developed in this UoS
The student will:
- have a body of knowledge in the field of life drawing;
- be able to apply a range of technical and conceptual skills as appropriate to the approach of the life drawing;
- be able to exercise critical judgement, realistic self-evaluation and imaginative thinking.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.
Student effort expected
Contact hours: 39 hrs./sem
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice and gallery/studio visits and class preparation.

AWSS 2019 **Mixed Media**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** DE-SA2616.. **Assessment:** Participation, Process/Research Journal, Practical Studio Skills, Completed Projects.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
In the twentieth century mixed media profoundly changed the form and content of visual arts. Mixed Media examines these developments through practical classes, slide lectures and discussion. Collage, assemblage, montage, photocopy art and the more traditional disciplines of drawing and printmaking are included in mixed media. This unit of study presents students with a wide range of art materials, techniques and concepts. It aims to develop skill in and knowledge of various formal considerations in art practice: scale, line, texture, colour, space, shape etc. as well as understanding the conceptual bases of artwork. Through a set of preparatory exercises and finished artworks students can explore and develop creative expression, technical abilities and knowledge of materials. An awareness of art history/theory in relation to mixed media will be presented and discussed to inform the student's own approach to image making.
Objectives
On the successful completion of this unit of study you will demonstrate the learning objectives through:
- exploring and using a variety of media, techniques and knowledge about the visual arts.
- taking this knowledge, learnt in preparatory exercises and developing it into finished art works that then form a substantial portfolio of works.
- using an awareness of art history and theory, in particular the use of mixed media during the twentieth century, to inform decision making in your creative process.
- reflecting on your art practice through a weekly journal, class and tutor crit. sessions and from this point realistically evaluating your own work.

Generic attributes developed in this UoS
Through this unit of study a student will
- have a body of knowledge in the field of visual arts, specifically mixed media and an awareness of contemporary art practice.
- be able to exercise critical judgement, realistic self evaluation and imaginative thinking as outlined in the learning objectives.
- be able to apply technical skills as appropriate to art practice and furthermore apply these to new situations.
- develop the ability to plan and achieve a goal through a self directed project.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hours face to face teaching./sem
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice and gallery/studio visits and class preparation.

AWSS 2020 **Object Design**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** DES A 2643. **Assessment:** Participation and Exercises (15%), Research Projects (35%) Major project: design development, documentation, manufacture, presentation of completed object (50%).
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
In this unit students develop and inter-relate manufacturing and artisan skills with research, analysis and design development. The unit aims to develop a critical awareness of the nature of all objects which surround us, exploring cultural, contextual and symbolic aspects of object design as well as functional and aesthetic qualities. Sustainability and social issues relating to their manufacture, use and disposal are also discussed. The unit aims to increase appreciation of

the materiality of objects focusing on timber as an example and introduces students to the wonderful diversity of timber species, environmental and ethical issues associated with their selection, and also emerging alternative materials. Through a series of exercises and production of their major project, students develop knowledge of construction techniques and skills in using wood/plastics tools and machinery and in so doing, build an awareness of industrial and craft practices and how they impact on the design process and outcome.

Objectives
It is expected that at the successful completion of this unit you will have:
- designed and manufactured a functional, meaningful and finely crafted object which demonstrates an ability to successfully integrate material properties, technical process, social objectives, function and form;
- presented written research and participated in discussion which demonstrates a knowledge of and ability to utilise theory to analyse and evaluate objects and environments;
- demonstrated initiative in finding research materials and undertaken meaningful research (involving critical complex thinking);
- confidence in working safely with various materials, tools and machinery.

Generic attributes developed in this UoS
On completing this unit of study you will develop:
- A body of knowledge in the field of object design and the ability to apply this to new situations;
- the ability to think critically and independently; develop rigorous thinking through applying a problem solving approach to creative and imaginative ideas and test these in practical applications;
- improved visual and verbal communication skills through group discussion, presentation of ideas and working with others;
- an understanding of ethical issues on which to base your design process;
- technical skills (including drawing, modelmaking and small scale manufacturing skills) and research skills.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Object Design theory and practice contributes to the work undertaken for architecture and design degrees: the unit provides students with the opportunity to realise their designs as completed 3D objects which can be used and assessed over time and also to work at a small, personal scale encouraging greater attention to fine detail.

Student effort expected
hours/Semester
39 hours - face-to-face studio teaching
13 hours - independent studio time
12 hours - research projects
14 hours - design development, documentation, presentation

AWSS 2022 **Painting**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2635. **Assessment:** Attendance and studio practice 20%, familiarity with materials and techniques 20%, 3 major projects each 20%.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This module aims to provide the student with the knowledge, skills and aptitude required to use a range of fundamental painting skills to make a portfolio of work based on observation of the physical world, and to experiment with imaginative applications of acrylic or oil media. Students with little or no experience with painting will be shown how to prepare grounds, mix colours, make a tonal scale in colour), then undertake practical work in observational painting including still-life and interior (painting form, modelling and shading techniques, use of pure colour), landscape (compositional techniques, perspective, use of grounds), the nude and self-portraiture (painting with a life model, anatomy). Each project will be presented against a background of relevant art history and conceptual approaches, including, where appropriate, contemporary approaches to style and appropriation, the decorative, text, collage and abstraction. Students will be shown how to use a visual diary as their research/process journal which will include all their visual and conceptual research.

Objectives
On successful completion of this unit of study the student will have demonstrated familiarity with a range of acrylic or oil media, be able to apply basic colour theory, to mix secondary and tertiary colours, and to create a wide tonal range; be able to use imaginative approaches to observing and painting the visible world based on sketches and studies; be able to make an informed critical response to paintings whose subject, style or technical approaches fall within the project areas studied, and be able to develop a painting from research stage to completion.

Generic attributes developed in this UoS
The student will:
- have a body of knowledge in the field of painting;
- be able to apply a range of technical and conceptual skills as appropriate to the subject and style of the painting;
- be able to develop a painting from research through sketches and studies and through the various stages of painting to achieve a finished work;
- be able to exercise critical judgement, realistic self-evaluation and imaginative thinking.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hrs./per week
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice, gallery/studio visits and class preparation.

AWSS 2023 **Photography 1**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2629.. **Assessment:** Application and participation: 20%, technical skills includes flawless prints: 30%, creative ideas and composition: 30%, portfolio: 10%, photography quiz 10%.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This practical unit aims to give students an understanding of how photography functions as a contemporary visual medium, including its historical development. Students will gain knowledge of the principles and practise of camera operations, the production of high quality black and white negatives and prints in small studio style classes. This module covers the use of a 35mm SLR camera, image composition, use of lighting, film developing and printing photographs. Practical work includes darkroom, gallery visits, completion of set class projects, technical exercises, class discussions and the production of a portfolio.

Objectives
On successful completion of this unit of study you will be able to:
- Demonstrate your knowledge of camera operations, film and print developing through darkroom practise and the production of a portfolio of black and white prints.
- Use an understanding of photography practise and theory to inform decision making in your creative process as well as entering into thoughtful debate.
- Reflect on your art practise through class and tutor critique sessions and from this point realistically evaluate your own work.
- Gain an awareness of how photography theory and practise relates to your coursework.

Generic attributes developed in this UoS
Through this unit of study you will:
- Have a body of knowledge in the field of photography.

- Be able to exercise critical judgement, realistic self evaluation and imaginative thinking as outlined in the aims.
- Be able to apply technical and conceptual skills as appropriate to photographic practise.
- Develop the ability to plan and achieve a goal through the completion of set class projects.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39hrs./sem
Student effort expected for an average student to achieve a pass level result: Class preparation 39.hrs/wk, assessment preparation: 5.hrs/sem, 30 hrs independent studio practise, 4 hrs photography quiz/ research task, 5 hrs presentation of portfolio.

AWSS 2024 **Photography 2**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prerequisites:** AWSS 2023 or DESA 2629 or equivalent. Equivalence can be established by either presenting a portfolio of b&w photographic work or by presenting a transcript indicating a minimum of a full semester unit in b&w photography. **Prohibitions:** May not be counted with DESA 2642.. **Assessment:** Take-home test, class contribution, portfolio.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
In this unit of study, students will have the opportunity to develop creative photographic projects from initial ideas to production of artwork, producing two major photographic series which function successfully at both an aesthetic and a conceptual level. They will have the opportunity to research and experiment with a variety of different ideas and take an experimental approach to photography, trying different techniques and considering which will best serve the intentions of the artwork.

Through visits to photographic galleries, class discussion and written evaluations they will develop their ability to evaluate and discuss the way in which a body of artwork (own and others) functions technically and conceptually. By the end of the unit they will have experienced planning and efficiently managing the time allocated to projects, and will also understand and be able to apply all aspects of good darkroom practice including co-operation in a practical work environment and Occupational Health and Safety (OHS) essentials.

Objectives
Through this unit of study students should be able:
- To develop through your input in class discussions and written assignments your ability to evaluate, analyse and discuss aspects of visual culture appropriate to the course of study;
- To develop through your darkroom practice and interaction with others your ability to work in, and contribute to, a cooperative group environment;
- To learn and experiment with a variety of different photographic techniques and identify which ones will be most useful in completing the major projects;
- To successfully complete a portfolio of experimental photographic work which showcases the technical and conceptual skills you apply to two main assignments;
- To use a range of technical processes to develop a series of images based on a particular theme;
- To use the technical process of pushing film in a low-light photographic context, to produce a fictional narrative series based on the concept of film noir;
- To show through your work during the course and the finished product in your portfolio your ability to think about, plan, and successfully develop, from concept to completion, a body of photographic artwork.

Generic attributes developed in this UoS
- to extend your body of knowledge in the field of photography;
- to be able to exercise critical judgement, realistic self-evaluation and imaginative thinking as outlined in the aims above;
- to extend already existing technical and conceptual abilities in photographic practice, and to understand how these skills may be applied in different situations, including your coursework program;
- develop the ability to plan, and bring to effective completion a goal through self directed practice;
- through darkroom practice learn skills in cooperation and exchange of ideas in a group work environment.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.

Student effort expected
- Contact hours 3hrs/per week
For an average student to achieve a pass level:
- Class preparation 2.5hrs/wk

AWSS 2025 **Screen Printing on Fab**
***** No info available for 2006.** ***

AWSS 2026 **Screen Printing on Paper**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** SI Intensive, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2638.. **Assessment:** Participation, process/research journal, practical studio skills, completed projects.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
This studio-based unit will introduce students to screen printing on paper, in both graphic design and contemporary art contexts. Screen-printing is most commonly known as a commercial process, however many artists have used this printmaking technique not only for its versatile aesthetic qualities but to comment on the way art is perceived in the age of mass media and consumerism.
It aims to provide students with: the knowledge and skills to design for and print on paper; awareness and appreciation of screen-printing in historical and contemporary contexts; a wide variety of techniques and exercises that can be developed into an edition or experimental series of screen-prints.
Techniques covered include: photo, wax emulsion stencils, preparation of photo-positives, ink technology, registration and print set-up for multi-coloured screen-prints. Through studio practice, set exercises, slide-lectures, gallery visits and library research students will develop an understanding of their creative process and ability to interpret ideas through the medium of screen-printing.

Objectives
On successful completion of this unit of study you will be able to use the above techniques and knowledge to produce a series of preparatory screen-printed exercises that are developed into an edition or series of experimental prints. This studio work is supported by a substantial process journal. Your journal provides evidence of a sustained level of research both in the wider field of printmaking and your own work.
You will be familiar with stencils, ink technology and a range of pre-print and print processes. A basic understanding of colour theory, composition and other formal considerations will be demonstrated through your studio work. You will have an appreciation of screen-printing in both its historical and contemporary contexts and be able to apply that knowledge to your final work. Your ability to think through a range of ideas and begin to develop original interpretations will be demonstrated in your journal and final body of w

Generic attributes developed in this UoS
Through this unit of study a student will:
- have a body of knowledge in the area of screen-printing;
- be able to develop critical thinking, realistic self-evaluation and imaginative thinking as outlined in the objectives;
- develop the ability to plan and achieve a goal through a self- directed final project;
- be able use knowledge learnt in this unit of study, (eg. interpreting creative ideas) and apply them to new situations.

Contribution of UoS to program

This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations of ideas. It gives students the opportunity for creative and imaginative expression.

Student effort expected
Contact hours: 39 hours face to face teaching./sem.
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice and gallery/studio visits and class preparation.

AWSS 2027 **Sculpture**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2636. **Assessment:** Assessment is based on attendance to classes, studio practice, research journal, seminar presentation, independent work and planning and on the conscientious attempt to develop skills and execute ideas as evident in the two completed projects.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
The aim of this unit of study is to develop knowledge and abilities in all areas, practical, historical and theoretical relevant to the making of sculpture.
You will gain competence to work with a broad range of materials and sculptural techniques such as clay modelling, plaster-mould making, casting, soldering, brazing and welding which will be used to explore elementary aspects of three-dimensional form and space. You will be required to design, plan and complete two projects, a casting in plaster and a work using metal. In addition to this you will need to independently research historical precedents and contemporary practice in sculpture and discuss your ideas and development of your work in class.

Objectives
On the successful completion of this unit of study the student will have:
- demonstrated a developed awareness and ability to interpret, evaluate and understand three-dimensional space and form relating to sculpture;
- demonstrated a developed competence in the use of a range of different material and sculptural processes and techniques;
- demonstrated initiative and resourcefulness of research, creative design and planning;
- demonstrated an ability of written, visual and verbal communication relating to the subject of sculpture and your own work.

Generic attributes developed in this UoS
Through successfully completing this unit of study you will develop the following generic skills;
- your knowledge skills, through the increased knowledge and appreciation of three-dimensional sculpture and its relevance as a contemporary medium and being able to apply theory to practise;
- your practical skills in the field of study, by developed competence in use of materials and techniques applicable to the making of sculpture;
- your thinking skills, through creative decision-making in solving problems of design, planning and construction of three-dimensional sculpture, and through realistic self-evaluating of your own work and its development;
- your personal skills and attributes, in taking personal responsibility for your learning and developing increased self-reliance and judgement of your own work.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hrs./per sem
Student effort expected for an average student to achieve a pass level result: 39 hours of self directed study, which includes a substantial process journal, research, studio practice and gallery/studio visits and class preparation.

AWSS 2028 **Web Art and Design**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 2. **Classes:** Practical studio work. **Prohibitions:** May not be counted with DESA 2640.. **Assessment:** Attendance and studio practice 20%, familiarity with software and techniques 20%, selection of a portfolio of web art representative of the exercises and projects undertaken throughout the course, 60%.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.
Aims
The web art and design unit of study aims to introduce web design and internet page creation within the context of contemporary art. The physical class will enable students to build a website using current software. The aim is to encourage engagement with the net in terms of its creative potential and cultural relevance rather than its commercial and educational uses. Students will investigate use of the internet by contemporary artists in such diverse areas as media arts, architecture, hypertext writing and other emerging forms of net art that engage with very form of the internet. Students are expected to have a basic knowledge of web design and the internet

Objectives
At the successful completion of this unit of study students will have demonstrated the skills necessary to design, build and publish your own internet site on the World Wide Web. This site will show an understanding of the complex place and construction of web art. In addition to using the latest internet browsers, students will develop a knowledge of Dreamweaver (and other contemporary software) and Photoshop and current publishing programmes. A critical awareness of web design as a contemporary visual medium will be demonstrated through discussion, a research journal and completed projects.

Generic attributes developed in this UoS
The student will:
- have a body of knowledge in the field of web art design;
- be able to apply a range of technical and conceptual skills as appropriate to the approach of web art design;
- be able to exercise critical judgement, realistic self-evaluation and imaginative thinking.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDesArch degree.
Elective in other courses.
Students able to take this unit of study are drawn from a wide range of programmes both from within the Faculty of Architecture and the wider university. It contributes to a critical awareness of art and design, an understanding of how practice and theory interrelate, develops the student's understanding of the cultural context in which they live and finally how they may develop their own interpretations and ideas.

Student effort expected
Contact hours: 39 hrs./sem.
Student effort expected for an average student to achieve a pass level result: 17 hrs research/process journal, 18 hrs independent studio time, 4 hrs presentation of final work to class, class preparation and assessment.

AWSS 2090 **Advanced Art Studio**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio work. **Prerequisites:** Any AWSS unit with a result of Credit or better. **Prohibitions:** DESA2608 or 2609. **Assessment:** Assessment is based on completed artwork for exhibition, process journal, contribution to catalogue and exhibition setup and research essay.
NB: Department permission required for enrolment. Enrolment numbers are limited by space and equipment constraints. Students should submit written permission from the Art Workshops with their request to enrol. Students may incur costs for materials in some Art Workshops units.

Aims
This unit aims to allow students to extend and develop skills and knowledge gained in the Art Studio workshops. Through an advanced use of media, art/architectural theory lectures and seminars, the production of visual research journal and a final exhibition project, students should be able to integrate their skills and knowledge in the creation of an artwork. A critical and conceptual approach to image and object making will be further developed around a set theme. The theme changes each year and will be published prior to enrolment. Students will write a 2000 word essay and present a seminar in addition to practical work. Students will also be involved in catalogue production and exhibition setup as well as a professional presentation of their work.

Objectives
At the successful completion of this unit of study students will have demonstrated an understanding of advanced principles and practice in the studio they are participating in as well as highly developed conceptual approach to the production of their artwork. Students will gain skills in researching and writing a theoretically based essay on a topic related to the year's theme, and in presenting a seminar based on a set reading. Students will gain experience in presenting and installing their artwork into an exhibition environment and contributing to a catalogue of the exhibition.
Generic attributes developed in this UoS
On successful completion of this unit, students will develop the following skills:
- critical self-reflection, through individual research and presentation, and group and peer evaluation;
- knowledge, by expanding on knowledge of the field of professional art, and applying theory to practice in a professional outcome;
- thinking, by developing creative concepts that can be applied to realistic communication contexts;
- personal, by taking responsibility for self-directed learning;
- practical, in the experimentation and generation of creative works.

Contribution of UoS to program
This unit is an elective within the Allied Arts stream of the BDes degree
Elective in other courses.

Student effort expected
Contact hours: 39 hrs./sem
Student effort expected for an average student to achieve a pass level result: class preparation and assessment: 39.hrs/wk

DAAE 2001 **20th Century Australian Architecture**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Dr Harry Margalit. **Session:** Semester 2. **Prohibitions:** May not be counted with DES A 2305..
Aims
The Unit will introduce students to a range of architectural styles and aspirations in Australia. Lectures and seminars will cover key buildings representative of their period. At the conclusion, students will be familiar with a range of styles and their characteristics. They will undertake individual self-directed research and learn how to record and present the results of this research. Students will also acquire an appreciation of the ideals and aspirations that support the architectural styles examined, and how these are related to wider social and cultural movements.

Objectives
- A familiarity with a range of Australian buildings and styles. Site tours will examine specific buildings, and these will be recorded in a site visit log.
- The ability to research, record and present a specific building in Sydney.
- The ability to link a specific building to other works of a similar style and period. This will be assessed in the seminar presentation and in the submitted essay.

Generic attributes developed in this UoS
- Research and Inquiry. Students will learn techniques of research first hand through the building they will research;
- Information Literacy. Individual research requires the identification and tracking down of primary and secondary sources;
- Personal and Intellectual Autonomy. Individual research projects promote independent judgement as to the appropriateness and significance of the building selected, and its connections to a wider intellectual context;
- Communication. Students will practice drawing and writing skills, and use appropriate digital means to record and present work.

Contribution of UoS to program
Architecture Elective in the BDes Arch. Elective in other courses.

Student effort expected
- Contact hours: 3 hrs/per week
- Class preparation: 1 hrs/wk
- Assessment preparation 26 hrs/semester

DAAE 2002 **Architecture, Place and Society**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. A/Prof Anna Rubbo. **Session:** Semester 1. **Prohibitions:** May not be counted with DESA 2211. **Assessment:** The assessment will be by two assignments: a) a 1500 word essay and b) a group or individual project requiring a research proposal, fieldwork, presentation, and reflection.
Aims
This unit aims to investigate the relationship between architecture, place and society and to explore the meaning of cultural and social sustainability in architectural design. The unit assumes that designers will increasingly work in places where cultures are unfamiliar at home or in a global context, and that an ability to understand, and interpret, diverse cultures, and the way design occurs in diverse locations, is an important area of knowledge for designers. A key aspect of social sustainability is the practice of social responsibility, and the unit explores how this may occur, including involving people in the design process.

Objectives
On completion of this unit students will be able to demonstrate:
- an ability to better understand the connections between architecture place and society, and the social,cultural, political and economic factors affecting sustainable environments;
- skills and knowledge in participatory processes necessary for effective communication about environmental design issues;
- increased critical awareness about social responsibility in relation to the practice of architecture and the design of the built environment, and an ability to exercise this awareness.

Generic attributes developed in this UoS
This unit will help develop research capacity and critical thinking, convey an ethical understanding of architecture as an imbedded social practice with responsibilities to a range of publics, lay and professional, locally, nationally and internationally, and develop new communication skills.

Contribution of UoS to program
Architecture Elective in the BDes Arch. Elective in other courses. This unit will provide architecture students with knowledge of the relationship between culture and architecture, as well as practical knowledge of the social aspects of design practice. It is intended that students from other disciplines will develop a critical awareness of the built environment as a form of cultural production, and the possibilities for their participation in its production.

*Student effort expected^*
- Contact hours: 3hrs./wk
- Class preparation: lhr/wk
- Assessment preparation: 26 hrs/semester

DAAE 2003 **Social Studies in Architecture**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. A/Prof Anna Rubbo. **Session:** Semester 2. **Prerequisites:** DAAE 2002 or DESA 2211. **Prohibitions:** May not be counted with DESA 2212. **Assessment:** Attendance; seminar presentation; Investigation of building types, requiring research proposal, and fieldwork.
Aims
Through the study of selected building types and settings this unit aims to explore the ways in which cultural and social factors influence design. Such building types might be housing, educational, religious, institutional or community buildings, and will be studied through fieldwork as well as lectures and seminars. It is intended that building types will vary each year the unit is offered, and that as appropriate there may be opportunities to apply knowledge gained to design. Through developing a capacity for critical analysis, the unit also aims to provide students with a better understanding of factors to be considered in socially responsible design.

Objectives
On successful completion of this unit students will be able to demonstrate:

- an enhanced ability to understand and interpret social and cultural factors affecting design;
- knowledge in making analyses of this type, including skills in post occupancy evaluation;
- increased awareness of social responsibility in design.

Generic attributes developed in this UoS
This unit will contribute to the development of research capacity, critical thinking, ethical, social and professional understanding, and communication skills that further learning.

Contribution of UoS to program
Architecture Elective in the BDesArch. Elective in other courses. This unit will contribute to architecture students' knowledge of the social aspects of design, and their capacity to analyse how social and cultural factors influence design. It is intended that students in other disciplines will develop a means of interpreting buildings that will enhance their appreciation of the form of the built environment.

Student effort expected
Student effort expected for an average student to achieve a pass level result includes:
- Contact hours: 3hrs /per week seminar (with an intensive component)
- Class preparation: l.hr/wk
- Assessment preparation: 25 hrs/semester

DAAE 2004 **Housing for Health**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mr Col James. **Session:** Semester 1. **Prohibitions:** May not be counted with DESA 2213 or 2214. **Assessment:** Assignment 1 - Protocol and question form: 15%. Assignment 2 - Report: 75%. Attendance and participation: 10%.

Objectives
Upon successful completion students will demonstrate:
- Evidence of reading recommended texts and reporting on health-housing theory.
- Completion of specific tasks in the measurement performance of household plumbing and electrical services and fittings against stated standards.
- Completion of Healthabitat data sheets and logging into Healthabitat analysis programs to deliver work sheets for licensed plumbers and electricians.
- Comprehension through report writing on the analyses of data, house fixing procedures and independent observations of other health risks, specifically for householders' information requiring regular maintenance and user practices.

Generic attributes developed in this UoS
Research and Inquiry:
- to exercise critical thinking and judgement in creating new understanding;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them.

Information Literacy:
- to understand economic, legal, social, cultural and other issues that may arise in using information;
- to use contemporary media and technology to access, manage and communicate information.

Ethical, Social and Professional Understanding:
- to acknowledge their personal responsibility for their own value judgements and behaviour;
- to understand and accept social, cultural, global and environmental responsibilities;
- to be committed to social justice and principles of sustainability.

Communication:
- to use oral, written, visual and other forms of communication to further their own learning;
- to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;
- to be able to relate to, and interact and work with others using a range of forms of communication;
- to be able to use various media and technology to access, use and communicate information;
- to be aware of the roles of scientific knowledge and reasoning in design practice.

Contribution of UoS to program
Architecture Elective in the BDesArch. Elective in other courses.

Student effort expected
- Intensive teaching: 12 hours
- Fieldwork, reading and preparation: 26 hours
- Task research, preparation and documentation

DAAE 2005 **Designing with Colour 1**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program, UG Summer/Winter School. Terry Purcell. **Session:** Semester 1, Summer, Semester 2, Winter. **Assumed-Knowledge:** DESA 2612 or DESA 1004. **Prohibitions:** May not be counted with DESA 2610. **Assessment:** The assessment for the unit involves an assignment that is divided into three parts each related to the three areas of knowledge presented in the unit. The three parts carry equal weighting in terms of marks.

Aims
- To make participants aware that any design decision that involves a physical material of necessity involves a decision about colour and the consequences of this fact.
- To present participants with research based information about colour and associated topics that can be used in design. This information falls into three main areas. The first relates to the basics of colour vision and includes the structure of the world of colour we experience, colour mixing, colour measurement and specification. The second area deals with relationships between areas of colour and focuses on colour contrast and colour preference and the relationship between contrast and preference. The third area is concerned with and limits on human information processing and how this will effect the response to the number of colours used in a colour design.
- To demonstrate to participants how that information can be used to understand experiences associated with specific examples of environments and the particular physical attributes of the examples associated with the experiences. This involves detailed analysis of examples that links specific areas of knowledge to particular physical attributes of the examples.
- To teach participants basic skills in using the image processing program Photoshop.
- To have participants use those skills and their knowledge about colour experience in colour design exercises that form the basis for the assignments and the assessment in the course.

In this way the unit gives participants an understanding of basic concepts about colour and how they can be used to understand the way we experience this important aspect of the environment. At the same time the unit creates a bridge between basic knowledge and how it can be used in solving problems and consequently provides a model that participants may generalize to other areas of knowledge and related problems. The nature of design problems also adds a further dimension to the learning experiences associated with the course. Design problems are ill-defined problems - problems where the information needed to solve the problem is not given as part of the problem statement and there are many possible solutions and these types of problems do not generally form a part of a students experience at the university.

Objectives
The objectives of the assessment procedure are to have participants demonstrate their understanding of the knowledge presented in each of the areas of the course and their ability to use that knowledge by –
- developing designs that achieve defined outcomes by embodying that knowledge in the design;
- by critically discussing how the designs embody the knowledge to achieve those outcomes;
- by specifically linking those outcomes to the attributes of the colours that are used in the design.

Generic attributes developed in this UoS
The unit of study addresses Faculty generic attributes of graduates in the following ways.
Research and Inquiry: The assessment in the unit of study involves participants in research in relation to developing colour schemes that achieve stated outcomes that embody the knowledge presented in the course. Each design is effectively a test of that knowledge and so can be considered a form of enquiry.
Information Literacy: The assessment requires that students use the knowledge in the different areas presented in the course in new contexts because they have to identify now the knowledge can be used in the new situations presented by the building interiors and facades they work with in producing the designs.
Personal and Intellectual Autonomy: Participants have to work independently in choosing the interiors and facades they work with to produce the design and then in the particular way in which they embody the information in the design they produce. This presents

challenges and generally promotes curiosity because the student has to see ways in which the knowledge can be applied.
Communication: The assessment in the course puts great emphasis on communicating a number of different types of information. Images are used to present the designs and words diagrams and other types of graphic communication must be used effectively to communicate the basis for the design in the research information presented in the course content.

Contribution of UoS to program
Architecture Elective in the BDesArch. Elective in other courses.

Student effort expected
This is an on-line unit of study. The basic workload is 6 hours per week for the semester. The course is divided into three sections (as outlined above) giving approximately 4 weeks for each section of the course. Given the structure of the course this means that approximately two weeks should be spent working through the concepts and associated knowledge (12 hours) and the next two weeks would be developing the designs and documentation associated with that area. (12 hours). This gives a total student effort of 78 hours for the semester.

DAAE 2006 **Designing with Colour 2**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program, UG Summer /Winter School. Terry Purcell. **Session:** Summer, Semester 1, Semester 2, Winter. **Prerequisites:** DAAE 2005 or DESA 2610. **Prohibitions:** May not be counted with DESA 2611. **Assessment:** The assessment for the unit involves an assignment that is divided into three parts related to the three areas of knowledge presented in the unit each of which carries equal weighting in terms of marks.
Aims
Participants are presented with the results of the extensive research into affective responses to colour. These affective experiences can be divided into three main areas. These are first the warmth or coolness of colours, second whether colours are exciting or calming, and third the potency of colours and colour harmony.
The results of this research are related to the colour model developed by the Swedish Colour Institute to allow the use of the research results in the development of colour designs.
As with the other courses in this series participants are expected to understand this material and to know how it can be used to analyse the experiences associated with specific examples. This is facilitated by the detailed analysis of examples as a part of the course content.

Objectives
The objectives of the assessment procedure are to have participants demonstrate their understanding of the knowledge presented in each of the areas of the course and their ability to use that knowledge by:
- developing designs that achieve defined outcomes by embodying that knowledge in the design;
- by critically discussing how the designs embody the knowledge to achieve those outcomes;
- by specifically linking those outcomes to the attributes of the colours that are used in the design.

Generic Attributes Developed in the Unit of Study
Research and Inquiry: The assessment in the unit of study involves participants in research in relation to developing colour schemes that achieve stated outcomes that embody the knowledge presented in the course. Each design is effectively a test of that knowledge and so can be considered a form of enquiry.
Information Literacy: The assessment requires that students use the knowledge in the different areas presented in the course in new contexts because they have to identify now the knowledge can be used in the new situations presented by the building interiors and facades they work with in producing the designs.
Personal and Intellectual Autonomy: Participants have to work independently in choosing the interiors and facades they work with to produce the design and then in the particular way in which they embody the information in the design they produce. This presents challenges and generally promotes curiosity because the student has to see ways in which the knowledge can be applied.
Communication: The assessment in the course puts great emphasis on communicating a number of different types of information. Images are used to present the designs and words diagrams and other types of graphic communication must be used effectively to communicate the basis for the design in the research information presented in the course content.

Contribution of UoS to program
Architecture Elective in the BDesArch. Elective in other courses.

Student effort expected
This is an on-line unit of study. The basic workload is 6 hours per week for the semester. The course is divided into three sections (as outlined above) giving approximately 4 weeks for each section of the course. Given the structure of the course this means that approximately two weeks should be spent working through the concepts and associated knowledge (12 hours) and the next two weeks would be developing the designs and documentation associated with that area. (12 hours). This gives a total student effort of 78 hours for the semester.

DAAE 2007 **Introduction to Project Management**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Dr David Gunaratnam. **Session:** Semester 2. **Prohibitions:** May not be counted with DESA 2208 or 2209.. **Assessment:** Examination, assignments, group presentation and an individual reflective learning report.
Aims
This unit of study will introduce students to the underpinning knowledge and skills in all 9 areas of project management, viz. integration, communication, human resources management, scope, time and cost management, quality, risk and procurement management. It will differentiate project life cycles from facility life cycles. In this unit the application of project management principles to the achievement of different deliverables needed in all phases of the facility life cycle will be addressed. The unit will provide practical examples and opportunities to apply the fundamentals to a range of simple projects in architecture, design, building and construction fields. The major focus is to study how the project management fundamentals can be internalised and optimised for effective and efficient management of projects of different types in the built environment. Studies will review project management application to:
- Urban planning, renewal and masterplanning;
- Feasibility studies;
- Planning and design;
- Procurement process;
- Construction process;
- Handover process and transition to lifecycle management.

Objectives
On successful completion of this unit, students will be able to:
- Demonstrate knowledge of project management fundamentals;
- Apply the project management fundamentals to other project types and endeavours;
- Use tools and techniques of project integration, communication, human resources management, scope, time and cost management, quality, risk and procurement management.
Knowledge of project management fundamentals will be assessed through a mid-semester examination. Ability to apply project management fundamentals to other project types and endeavours would be assessed by assignments and a reflective learning report. Student's effectiveness in working within a group and their ability to lead and manage will be assessed through reflective learning assignments. Group presentation will be assessed as part of the communications knowledge area.

Generic attributes developed in this UoS
The above objectives require the students to be able to relate to, and interact and work with others using a range of forms of communication, to formulate strategies to learn and meet new challenges, to identify and formulate problems, and to envisage and enact processes in response to them, to use information in critical thinking, making informed judgements and solving problems.

Contribution of UoS to program
Architecture elective in the BDesArch. Elective in other programs.

Student effort expected
- Contact hours: 3/per week
- Class preparation: lhr/wk
- Assessment preparation: 26hrs/semester

DAAE 2008 **Innovative Building Structures**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. D J Gunaratnam. **Session:** Semester 2. **Prerequisites:** DESA (2101 or 2111). **Prohibitions:** May not be counted with DESA 2206.. **Assessment:** Case Study & Modelling assignments.
This unit engages students in detailed studies of innovative building structures - both the design and construction - and modelling techniques for structural synthesis. The unit initially investigates a number of innovative building structural designs and construction methods and processes, through case studies, and explores issues

and factors that contribute to the innovative solutions. Modelling techniques are then introduced and their uses in the synthesis and analysis of innovative building structures are explored in-depth. Students are provided with experience in the computer and physical modelling of some of the advanced structures arising in the case studies.

The unit is organised around three major topics as follows:
(a) Innovative structural design
Discusses the differences between routine and innovative structural design, and identifies a set of dimensions along which the innovativeness of a structural design can be assessed. These dimensions form the basis for studying the developments in structural design to-date and for evaluating existing structural designs for their innovativeness. It also explores the different design requirements and decision criteria that lead to innovative structural solutions, in building designs, through a number of case studies.
(b) Modelling techniques
Introduces and provides the bases for a number of computer modelling techniques for advanced structures that can be used to analyse and design innovative structures. Discusses some of their limitations and explores the current developments in computational models and techniques, specifically aimed at facilitating innovative designs. Some of the physical modelling techniques and their usefulness in the exploration of innovative structural solutions are also considered.
(c) Innovative Construction
Explores construction requirements and decision criteria that lead to innovation in construction methods and processes, through selected case studies. Discusses the interactions between the innovations in structural design and in construction methods and processes.

Aims
Students are expected to be able to demonstrate a high level of competence in investigating and presenting case studies on structural design and construction, to identify and evaluate issues and factors that contribute to innovative structural solutions in case studies, to determine the relevance of the various advanced structural modelling techniques for a given building design and to demonstrate a high level of competence in computer and physical modelling of structures

Objectives
A case study assignment is used to assess the student's competence in investigating and presenting case studies and being able to identify and evaluate issues and factors contributing to innovative structural solutions. A two part modelling assignment is used to assess the competence in selecting suitable models for structural synthesis, for a given set of requirements and design criteria.

Generic attributes developed in this UoS
The above objectives require the students to be able to identify and formulate problems, and to envisage and enact processes in response to them, to recognise the extent of information needed, to use contemporary media and technology to access, manage and communicate information, to be able to respond effectively to unfamiliar problems and contexts, to be competent and creative in the use of existing knowledge, and to be aware of the roles of scientific knowledge and reasoning in design practice.

Contribution of UoS to program
Elective in Architecture Stream of the BDesArch. Elective in other programs.

Student effort expected
- Contact hours: 3/per week
- Class preparation: lhr/wk
- Assessment preparation: 26hrs/semester

DAAE 3001 **Sustainable Architectural Practice**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Bruce Forwood. **Session:** Semester 1. **Prerequisites:** DESA (2101 or 2111). **Prohibitions:** May not be counted with DESA (2202 or 2207 or 2201).. **Assessment:** Group study, individual research paper.
Aims
The unit of study begins by exploring the concept of ecologically sustainable design as it applies to architectural practice and defines those key attributes of buildings which make them sustainable. The second part of the unit discusses the implication of applying sustainable design principles upon contemporary architectural practice. Potential new design paradigms are explored which could lead to more sustainable design practice in the future.

At the end of the unit of study students will be expected to:
- Have explored the form making and space making potential of sustainable design principles by critically examining relevant contemporary architecture
- Demonstrate their ability to locate relevant published literature on sustainable architecture and to critically examine and discuss it in relation to the themes explored in the unit of study
- Demonstrate their ability to critique key recent buildings claimed by their designers to be sustainable and to evaluate these claims against established sustainable design principles
- Enunciate a personal position on the impact on applying sustainable design principles on future design practice

Objectives [a list of unit objectives expressed in terms of how that knowledge will be assessed]
On the successful completion of this unit of study students will have demonstrated:
- Competence at critically evaluating buildings which their designers have claimed to be sustainable through a series of case studies performed in small groups.
- Their ability to formulate and articulate a written response to a series of propositions developed in lectures addressing the impact of sustainability issues on future architectural practice.

Generic attributes developed in this UoS
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to be open to new ideas, methods and ways of thinking to understand and accept social, cultural, global and environmental responsibilities;
- to be committed to social justice and principles of sustainability.

Contribution of UoS to program
Architecture Elective in the BDesArch. Elective in other programs.

Student effort expected
- Contact hours: 3 hrs./per week
- Class preparation: 1 hrs/wk
- Assessment preparation: 2 hrs/wk

DAAP 3001 **Contemporary Architecture and Theory**
6 credit points. B Des Arch, UG Study Abroad Program. Mr Trevor Howells. **Session:** Semester 1. **Corequisites:** DESA 3001. **Prohibitions:** May not be counted with DESA 2302. **Assessment:** Attendance; tutorial participation; submission on selected buildings and theory.
Aims
The Unit will introduce students to key buildings and theories of architecture from 1960 to the present. Examples will be drawn from International and Australian architecture. At the conclusion students will be familiar with the buildings presented and their architects, and have some understanding of the context in which they were produced. Students will also be expected to be familiar with the examples of theory presented, and to understand their relationship to contemporary architecture.

Objectives
- Familiarity with the examples presented, requiring attendance at lectures as per faculty policy.
- In depth understanding of selected buildings and theory, assessed through graphic, model and/or written analysis.

Generic attributes developed in this UoS
- Research and Inquiry. Students will learn techniques of research first hand through the examples they will research.
- Information Literacy. Individual research requires the identification and tracking down of relevant sources.
- Personal and Intellectual Autonomy. Individual submissions on selected topics promote independent judgement as to the appropriateness and significance of the buildings selected.
- Communication. Students will practice drawing and writing skills, and use appropriate digital means to present work.

Contribution of UoS to program
BArch prerequisite in BDesArch.

Student effort expected
- Contact hours: 3 hrs/per week
- Class preparation: lhrs/wk
- Assessment preparation: 26hrs/semester

DAAP 3002 **Architectural Technologies**
6 credit points. B Des Arch, UG Study Abroad Program. Dr D Gunaratnam. **Session:** Semester 2. **Prerequisites:** DES A 3001. **Corequisites:** DESA 3002. **Prohibitions:** May not be counted with DESA (2301 or 2303). **Assessment:** Assignments (one of which is integral with another assessment task in DESA 3002) & examination.

Aims
The unit of study develops knowledge about structural and environmental control systems for medium scale non domestic buildings.

The environmental module explores sustainable environmental control technologies suitable for medium scale buildings focussing upon the integration of these technologies with constructional and structural systems and the design of the building fabric as an environmental filter. Thermal controls such as heating systems, mechanical ventilation, natural ventilation and air conditioning are studied along with electric lighting and acoustic control systems.

At the end of the unit students will be expected to formulate environmental control requirements for a medium scale building, generate and justify appropriate sustainable environmental control strategies and evaluate the performance of these strategies using appropriate analytical procedures.

The structures module is organised around three major sections - Structural Design Process, Structural Design Codes and Structural Design Information. Under Structural Design Process, the formulation of structural design requirements arising from functional, behavioural and constructional constraints is initially discussed. Then a procedure for systematically generating feasible alternative structural systems is presented. Finally the process for the evaluation of the alternative structural systems based on a set of decision criteria, to arrive at the final optimum design, is discussed. Under structural design codes, the structural design philosophies which form the basis for structural design codes are initially described, and then the provisions in the material codes for the approximate determination of design actions, and procedures for the design of typical structural elements are considered. The Structural Design Information section introduces a number of structural design aids for the selection of structural systems and for the approximate sizing of structural elements.

At the end of the unit students should be able to collect appropriate information and formulate the structural design requirements for a medium-scaled building, generate a number of alternative structural systems that satisfy these design requirements, evaluate them based on a set of decision criteria and arrive at a full description of the final structural design.

Objectives
On the successful completion of this unit of study students will have demonstrated:
In the environmental module,
- competence in formulating and justifying appropriate sustainable environmental control strategies via a report based upon, and forming part of the submission for, the major design project in DESA 3002.
- competence in evaluating their chosen strategies utilising model studies, computation and other analytical and evaluative tools.

In the structural module,
- competence at enunciating and justifying their decision making process in an assignment based on the final design project (DESA3002).
- their knowledge in making a range of structural decisions for a new building design in an open book examination.

Generic attributes developed in this UoS
- to identify and formulate problems, and to envisage and enact processes in response to them;
- to think critically, creatively and imaginatively;
- to use information in critical thinking, making informed judgements, solving problem, and in constructing knowledge and arguments;
- to be able to respond effectively to unfamiliar problems and contexts;
- to be aware of the roles of scientific knowledge and reasoning in design practice;
- to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
BArch prerequisite in BDesArch.

Student effort expected
- Contact hours: 4 /wk
- Class preparation: lhrs/wk
- Assessment preparation: lhrs/semester

DECO 1005 **Hist & Theory of Multimedia & Animation**
6 credit points. B Des Arch, B S T, UG Study Abroad Program. Prof. John Gero. **Session:** Semester 2. **Prohibitions:** DECO 2605. **Assessment:** Written reports, Oral presentations.

Aims
Students will have an understanding of the concepts and technologies in the historical development of multimedia and animation and their implications in design.

Objectives
On the successful completion of this unit of study, students will have demonstrated
- An understanding of the historical and technical developments that have lead to digital multimedia and animation through a written report and oral presentation;
- An understanding of the human physiology, such as colour perception and persistence of vision that have influenced the development of multimedia content and animation through a written report and oral presentation;
- An understanding of the implications of current technology on the development of a theory of interactive multimedia design through a written report and oral presentation.

Generic attributes developed in this UoS
Research and Inquiry:
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them;
- to critically evaluate existing understandings and recognise limitations with their own knowledge.

Information Literacy.
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to use information in critical thinking, making informed judgements, solving problem, and in constructing knowledge and arguments;
- to understand economic, legal, social, cultural and other issues that may arise in using information;
- to use contemporary media and technology to access, manage and communicate information.

Personal and Intellectual Autonomy
- to be intellectually curious and able to sustain intellectual interest;
- to be able to think rigorously and independently;
- to be open to new ideas, methods and ways of thinking;
- to be able to respond effectively to unfamiliar problems and contexts;
- to be able to formulate strategies to learn and meet new challenges;
- to be independent learners who take responsibility for their own learning, and engage in continuous reflection, self-evaluation and self-improvement;
- to have a personal vision and goals, and ability to work towards them.

Communication
- to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;
- to be able relate to, and interact and work with others using a range of forms of communication.

Contribution of UoS to program
Core for Bachelor of Design Computing, elective for Bachelor of Design Architecture.

Student effort expected
Student effort expected for an average student to achieve a pass level result:

- Contact hours: 3hrs/per week
- Class preparation: 1.5hrs/wk
- Assessment preparation: 19hrs/semester

DECO 1006 **Understanding Design & Cognition**
6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. Dr. Mike Rosenman. **Session:** Semester 1. **Prohibitions:** DECO 1004. **Assessment:** 4 written assignments and a protocol analysis report.

Aims

This unit of study aims to give the student an understanding of design as a general activity in its own right, comparative to other activities such as science and art. It aims to stress the importance of design (and its consequences) as an activity concerned with changing the state of the existing environment through a set of conscious and purposeful actions. It aims to demonstrate that the study of the design process can be undertaken in a general manner independent of any discipline through the study of design methodology and design cognition.

Objectives

On the successful completion of this unit of study, students will have demonstrated

- An understanding of the importance and generality of design as an activity by having them reflect on the nature of design across the various disciplines and its relation to other activities such as Science and Art;
- an awareness of the knowledge and processes involved in design and to apply such knowledge and processes in their approach to design, as for example in the Design Studio. This awareness is reinforced by the assignments that are designed to make students think about design objects in a more analytical fashion as well as assessing their understanding of material presented;
- an understanding of how designers think and acquire a methodology to study designers. This is reinforced by assignments which require students to study designers and report on their observations;
- an understanding of the issues involved in design thinking research and gain a knowledge of methods for studying design thinking;
- an understanding of the need for critical examination and both objective and subjective analysis and judgement through the reports submitted.

Generic attributes developed in this UoS

Graduates will be able to create new knowledge and understanding through the process of research and inquiry through:

- exercising critical thinking and judgement in creating new understanding;
- being competent and creative in the use of existing knowledge;
- thinking critically, creatively and imaginatively;
- critically evaluating existing understandings and recognise limitations with their own knowledge.

Graduates will be encouraged to use information effectively by having

- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to use information in critical thinking, making informed judgements, and in constructing knowledge and arguments;
- to use contemporary media and technology to access, manage and communicate information;
- to be aware of the range of software available for assisting preparation and presentation.

Graduates will be encouraged to work independently and in groups, in a way that is informed by openness, curiosity and a desire to meet new challenges so as

- to be intellectually curious and able to sustain intellectual interest;
- to be able to think rigorously and independently;
- to be open to new ideas, methods and ways of thinking;
- to be able to respond effectively to unfamiliar problems and contexts;
- to be able to formulate strategies to learn and meet new challenges;
- to be independent learners who take responsibility for their own learning, and engage in continuous reflection, self-evaluation and self-improvement.

Graduates will recognise and value of communication as a tool for creating new understanding, interacting with others, and furthering their own learning by

- using oral, written, visual and other forms of communication to further their own learning;
- by making effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;
- being able to relate to, and interact and work with others using a range of forms of communication.

Contribution of UoS to program

Bachelor of Design Computing core, elective in other programs.

Student effort expected

Student effort expected for an average student to achieve a pass level result

- Contact hours: 3 hrs/per week
- Class preparation: 1.5hrs/wk
- Assessment preparation: 19hrs/semester

DECO 1007 **Design Data Mgmt & Product Modelling**
6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. Dr Mike Rosenman. **Session:** Semester 1. **Prohibitions:** DECO 2004, INFO 2005.. **Assessment:** Tutorial exercises and two Project submissions.

Aims

This unit aims to give the student an understanding of the basic concepts in modelling design objects and using database management systems to represent and manipulate design data.

Objectives

On the successful completion of this unit of study, students will:

- have demonstrated an understanding of the need for modelling of design information through the project report;
- have demonstrated an understanding of the concepts underlying the modelling, storage and use of design information including both graphical and non-graphical properties, using Entity-Relation diagrams, Relational Database Management Systems, Object-oriented Database Management Systems as assessed in the project report;
- exercise critical judgment, be capable of rigorous and independent thinking and use appropriate information technology techniques to communicate their knowledge through the production of appropriate and efficient information modelling techniques and database design. This will be achieved through assessments of projects where students will select appropriate problems in which they can develop to demonstrate their ability to present their understanding of the knowledge and skills acquired;
- understand and acquire skills in standard product modeling techniques through the development of the project report;
- acquire skills in using a commercial PC based database system through tutorial exercises;
- acquire knowledge of language and standards such as SQL, XML, IFC through the tutorial exercises.

Generic attributes developed in this UoS

Graduates will be able to create new knowledge and understanding through the process of research and inquiry through

- exercising critical thinking and judgement in creating new understanding;
- being competent and creative in the use of existing knowledge;
- thinking critically, creatively and imaginatively;
- critically evaluating existing understandings and recognise limitations with their own knowledge.

Graduates will be encouraged to use information effectively by having

- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to use information in critical thinking, making informed judgements, and in constructing knowledge and arguments;
- to use contemporary media and technology to access, manage and communicate information;
- to be aware of the range of software available for assisting preparation and presentation.

Graduates will be encouraged to work independently and in groups, in a way that is informed by openness, curiosity and a desire to meet new challenges so as

- to be intellectually curious and able to sustain intellectual interest;
- to be able to think rigorously and independently;
- to be open to new ideas, methods and ways of thinking;
- to be able to respond effectively to unfamiliar problems and contexts;
- to be able to formulate strategies to learn and meet new challenges;

- to be independent learners who take responsibility for their own learning, and engage in continuous reflection, self-evaluation and self-improvement.
Graduates will recognise and value of communication as a tool for creating new understanding, interacting with others, and furthering their own learning by
- using visual and other forms of communication to further their own learning;
- by making effective use of visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
Bachelor of Design Computing core, elective in other programs.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
Contact hours: 3 hrs/per week
Class preparation: 1.5 hrs/wk
Assessment preparation: 19 hrs/semester

DECO 1008 **3D Modelling**
6 credit points. B Des Comp, B S T, UG Study Abroad Program. Dr Kirsty Beilharz. **Session:** Semester 2. **Prohibitions:** DECO 2103. **Assessment:** Tutorial exercises and two Project submissions.
NB: This unit is for BDesComp students only. Others may enrol in DECO 2103.
Aims
This unit aims to give the student an understanding of the basic concepts of modelling and presentation so that they will develop skills in creating and using 3D models for various design tasks.

Objectives
On the successful completion of this unit of study, students will have:
- demonstrated an understanding of how physical objects are represented in 3D digital models by modelling various 3D geometric entities and processes required.
- demonstrated critical judgment, be capable of rigorous and independent thinking and use appropriate information technology techniques to communicate their knowledge through the production of efficient design presentations and documentation.
- an understanding of boundary representations, solid modeling, parametric models, texture mapping, light sources, camera locations and projections, and model constraints through model development and presentation.
- acquire skills in using a 3D modelling system for 2D and 3D objects and in creating photorealistic images, movies, VR scenes, and simple animations from 3D models that accurately describe design variations, intent, and structure. These skills will be assessed through the tutorial exercises and the submission of a portfolio of 3D models.

Generic attributes developed in this UoS
Graduates will be able to create new knowledge and understanding through the process of research and inquiry through:
- exercising critical thinking and judgement in creating new understanding;
- being competent and creative in the use of existing knowledge;
- thinking critically, creatively and imaginatively;
- critically evaluating existing understandings and recognise limitations with their own knowledge.

Graduates will be encouraged to use information effectively by having
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to use information in critical thinking, making informed judgements, and in constructing knowledge and arguments;
- to use contemporary media and technology to access, manage and communicate information;
- to be aware of the range of software available for assisting preparation and presentation.

Graduates will be encouraged to work independently and in groups, in a way that is informed by openness, curiosity and a desire to meet new challenges so as
- to be intellectually curious and able to sustain intellectual interest.
- to be able to think rigorously and independently.
- to be open to new ideas, methods and ways of thinking.
- to be able to respond effectively to unfamiliar problems and contexts.
- to be able to formulate strategies to learn and meet new challenges.
- to be independent learners who take responsibility for their own learning, and engage in continuous reflection, self-evaluation and self-improvement.
Graduates will recognise and value of communication as a tool for creating new understanding, interacting with others, and furthering their own learning by
- using visual and other forms of communication to further their own learning ;
- by making effective use of visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
Bachelor of Design Computing core

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 3 hrs./per week
- Class preparation: 1.5 hrs/wk
- Assessment preparation: 19 hrs/semester

DECO 1100 **Digital Design Studio**
12 credit points. B Des Comp, B S T, UG Study Abroad Program. Dr Petra Gemeinboeck. **Session:** Semester 1. **Classes:** Lectures and studio. **Prohibitions:** DECO 1011. **Assessment:** Tutorial submissions, Preliminary Design Reports, Final Design Presentation and Report.
NB: Core unit for Bachelor of Design Computing Students only.
Aims
- Students will develop an understanding of how to conceptualise and communicate design concepts through image, shape, lines, colour, composition, morphing, layout, and text.
- Students will be introduced to digital image representation and technology through design projects.
- Students will become proficient with the elements of digital design technology including digital images, vector graphics, font, montage, photography.
- Students will develop skills in digital imaging software such as Photoshop, and graphical layout software such as Illustrator.
- Students will be develop experience with significant digital design issues.

Objectives
On the successful completion of this unit of study, students will have demonstrated
- skills in sourcing, developing, and designing a range of digital media content through a series of tutorial exercises;
- knowledge of digital design through the incremental development of a series of design projects;
- knowledge of how to incorporate frame-based animation and morphing with their digital designs through tutorial exercises.

Generic attributes developed in this UoS
- Students will identify and formulate problems by responding to a design brief with an interactive design.
- Critical thinking and judgement is integral to the evaluation and criticism of existing interactive works.
- Students will practice responding to unfamiliar problems and applying their knowledge across a range of contexts.
- A range of assessment methods including oral presentations, written criticism and multimedia designs will foster communication skills.

Contribution of UoS to program
This UoS is a core studio in the Bachelor of Design Computing program. This UoS is a foundation for knowledge of image design and digital media design techniques

Student effort expected
Student effort expected for an average student to achieve a pass level result:
Contact hours: 12hr/perweek
Class preparation: 9hrs/wk
Assessment preparation: 39hrs/semester

DECO 1200 **Interaction Design Studio**
12 credit points. B Des Comp, B S T, UG Study Abroad Program. Dr Kirsty Beilharz. **Session:** Semester 2. **Classes:** Lectures and studio. **Prerequisites:** DECO (1100 or 2101). **Prohibitions:** DECO 1021. **Assessment:** Tutorial submissions, preliminary design reports, final design presentation and report.

NB: Available for BDesComp and BST students only.

Aims

- This UoS introduces interactivity and multimedia through design projects;
- Students will develop narrative and storytelling through non-linear interactive multimedia;
- Elements of interaction design including menus, hotspots, screen design, motion, animation and sound integration will be addressed for various media, including the Internet, CD-ROMs, kiosks, interactive TV, broadcast media and DVD;
- Management and organization of interaction through storyboarding and prototyping will cultivate methodologies for responding to a brief;
- Software used includes Director, Flash, Dreamweaver.

Objectives

On the successful completion of this unit of study, students will have demonstrated

- the application of knowledge of interaction design to a range of contexts, for the Internet and standalone media, through the design project;
- knowledge of narrative and engagement in non-linear interactive contexts through the design project;
- knowledge of scripting and markup languages for enabling dynamic content and interactive designs, e.g. Lingo, ActionScript, HTML, JavaScript through tutorial exercises;
- understanding of interaction developed using mouse, keyboard, computer and traditional interfaces leads to further HCI using innovative methods of interaction in the 3rd year Interface Design Studio.

Generic Attributes developed in this UoS

- Students will identify and formulate problems by responding to a brief with an interactive design;
- Critical thinking and judgement is integral to the evaluation and criticism of existing interactive works;
- Students will practice responding to unfamiliar problems and applying their knowledge across a range of contexts;
- A range of assessment methods including oral presentations, written criticism and multimedia designs will foster communication skills.

Contribution to program

This UoS is a core studio in the Bachelor of Design Computing program. This UoS builds on knowledge of image design and foundational digital media design techniques introduced in the Digital Design Studio, integrating and applying this knowledge in the context of interactive multimedia, augmenting scripting and interaction design understanding. This UoS develops interaction narrative, engagement, curiosity and design methods using the computer interface. This UoS lays the groundwork for scripting interactivity using web-based and standalone technologies. It leads on to the subsequent Interface Design Studio which further pursues interaction, moving to mobile, wireless, haptic and spatial sensate interfaces.

Student effort expected

Student effort expected for an average student to achieve a pass level result:

- Contact hours: 12hrs/per week
- Class preparation: 9hrs/wk
- Assessment preparation: 39hrs/semester

DECO 2010 **Collaborative Virtual Environments**

6 credit points. B Arch, B Des Arch, B Des Comp, BST, UG Study Abroad Program. Prof. Mary Lou Maher. **Session:** Semester 1. **Prerequisites:** DECO (1100 and 1200) or (2101 and 2102) or INFO (1000 or 1003). **Prohibitions:** DECO 2005.. **Assessment:** Tutorial exercises, collaborative project, individual written reports, oral presentations.
NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.

Aims

- An understanding of the similarities and differences of computer-mediated and face-to-face communication;
- Skills in the use of collaborative tools such as email, shared whiteboards, bulletin boards, video conferences and shared modeling environments.

Objectives

On the successful completion of this unit of study, students will have demonstrated:

- an understanding of synchronous and asynchronous communication technologies through the collaborative project report.
- an understanding of communication and representation of design data in a computer mediated collaborative design project in the development of the collaborative project report.
- skills in using collaborative technologies in the tutorial exercises.

Contribution of UoS to program

core for Bachelor of Design Computing, elective for other programs.

Student effort expected

Student effort expected for an average student to achieve a pass level result:

- Contact hours: 3hrs/per week
- Class preparation: 1.5hrs/wk
- Assessment preparation: 19hrs/semester

DECO 2011 **Design Programming**

6 credit points. B Arch, B Des Arch, BST, UG Study Abroad Program. **Session:** Semester 1. **Prohibitions:** SOFT 1001. **Assessment:** Individual assignment using an individual electronic sketchbook API; Group project using Java on a task in a design domain; Quizes on (1) implementation of software in Java, and (2) Software design and development processes.

Aims

- An understanding of the stages involved in the development of software for design computation;
- Skills in the design and implementation of software for design tasks and in the team development of software.

Objectives

On the successful completion of this unit of study, students will have demonstrated

- Skills in using software tools to build interactive, visual design applications through individual and group programming assignments;
- Knowledge of object-oriented programming concepts through individual and group programming assignments;
- Implementation techniques such as editing, using libraries, team programming, and compilation and runtime environments through individual and group programming assignments;
- Knowledge of the Java programming language including: classes, methods, object creation, instance and local variables, primitive and object types, simple I/O, and control flow through individual and group programming assignments;
- Knowledge of software design and development processes including analysis of requirements, design of classes, software lifecycles, and managing software projects through group programming assignments.

Contribution of UoS to program

Core of Bachelor of Design Computing

Student effort expected

Student effort expected for an average student to achieve a pass level result:

- Contact hours: 3hrs per week
- Class preparation: 3hrs per week
- Assessment preparation: 19hrs per semester

DECO 2012 **Sound Design & Sonification**

6 credit points. B Des Comp, BST, UG Study Abroad Program. Dr Densil Cabrera. **Session:** Semester 2. **Classes:** Lectures, tutorials and lab sessions. **Prohibitions:** DECO 2607.. **Assessment:** tutorial exercises, design projects.
NB: Permission required unless enrolled in the Bachelor of Design Computing or the BST. Other students may apply directly to the Faculty of Architecture for a place. Enrolment limited by teaching resources.

Aims

- This UoS introduces sound as a design medium, with an emphasis on computer-based implementations;
- Real world acoustical phenomena and psychoacoustics provide an approach for sound design;
- Understanding of conceptual topics, including sound/image interaction, text and speech, auditory display, source streaming and segregation, functions for music and spatial audio are developed;
- Technical and technological issues, e.g. data formats and interfaces will be addressed;
- Students will explore methodologies for abstract information sonification and responsive sonic representations for interactive installation spaces and sensate environments;
- Generative techniques, including evolutionary and genetic algorithms, Artificial Life and stochastic computational processes for creating new sound designs are investigated;
- This UoS considers the contribution of sound design to ambient music, interactive responses and way finding cues in interactive virtual environments.

Objectives
On the successful completion of this unit of study, students will have demonstrated
- Knowledge of responsive interaction and sound design to a range of contexts through design projects;
- Application of conceptual knowledge using current sensate, interactive and virtual environment technologies through design projects;
- Skills in computer-based implementation of sound design key principles through tutorial exercises;
- Understanding of sound design, especially in relation to interactive contexts, links to virtual environment design, the digital design studio and sound utilized in interactive multimedia through design projects;
- Understanding of the transformation of abstract data into sonification (shares a conceptual grounding with information visualization) through design projects.

Generic Attributes developed in this UoS
- Students will identify and formulate problems by responding to a brief with an interactive design;
- Critical thinking and judgement is integral to the evaluation and criticism of existing interactive works;
- Students will practice responding to unfamiliar problems and applying their knowledge across a range of contexts;
- A range of assessment methods including oral presentations, written criticism and multimedia designs will foster communication skills.

Contribution to program
This is a core unit in the BDDesComp. It connects directly with Virtual Environment Design, the Visualization Studio and Interaction Design and develops the students' design capability in the domain of digital sound.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 3 hrs/per week
- Class preparation: 1.5 hrs/wk
- Assessment preparation: 19 hrs/semester

DECO 2013 **Generative Design Systems**
6 credit points. B Arch, B Des Arch, B Des Comp, B S T, UG Study Abroad Program. Prof John Gero. **Session:** Semester 2. **Prerequisites:** DECO 2011 or SOFT 1001. **Prohibitions:** DECO (2601 or 2602 or 2603). **Assessment:** 3 programming assignments and reports.
NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing students will receive preference.
Aims
Students will have an understanding of a range of algorithms that can automatically generate designs, such as genetic algorithms, simulated annealing, shape grammars, and swarm intelligence.

Objectives
On the successful completion of this unit of study, students will have demonstrated
- Knowledge of the use of an existing generative program to generate a family of designs and report on how the algorithm works through the programming assignment and report;
- Knowledge of how to extend a selected program by using scripting to address specific design goals and forms through the programming assignment and report;
- Skills in implementing a generative design system through the programming assignment and report.

Contribution of UoS to program
Bachelor of Design Computing core

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 3hrs/per week;
- Class preparation: 1.5hrs/wk;
- Assessment preparation: 19hrs/semester.

DECO 2101 **Digital Image Design** & **Rep**
6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. Dr Petra Gemeinboeck. **Session:** Semester 1. **Classes:** Lectures and computer labs. **Prohibitions:** DECO (1001 or 1100). **Assessment:** Tutorial submissions, Individual project submissions.
NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.
Aims
- Students will be introduced to digital image representation and technology;
- Students will become proficient with the elements of digital design technology including digital images, vector graphics, font, montage, photography;
- Students will develop skills in digital imaging software such as Photoshop, and graphical layout software such as Illustrator.

Objectives
On the successful completion of this unit of study, students will have demonstrated
- skills in sourcing, developing, and designing a range of digital media content through a series of tutorial exercises;
- knowledge of how to incorporate frame-based animation and morphing with their digital designs through tutorial exercises.

Generic attributes developed in this UoS
Graduates will be able to create new knowledge and understanding through the process of research and inquiry through
- exercising critical thinking and judgement in creating new understanding;
- being competent and creative in the use of existing knowledge;
- thinking critically, creatively and imaginatively;
- critically evaluating existing understandings and recognise limitations with their own knowledge.
Graduates will be encouraged to use information effectively by having
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to use information in critical thinking, making informed judgements, and in constructing knowledge and arguments;
- to use contemporary media and technology to access, manage and communicate information;
- to be aware of the range of software available for assisting preparation and presentation.
Graduates will be encouraged to work independently and in groups, in a way that is informed by openness, curiosity and a desire to meet new challenges so as
- to be intellectually curious and able to sustain intellectual interest;
- to be able to think rigorously and independently;
- to be open to new ideas, methods and ways of thinking;
- to be able to respond effectively to unfamiliar problems and contexts;
- to be able to formulate strategies to learn and meet new challenges;
- to be independent learners who take responsibility for their own learning, and engage in continuous reflection, self-evaluation and self-improvement.
Graduates will recognise and value of communication as a tool for creating new understanding, interacting with others, and furthering their own learning by
- using visual and other forms of communication to further their own learning;
- by making effective use of visual and other forms of communication to critique, negotiate, create and communicate understanding.
Contribution of UoS to program
Part of the Digital Architecture stream in the BDesArch. Not available in the BDesComp. Elective in other programs.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 3 hrs/per week
- Class preparation: 1.5hrs/wk
- Assessment preparation: 19hrs/semester

DECO 2102 **Interactive Multimedia Design**
6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. Kirsty Beilharz. **Session:** Semester 2. **Prerequisites:** DECO 2101. **Prohibitions:** DECO (1002 or 2002 or 1200). **Assessment:** Tutorial submissions, preliminary design reports, final design presentation and report.
NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.
Aims
- This UoS introduces interactivity and multimedia through design projects;
- Students will develop narrative and storytelling through non-linear interactive multimedia;

- Elements of interaction design including menus, hotspots, screen design, motion, animation and sound integration will be addressed for various media, including the Internet, CD-ROMs, kiosks, interactive TV, broadcast media and DVD;
- Management and organization of interaction through storyboarding and prototyping will cultivate methodologies for responding to a brief;
- Software used includes Director, Flash, Dreamweaver.

Objectives
On the successful completion of this unit of study, students will have demonstrated
- the application of knowledge of interaction design to a range of contexts, for the Internet and standalone media, through project submissions;
- knowledge of narrative and engagement in non-linear interactive contexts through project submissions;
- knowledge of scripting and markup languages for enabling dynamic content and interactive designs, e.g. Lingo, ActionScript, HTML, JavaScript through tutorial exercises;
- understanding of interaction developed using mouse, keyboard, computer and traditional interfaces through tutorial exercises.

Generic Attributes developed in this UoS
- Students will identify and formulate problems by responding to a brief with an interactive design;
- Critical thinking and judgement is integral to the evaluation and criticism of existing interactive works;
- Students will practice responding to unfamiliar problems and applying their knowledge across a range of contexts;
- A range of assessment methods including oral presentations, written criticism and multimedia designs will foster communication skills.

Contribution to program
Part of the Digital Architecture stream in the BDesArch. Not available in the BDesComp. Elective in other programs.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 12hr/per week
- Class preparation: 9hrs/wk
- Assessment preparation: 39hrs/semester

Textbooks
Chun, Russel (2002) Macromedia Flash MX Advanced for Windows and Macintosh. Visual QuickPro Guide, Peachpit Press, Berkeley, CA, USA.

DECO 2103 **3D Modelling**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Dr Kirsty Beilharz. **Session:** Semester 2. **Prohibitions:** DECO1008. **Assessment:** Tutorial exercises and two project submissions.
NB: Department permission required for enrolment. Places in this unit are limited by teaching resources. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.
Aims
This unit aims to give the student an understanding of the basic concepts of modelling and presentation so that they will develop skills in creating and using 3D models for various design tasks.

Objectives
On the successful completion of this unit of study, students will have demonstrate:
- an understanding of how physical objects are represented in 3D digital models by modelling various 3D geometric entities and processes required.
- critical judgment, be capable of rigorous and independent thinking and use appropriate information technology techniques to communicate their knowledge through the production of efficient design presentations and documentation.
- an understanding of boundary representations, solid modeling, parametric models, texture mapping, light sources, camera locations and projections, and model constraints through model development and presentation.
- acquire skills in using a 3D modelling system for 2D and 3D objects and in creating photorealistic images, movies, VR scenes, and simple animations from 3D models that accurately describe design variations, intent, and structure. These skills will be assessed through the tutorial exercises and the submission of a portfolio of 3D models.

Contribution of UoS to program
Part of the Digital Architecture stream in the BDesArch. Not available in the BDesComp. Elective in other programs.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 3hrs/per week
- Class preparation: 1.5hrs/wk
- Assessment preparation: 19hrs/semester

DECO 2204 **Principles of AutoCAD**
6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. **Session:** Semester 2. **Classes:** Initiating lecture, with self directed on-line information transfer primarily via WebCT thereafter. **Prohibitions:** DESA 1202 or DESC (9101 or 9163). **Assessment:** 1. CAD tutorial; 2. Personal modelling project; and 3. Oral test.
NB: Permission required unless enrolled as an undergraduate in the Faculty of Architecture or the BST Other students may apply directly to the Faculty of Architecture on a quota basis.
Objectives
- Introduce knowledge and skills required for computer aided production and presentation of 1) 2D draughting and 3D modelling, for design and documentation and 2) visualisations of constructed object designs;
- Develop computing skills in the use of object oriented 3D modelling tools to produce and display accurate models of domestic scale buildings and structures;
- Introduce issues, principles and practice of model organisation, production and presentation, including design analysis, model structuring, documentation and economy of means.

Description
AutoCAD is considered an industry standard CAD application for many design professions, combining both traditional drawing and object oriented CAD functionalities. This unit of study introduces the use of AutoCAD tools for drawing, modelling and visualisation, structured by means of layers and blocks.
Outcomes
Competencies in the use of AutoCAD software will be sufficient for students to be able to produce computer generated:
- Multilayered 2D design and construction drawings, complete with dimensions, notations and conventional drawing graphics;
- 3D wireframe, surface and solid models;
- 3D parallel and perspective representations with shaded, coloured or rendered surfaces;
- Computer based presentations that enhance and extend design communications.

DECO 2205 **Principles of ArchiCAD**
6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. **Session:** Semester 1. **Classes:** Initiating lecture, with self directed on-line information transfer primarily via WebCT thereafter. **Prohibitions:** DESA 1201 or DESC (9100 or 9162). **Assessment:** 1. CAD tutorial; 2. Personal modelling project; and 3. Oral test.
NB: Permission required unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students may apply directly to the Faculty of Architecture on a quota basis.
Objectives
- Introduce knowledge and skills required for computer aided production and presentation of 1) 2D draughting and 3D modelling, for design and documentation and 2) static and dynamic visualisations of constructed object designs;
- Develop computing skills in the use of object oriented 3D modelling tools to produce and display accurate models of domestic scale buildings and structures;
- Introduce issues, principles and practice of model organisation, production and presentation, including design analysis, model structuring, documentation and economy of means.

Description
ArchiCAD is an object-oriented CAD application developed especially for documenting and creating 3D visualisation of buildings. This unit of study introduces the use of object tools for modelling and displaying 3 dimensional building elements such as walls, slabs, columns, beams and roofs, structured by means of layers and storeys.
Outcomes
Competencies in the use of ArchiCAD software will be sufficient for students to be able to produce computer generated:
- Multilayered 2D design and construction drawings, complete with dimensions, notations and conventional drawing graphics;
- 3D parallel and perspective representations with shaded, coloured or rendered surfaces;
- Static and dynamic presentations that enhance and extend design communications.

DECO 2606 **Real Time 3D Multimedia**
6 credit points. B Arch, B Des, B Des Arch, B Des Comp, B S T, UG Study Abroad Program. Dr Andrew Vande Moere. **Session:** Semester 2. **Prerequisites:** DECO (1008 or 2103) and (SOFT 1001 or DECO 2011). **Assessment:** Mastery Tasks (6 tasks, 5 marks each, 30%), Assignments (3 group works, 10 marks each, 30%) and Project (1 project, 40%).
NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BSTstudents will receive preference.
Aims
The aim of this unit is to introduce the principles of real-time 3D multimedia content development. It aims at providing a means for the students to integrate and relate previous studies and prepare for the final year Integrated Design Computing Studio. The students are encouraged to apply the skills and knowledge obtained in this course through active participation in concurrent digital competition.
By the end of this UOS, students will be able to:
- understand the principles of real-time 3D multimedia content development
- select appropriate software and platform for project-specific design and implementation.
- integrate and relate previous studies in design computing and digital media.
- apply real-time 3D graphics and computing in dynamic and interactive website production.
Content:
This UoS is structured in 5 parts, consisting of 12 lectures, 6 tutorials, 2 presentations and 2 consultations. It provides an introduction to the use of real-time 3D multimedia content. A theoretical perspective includes digital design, virtual dimension and virtual interaction. A practical perspective includes real-time multimedia platform, 3D multimedia content development software, data resources, behaviour building blocks, schematic, 3D layout and level management.
Topics include:
- Digital Design
- Virtual Dimension
- Virtual Interaction
- Real-time Multimedia Platform: DirectX, OpenGL, etc.
- 3D Multimedia Content Development Software: 3DS, DirectX, Virtools, etc
- Data Resources: 2D sprites, 3D sprites, 3D entities, behaviour graphs, characters, sounds, textures
- Behaviour Building Blocks: 3D transformations, cameras, characters, collisions, controllers, dynamics, logics, mesh modifications, particles, visuals and world environment
- Schematic: attribute, path, hierarchy, and parameter
- 3D layout and Level Manager
Objectives
- Objectives of the course include:
- Introduce the principles of real-time 3D multimedia content development.
- Introduce game-engine-based interactive multimedia platforms and software
- Enhance outcomes in Design Studio by integrating previous studies in audio & video editing, digital image representation, CAD and web-based software development.
- Prepare for the final year Integrated Design Computing Studio.
- Encourage participation in concurrent digital competition.
- Encourage imaginative, effective and confident self-representation by means of design computing knowledge and digital media.
This unit will contribute to the students in:
- Generic skills by means of collaborative activities.
- Analytical skills by literature review, software & website evaluation.

DECO 3003 **Design Computing Research Opportunity**
6 credit points. B Arch, B Des, B Des Arch, B Des Comp, B S T, UG Study Abroad Program. Prof John Gero. **Session:** Semester 2. **Classes:** Seminars, meetings. **Assumed-Knowledge:** Computer programming. **Prerequisites:** 96 credit points and minimum WAM of 65. **Assessment:** Two progress reports each 15% and final report worth 70%.
NB: Department permission required for enrolment. Non Architecture students may apply directly to the Faculty of Architecture.
Aims
The aim of the Design Computing Research Opportunity is to allow a student to participate in each phase of research activity:
- developing a research plan in conjunction with the staff member,
- proposal writing,
- conducting research,
- analyzing data, and
- presenting results in oral and written form.
At the end of the unit the student will have experience in developing research proposals, conducting research and presenting their results.
Content
Design Computing Research Opportunity offers the opportunity for a BDesComp student to work with an academic staff member on research-based intellectual collaborations. The student works on an existing research activity of the staff member. It can be one of the most important means for students to develop an understanding of research as an intellectual endeavour and to foster mentoring research relationships with academic staff.
Objectives
- the research proposal, which is the first progress report, will demonstrate the student's ability to work within an existing research
- the second progress report will identify the student's capacity to work on a research project within an existing research program and becomes a demonstration of the research skills being developed
- the final report will take the form of a research paper and is used to develop the student's skills in presenting research results
This unit will contribute to the students in:
- thinking skills through its focus on critical judgement, independent thinking and problem solving
- practical skills through data development and analysis and hypothesis testing.

DECO 3005 **Advanced Interactive Multimedia Design**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B S T, B Sc (Arch), UG Study Abroad Program. Dr. Kirsty Beilharz. **Session:** Semester 1. **Classes:** Seminars, online tutorials and reading modules. **Prerequisites:** DECO (1200 or 2102). **Prohibitions:** DESC 9142.. **Assessment:** Exercises and major design authoring project demonstrating understanding and implementation of interactive interface design principles.
NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and BST students will receive preference.
Objectives
- To develop a comprehensive understanding of interactive multimedia;
- To extend fundamentals learned in Interactive Multimedia Design (DECO 2002) and Web-based Design Information Systems (DECO 1002);
- To understand how humans interact with computers;
- To develop interface design that elicits engagement and interaction;
- To develop an advanced knowledge of screen design principles and navigational methodologies.

Description
This unit aims to develop a comprehensive understanding of multimedia authoring, extending fundamentals learned in Interactive Multimedia Design and Web-based Design Information Systems. Students will investigate effective navigational and design strategies for engaging interactive multimedia interface design. Students will develop an understanding of 2D vector-based animation and navigational techniques applied to a project authored with Macromedia Flash. ActionScripting knowledge will be developed to extend the generative, interactive, and external data interfacing capabilities of the authoring environment. Final projects will demonstrate implementation and understanding of aesthetic design principles, design architecture, and effective, efficient interactive interface design. Innovative applications of interactive multimedia, for example generative and real-time design and interactive navigational systems will extend the understanding of interface design. Students will develop further understanding of HCI and develop strategies to apply this understanding to interactive design projects. Delivery, integration of media, controlling audio and video, and a grammatical and conceptual understanding of scripting in Flash will be treated as an extension of these interactive capabilities.

Outcomes
- A well-developed understanding of human-computer interaction demonstrated through the structure and design of an interactive multimedia project;
- An understanding of efficient navigational and innovative interface design eliciting user interaction and demonstrated knowledge of responsive multimedia;
- An understanding of technical methods to link content and external data to the multimedia product.

DECO 3006 **Principles of 3D Animation**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B S T, B Sc (Arch), UG Study Abroad Program. Dr Kirsty Beilharz. **Session:** Semester 1. **Classes:** Lectures and tutorials. **Prerequisites:** DECO (1008 or 2103). **Prohibitions:** DESC 9019 or 9141. **Assessment:** Project work involving design and implementation demonstrating understanding of 3D modelling, motion, lighting, rendering and principles of animation in 3D.

NB: Department permission required for enrolment. First preference given to third year students in the Bachelor of Design Computing or the Bachelor of Science & Technology. Other students may apply directly to the Faculty of Architecture on a quota basis.

Objectives

- To introduce the computer animation process in 3D
- To understand 3D modeling, texturing, rendering, and lighting
- To develop an understanding of motion, kinematics and basic animation

Description

This Elective forms an introduction to the 3D computer-based animation process from understanding 3D modelling, texturing, rendering and lighting to developing time-based sequences involving relative motion of objects, character animation, the skeleton, skinning, kinematics and polygons. The objective of this unit is to acquire basic animation skills, transfer traditional animation principles to computer graphics, and develop the skills to create an animated sequence in 3D. Basic knowledge will be related to foundational technical skills in AliasWavefront Maya and aims to serve as an introduction to further animation learning.

Outcomes

- To acquire an understanding of animation in relation to 3D computer graphic software To understand the concepts and implementation of modeling principles involving light, texture and polygonal shapes;
- Applied basic knowledge of animation to characters demonstrated in a significant project.

DECO 3007 **Designing Tangible Computing**

6 credit points. B Arch, B Des Arch, B S T, UG Study Abroad Program. Dr Andy Dong. **Session:** Semester 2. **Prerequisites:** DECO (1200 or 2102) and (DECO 2011 or SOFT 1001). **Assessment:** Formative assessments (60%) consisting of small tasks related to technologies required to complete design project; Summative assessment (40%) consisting of a prescribed final design project.

NB: Places in this unit are limited by teaching resources. If your attempt to enrol online is refused please apply directly to the Faculty of Architecture for a place. Bachelor of Design Computing and B ST students will receive preference.

Aims

To operate hardware and software toolkits to design tangible devices incorporating computing, network communication, and human-computer interfaces

- To understand protocols including Bluetooth and RF for communication among networked devices;
- To understand the functionality of sensors as a means for computational devices to detect data about the environment;
- To integrate hardware and software for the design and implementation of embedded computing products for ubiquitous computing.

Objectives

On the successful completion of this unit of study, students will have demonstrated

- The ability to develop software for real-time control of computer-driven devices to communicate with networked devices and to receive data from sensors through formative assessments;
- The ability to design a device capable of autonomously detecting context and reacting to the context through final design project;
- The ability to describe methodologies for the design of tangible computing devices through a written report of the function, structure, and behaviour of the device.

Generic attributes developed in this UoS

Develop advanced technical analytical capabilities through the reading and analysis of extensive technical documentation and specifications to complete complex tasks

- Learn technical writing skills associated with documenting the design of their tangible computing device;
- Build confidence in understanding advanced technologies by selecting, evaluating, and applying appropriate ones for the design project.

Contribution of UoS to program

Elective

Student effort expected

Student effort expected for an average student to achieve a pass level result:

- Contact hours: 3 hrs/per week
- Class preparation: 1.5hrs/wk
- Assessment preparation: 19 hrs/semester

DECO 3008 **Design Computing Prep Hons Research**

6 credit points. B Des Comp. Prof Mary Lou Maher. **Session:** Semester 1. **Classes:** Weekly Seminars. **Prerequisites:** 72 credit points and minimum WAM of 70. **Prohibitions:** DECO 2604.. **Assessment:** Research area summary report (40%), research proposal report (60%).

NB: Department permission required for enrolment.

Aims

- provide an overview of the Faculty's research projects in design computing;
- provide an overview of research methods in design computing;
- provide instruction on how to write a preliminary research proposal for a project in design computing.

Content

This is a seminar unit of study in which the academic staff in design computing and cognition will present their research projects to the potential honours students. The students will also be taught how to prepare a preliminary research project proposal and be introduced to some of the research methods used in design computing.

Objectives

A preliminary research proposal will demonstrate the student's ability to identify a research area and a preliminary research plan.

DECO 3100 **Information Visualisation Design Studio**

12 credit points. B Des Comp, B S T. Dr Petra Gemeinboeck. **Session:** Semester 1. **Prerequisites:** DECO (1100 and 1200) or DECO (2101 and 2102). **Prohibitions:** DECO 3001. **Assessment:** Tutorial exercises, design project reports, final design presentation and report.

NB: BDesComp and BST students only.

Aims

The field of information visualization focuses on how non-physical data can be effectively represented to users, in an interactive and automatic way. This unit of study will introduce the principles of information visualization design, with special attention to metaphoric mapping, human-computer interaction, user engagement, and interdisciplinary insights. Topics will include:

- abstract data visualization (graphical, ambient or non-visual);
- metaphor creation & evaluation;
- interdisciplinary influences;
- server-side programming & client-side scripting;

Objectives

After successful completion of this unit of study, students will have acquired:

- an awareness of information visualization issues through reviews of significant research publications;
- a research methodology by the development of a relevant research paper;
- design skills required to develop an information visualization prototype using a real-world dataset;
- relevant knowledge about tools and programming languages that process data on the server-side and present information interactively on the client-side.

Generic attributes developed in this UoS

- to think critically, creatively and imaginatively;
- to exercise critical thinking and judgement in creating new understanding;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
- to use information in critical thinking, making informed judgements, solving problem, and in constructing knowledge and arguments;
- to use contemporary media and technology to access, manage and communicate information;
- to be open to new ideas, methods and ways of thinking;
- to be able to respond effectively to unfamiliar problems and contexts;
- to have a personal vision and goals, and ability to work towards them;
- to strive for truth, honesty, integrity, open-mindedness, fairness and generosity;
- to have an appreciation of and respect for diversity;
- to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;
- To be competent and creative in the use of existing knowledge;
- To be able to use various forms of design representation, drawings, physical and digital models in particular, in preparing and presenting design proposals;
- To be aware of the roles of scientific knowledge and reasoning in design practice;

- To be able to make short oral presentations to explain and justify design proposals;
- To be aware of the roles of scientific knowledge and reasoning in design practice;

Contribution of UoS to program
Core unit for Bachelor of Design Computing students only.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 12hrs/per week
- Class preparation: 9hrs/wk
- Assessment preparation: 39hrs/semester

DECO 3200 **Human-Computer Experience Des Stdo**
12 credit points. B Des Comp, B S T. Dr Andy Dong. **Session:** Semester 2. **Classes:** Lectures and studio. **Prerequisites:** DECO 3100 or DECO (2101 and 2102 and (DECO 2011 or SOFT 1001)). **Prohibitions:** DECO 3002.. **Assessment:** Comprehensive capstone design project; studio participation; fortnightly design tasks.
NB: BDesComp and BST students only.
New technologies in design computing have the potential to not only improve the quality of designs, but to change the way we design and the kinds of design we create. Meanwhile the tethering of humans to machines constructs an intimacy which pushes human-computer interaction (HCI) towards human-computer agency. What new capacity exists when people and machines are brought together in the embodiment of agency? This unit of study will cover designing innovative and novel forms of human computer interaction, and the design of HCI for objects that have information content, embedded computation, and intelligence. The students will explore through designing the evolution of design computing from one in which humans manipulate computing to create objects to one in which humans and computing devices co-create objects that create humanistic experiences.

Aims
The unit of study aims to graduate the students from the degree with the confidence to apply their design computing and digital media skills to a wide array of design problems that they may encounter in various industries. Upon completion of this unit of study, students will have demonstrated the capacity to investigate and integrate advanced design computing technologies into the design of objects with novel forms of human computer interaction. The unit of study also reinforces the students' experiences in designing through reflection-in-action of the design process.

Objectives
This unit of study has three objectives situated in two learning contexts: studio and classroom. The studio context encapsulates the first two objectives. First, the unit of study is operationally focused. The classroom context enables the lecture component of the subject. The lectures will introduce the students to philosophical and technical perspectives on designing products with an emphasis on the human element.
On the successful completion of this unit of study, students will have demonstrated:
- An understanding of user-centered design (UCD), and through this process, realize an operational prototype of an interactive computing product. The operational prototype is the primary vehicle of assessment.
- Skills in advanced design computing technologies through the tutorial exercises. These skills will enable the students to complete the design project; the capacity of the students to utilize and extend these skills will be assessed by the embodiment of these skills in the final design. The course incorporates all of the skills that the students have developed throughout their studies in design computing and digital media not only in the realization of the product for the project but also in the interim submissions.
- An understanding of philosophical and technical perspectives on designing products with an emphasis on the human element will be assessed through studio critique and commentary, and written essays.

Generic attributes developed in this UoS
- An ability to speak and write critically and creatively about the art, craft and technology embodied by their final design project.
- Information literacy and inquiry skills associated with investigating advanced design computing technologies required for the synthesis of the design project.
- Confidence and maturity to work independently on a complex design project while cultivating social proficiency and open-mindedness to offer and provide critique within a professional and collegial environment

Contribution of UoS to program
Core for the Bachelor of Design Computing.

Student effort expected
Student effort expected for an average student to achieve a pass level result:
- Contact hours: 12hrs/per week
- Class preparation: 9hrs/wk
- Assessment preparation: 39hrs/semester

DECO 3441 **Design Computing Independent Study A**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Computing topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Computing. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DECO 3442 **Design Computing Independent Study B**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Computing topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Computing. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DECO 3443 **Design Computing Independent Study C**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 2, Semester 1. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Computing topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Computing. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DECO 3444 **Design Computing Independent Study D**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 2, Semester 1. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Computing topic;

- To develop skills in independent study;
- To develop advanced report writing skills.

Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Computing. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- A reflective report on a selected topic demonstrating mastery of the topic.

DECO 3551 **Design Computing General Elective A**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch), UG Summer/Winter School. **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, and supervised computer lab time as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DECO 3552 **Design Computing General Elective B**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 2, Semester 1. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, and supervised computer lab time as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DECO 3553 **Design Computing General Elective C**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, and supervised computer lab time as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DECO 3554 **Design Computing General Elective D**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, and supervised computer lab time as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DECO 4001 **Design Computing Honours Research A**
12 credit points. B Des Comp (Hons). Prof. John Gero. **Session:** Semester 1, Semester 2. **Prerequisites:** Completion of the Pass degree. Students in the Bachelor of Design Computing will require a WAM of at least 70.
NB: Department permission required for enrolment. Students in the Faculty of Science should apply for honours to their own faculty office.
Students must submit an Honours application form. Entry into Honours in the Bachelor of Design Computing requires you to have completed your pass degree with a Weighted Average Mark of at least 70.
Students enrol into 48 credit points by taking Design Computing Honours Research A and B in the first semester and C and D in the second semester.

DECO 4002 **Design Computing Honours Research B**
12 credit points. B Des Comp (Hons). **Session:** Semester 1, Semester 2. **Corequisites:** DECO 4001.
Design Computing Honours.

DECO 4003 **Design Computing Honours Research C**
12 credit points. B Des Comp (Hons). **Session:** Semester 1, Semester 2. **Corequisites:** DECO 4002.
Design Computing Honours.

DECO 4004 **Design Computing Honours Research D**
12 credit points. B Des Comp (Hons). **Session:** Semester 1, Semester 2. **Corequisites:** DECO 4003.
Design Computing Honours.

DESA 1001 **Design Practice 1A**
12 credit points. B Des, B Des Arch, UG Study Abroad Program. Professor Tom Heneghan. **Session:** Semester 1. **Classes:** Studio, lectures, seminars, field trips, workshops, laboratories. **AssumedKnowledge:** HSC Mathematics, HSC English Standard. **Corequisites:** DESA1101. **Assessment:** This will be in the form of specific, short exercises and attendance, a design proposal presentation to a jury and a record of the design process undertaken.
Aims
Designing components of the built environment is a complex process in which all graduates of the BDesArch are require to be skilled at a pre-professional level. Design process are complex because a statement of what is to be designed always contains only part of the information needed to produce a design, and also does not specify the required physical form of the object to be designed. Designing therefore involves identifying the issues relevant to each specific design and its context or setting, and undertaking appropriate design processes which interpret, apply and integrate the relevant knowledge into a single design. This knowledge broadly concerns aspects of inhabiting, designing and constructing the built environment as it relates to the human, environmental, cultural, social and technological contexts, which influence the form of the built environment.
The unit will study the built environment at the scale of towns and suburbs, focussing on the design of an individual element, such as a small building and its associated outdoor places.
The unit will focus on developing your learning, and feedback forms of assessment will be used throughout the unit to inform you of your progress and help your learning. The value of peer and collaborative learning for feedback and development will also be introduced.
Learning in this unit will be extended by study of wider aspects of the knowledge in the concurrent unit DESAl 1001 Design Studies 1 A. The unit is also directly linked to the following July Semester unit DESA 1002 Design Practice IB. It will involve a sequential development of learning to apply knowledge and skills in designing at an introductory level.

Objectives
On the successful completion of this unit you will have demonstrated your ability to:
1. explore and apply at a basic level key aspects of knowledge about the built environment through specific design exercises, including:

- taking one set of knowledge about the building to a more detailed design development stage, the construction shown in a framing model;
- using at a basic level, direct precedents of similar buildings, that relate to specific knowledge issues, informing decision making in your design processes;
- using at a basic level simple methods for starting your design process, and carrying out basic iterative processes for testing, evaluating and developing your designs;
- gaining basic skills in aspects of knowledge and in basic drawing and modelling conventions demonstrated through mastery tasks;
- keeping a record of this material.

2. reflect on your design processes through a daily journal, and through preparing from this and your recorded material a Reflective Process Record, in which you describe and comment on these processes.
3. make a basic self-assessment of your design processes and design outcomes, and identifying some key ways to improve these, through your Design Review.

Generic attributes developed in this unit
- Research and Inquiry. You will be introduced to identifying the issues which influence design, making informed decisions and then reflective and critical evaluation of these as the beginning of a cycle of inquiry. Through accounting for your decision-making in designing, and through being realistic self-evaluator in your Design Review and Design Process Record and by adopting a problem-solving approach and by creative and imaginative thinking in solving design problems you will develop your critical skills.
- Information Literacy. Each stage of the design exerises will be documented and presented in a relevant medium, including textual, verbal, graphic, modelled and computer aided means.
- Personal and Intellectual Autonomy. Each design exercise is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief. Your life-long learning skills will be developed through taking personal responsibility for your learning, developing increased self-reliance and developing your judgement in designing.
- Ethical, Social and Professional Understanding.. Evaluating your own work and development will lead to effective reflective professional practice and life-long learning.
- Communication. In both tutorials and presentations, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique. Working collaboratively with peers as well as with architectural professionals develops communication skills.

Contribution of unit of study to its program
This is a core unit of study and is mandatory for the BDesArch. It is central to the program, and it relates directly to the practice of the profession of Architecture and all its related forms.

Total student workload effort required
To achieve a good Pass level result the effort is 2 hrs per credit point (12) per week of semester (13 weeks):
- Contact hours:12hrs./per week =156 hrs per Semester;
- Class preparation: 8 hrs/wk =104 hrs per Semester;
- Assessment preparation: 52 hrs per Semester.

DESA 1002 **Design Practice IB**
12 credit points. B Des, B Des Arch, UG Study Abroad Program. Professor Tom Heneghan. **Session:** Semester 2. **Classes:** Studio, lectures, seminars, field trips, workshops, labs. **Prerequisites:** DESA (1001 and 1101). **Corequisites:** DESA1102. **Assessment:** This will be in the form of specific, short exercises and attendance, with the main summative assessment tasks being a major design proposal presentation to a jury and a record of the design process undertaken.

Aims
The aim of this unit is to build on and extend the skills and knowledge you gained in Design Practice 1A and provide you with more complex design problems in which to apply these. These design problems will require you to resolve a greater number of key design issues and to use new conceptual knowledge as well as that learnt previously. Through this unit of study you will explore and use more complex direct precedents used in urban design and in architecture. You will study the built environment at the scale of a town. You will explore this context in depth, applying the understanding you gain to the process of designing a building and its outdoor places in an urban context. You will also be provided with more sophisticated techniques for design and precedent representations. Through engaging in and reflecting on the iterative learning situations provided in this unit of study and your own response to them, you will develop your ability in and understanding of architectural design and the process of designing.

Objectives
On the successful completion of this unit you will have demonstrated your ability to:
1. analyse and interpret the physical, historical and cultural landscape context of architecture through completing a study and report on the development of a small town.
2. explore and apply key aspects of knowledge about the built environment through designing a building, its interior and exterior spaces, and its streetscape to 'sketch plan' stage. Through this you will have demonstrated your ability to:
- take one set of knowledge about the building to a more detailed design development stage, in this case, the interior of one room;
- use direct precedents of urban contexts, and aspects of buildings with similar purpose, spatial organisation, material use, structure and environmental issues, to inform your decision making in your design processes;
- test, evaluate and develop your designs through an iterative design process;
- communicate your ideas and design representations through drawing and modelling conventions and verbally;
- keep a comprehensive record of your design process.

3. reflect on your design processes through keeping a daily journal, and through preparing from this and your recorded material a Reflective Process Record, in which you describe and comment on these processes.
4. evaluate other students design outcomes and evaluate your own design processes and design outcomes, identifying key ways to improve these, through your Design Review.

Generic attributes developed in this unit
- Research and Inquiry. Through the critical evaluation and interpretation exercises, and requirements of brief and site in the projects, and the research and evaluation of both, basic research skills and the ability to creatively reflect will be developed. Through accounting for your decision-making in designing, and through being realistic self-evaluator in your Design Review and Design Process Record; by adopting a problem-solving approach and by creative and imaginative thinking in solving design problems, specifIc skills in research and inquiry will be developed.
- Information Literacy. Each stage of the design exerises will be documented and presented in a relevant medium, including textual, verbal, graphic, modelled and computer aided means.
- Personal and Intellectual Autonomy. Each design exercise is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief. Your life-long learning skills will be developed through taking personal responsibility for your learning, developing increased self-reliance and developing your judgement in designing.
- Ethical, Social and Professional Understanding. You will develop your abilities in social and ethical responsibility through taking a position and defending it in your design project. Evaluating your own work and development will lead to effective reflective professional practice and life-long learning.
- Communication. In both tutorials and presentations, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique. Working collaboratively with peers as well as with architectural professionals develops communication skills.

Contribution of unit of study to its program
This is a core unit of study and is mandatory for the BDesArch. It is central to the program, and it relates directly to the practice of the profession of Architecture and all its related forms.

Total student workload effort required:
To achieve a good Pass level result the effort expected is 2 hrs per credit point (12) per week of semester (13 weeks):
- Contact hours:12hrs./per week =156 hrs per Semester;
- Class preparation: 8 hrs per week =104 hrs per Semester;
- Assessment preparation: 52 hrs per Semester.

DESA 1004 **Designing with Surfaces and Light**
6 credit points. B Des Arch, UG Study Abroad Program, UG Summer/Winter School. **Session:** Semester 1, Semester 2, Summer, Winter. **Classes:** On-line delivery. **Prohibitions:** May not be counted with DESA 2612..

Aims
An essential part of the way we experience the three dimensional world we live in results from the way in which light interacts with the surfaces. One way of thinking about architectural design is in terms of making decisions about the surfaces that make up both the external forms of buildings and define the spaces within the building and the way they will interact with light. However in making these decisions about these physical properties of the environment designers are also determining how people will experience these environments.

This unit of study introduces the basic knowledge needed to understand the way surfaces are experienced and the role that light and surface properties play in that experience. In particular the unit deals with the following:
- The basic properties of light and the way these properties effect the behaviour of light in a three dimensional environment and the experience of the environment;
- The basic visual process associated with dealing with change in light intensity within the environment and the seeing of detail;
- Surface (micro) structure and the interaction of light and surface structure;
- The experience of texture and pattern;
- Reflection of light off a surface and effects on perceived surface properties;
- Selective absorption of light by a surface and perceived colour space and colour.

In addition to knowledge about these aspects of the experience of surfaces and light, the way in which this knowledge can be used to understand our experience of the environment is illustrated by the detailed analysis of examples of both everyday and designed environments. Participants in the course then demonstrate their understanding of the knowledge presented and the way that it can be used to understand our experience of the environment by finding and analysing their own environmental examples. It is the analysis of their own examples that forms the basis for the assessment in the course.
For students in the Faculty of Architecture this course introduces them to knowledge about important aspects of the way we experience the built environment and how this knowledge may be used in the design of built environments.

Participants in the course from other Faculties are also introduced to knowledge about our experience of the environment but in addition they obtain insights into the nature of design and how design embodies abstract knowledge in specific physical artefacts.

Objectives
On completing this unit of study successfully you will have demonstrated your ability to take the knowledge presented in each of the above areas and apply it in analyzing specific environmental examples. In this way you will have demonstrated both their mastery of the knowledge in each area and your ability to use that knowledge.

Generic Skills
Through successfully completing this unit of study you will further develop the following generic skills that are required attributes of graduates of the University of Sydney:
- Your knowledge skills through an increase in the depth and extent of your knowledge in these areas and your ability to apply this knowledge in specific contexts;
- Your thinking skills through the cognitive processes and skills required to bring the knowledge and the examples into alignment;
- Your personal skills through developing your ability to plan and achieve personal goals in an online environment and through developing your ability to work with others to achieve common goals;
- Your personal attributes particularly through taking responsibility for your own learning through the planning necessary to take advantage of the flexibility offered by online learning;
- Your practical skills in the field of study

Contribution of unit to programs
By providing a focus on knowledge about the experience of surfaces and light and the way in which this knowledge can be used in designing the environment students in the Bachelor of Design in Architecture and the Bachelor of Design Computing are provided with knowledge that can inform their future design activities and relate their designs to important aspects of the way people will experience the environment.

Participants from other programs in the University will gain an understanding of these aspects of the way we experience the environment and an understanding of how design can be used to produce environments that will be experienced in particular ways.

These studies will also provide a solid foundation for further study or research in both professional and scholarly contexts.

Attendance, Requirements, Assessment
The content of each of these areas of knowledge and the examples that illustrate the content will all be available in online format. The aim is to provide flexibility for participants in the times at which they interact with and revise the material and to allow participants to plan their time effectively.

Assessment for the unit is by assignment. The assignment is divided into two parts. The first part of the assignment involves finding examples that illustrate the content in the first half of the course and explaining how the examples illustrate that content. The first part of the assessment is submitted mid- way through the study period. The aim of this is to provide participants with feedback that can inform their work in the second part of the assignment. The second part of the assignment covers the remainder of the material in the course and is submitted at the end of the study period. For both parts of the assignment example assignments will be emailed to participants to provide an indication of what is required.

Assumed knowledge
There is no assumed knowledge for this course.

Unit of study presenter and coordinator
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DESA 1005 **Mathematics and Science in Architecture**
6 credit points. B Des Arch, UG Study Abroad Program. Dr Simon Hayman. **Session:** Semester 1. **Prohibitions:** May not be counted with DESA 2626.. **Assessment:** Exercises and assignment.
Aims
The unit provides an introduction to the role of mathematics and science in. the history and practice of architecture. An understanding of both of these facets is required to see how they have played, and continue to play, important roles in quantitative and theoretical aspects of architecture. To this end, it aims to provide essential background mathematical and scientific knowledge and skills for further mandatory and elective units of study in architectural science, design practice and history and theory.

Objectives
On successful completion of the unit of study each student will have:
- Demonstrated awareness of the rational tradition in architecture through attendance and lectures and background readings;
- Demonstrated acquisition of knowledge and skills in mathematics and science related to architecture, including problem analysis and rational argument, through successful completion of assessment tasks.

Generic attributes developed in this UoS
- To be open to new ideas, methods and ways of thinking;
- To be aware of the roles of scientific knowledge and reasoning in design practice;
- To use information in critical thinking, making informed judgements, solving problems, and in constructing knowledge and arguments;
- To make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
Mathematical, scientific knowledge and skills covered in this unit will provide foundations for assumed knowledge in other areas of further study such as structures, environmental sciences and practice. In addition it will assist in providing a broader view of the historical and theoretical context of architecture.

Student effort expected
- Contact hours: 4 hrs/per week (lecture and tutorial)

Student effort expected for an average student to achieve a pass level result
- Class preparation: 0.5 hrs/wk
- Assessment preparation: 19 hrs/semester

DESA 1101 **Design Studies 1A**
6 credit points. B Des, B Des Arch, B Des Comp, UG Study Abroad Program. Dr Simon Hayman. **Session:** Semester 1. **AssumedKnowledge:** HSC Mathematics and HSC English Standard or equivalent. **Corequisites:** DESA1001. **Assessment:** Exercises, assignments, quizzes and examinations. Overall assessment grading will be Pass/Fail result only.

Aims
This unit introduces conceptual, precedent and procedural knowledge about inhabiting, designing and constructing the built environment focussing upon essential foundation knowledge and skills. These will be drawn upon in the co-requisite unit of Design Practice 1A and will be assumed and developed in a number of following core, and elective, units of study. The material is presented in modules:
History & Theory
The aim of this module is to establish a basic comprehension of the cultural context, influences on and historical precedents of our present built environment which will allow exploration of other cultural 'histories', including architectural movements and theories, at a later stage.
Environment & Sustainability
Introduces fundamentals of the operation of climatic, ecological and energy systems and their impact. The aim of this module is to provide a basic understanding of these issues in order to subsequently study environmental and ecological sustainability issues in relation to the built environment.
Environment & Behaviour
Basic knowledge about the physical, sensory and behavioural relationship between people and the environment is introduced. The aim of this module is to provide knowledge as a necessary prelude to studying environmental cognition and interaction and its impact on spatial experience and construction at a later stage.
Structures
The module aims to introduce students to a fundamental understanding of how structures are realised including basic structural knowledge. This includes an understanding of the basic properties of common structural materials, the ability to recognise simple structural types and the behaviour of structural elements to provide a basis for assembling structural systems.

Objectives
On successful completion of this unit of study each student will have:
- Demonstrated an awareness of core issues in inhabiting, designing and constructing the built environment by attendance and background reading.
- Demonstrated an understanding of key issues and impacts involved with the natural world, including climatic and ecological systems, as a setting for sustainable design through assignment and examination.
- Analysed, evaluated and justified environmental issues of a site and its context, and the environmental impact of a building on its surroundings through exercises in the co-requisite unit.
- Demonstrated an understanding of the physical, sensory, behavioural and ergonomic relationship between people and the everyday and designed environments through exercises and examination.
- Demonstrated a basic comprehension of the cultural context, influences on and historical precedent of our present built environment through an assignment.
- Demonstrated an understanding of basic principles of structure including an understanding of the basic properties of common structural materials, the ability to recognise simple structural types and the behaviour of structural elements through quizzes and examination.

Generic attributes developed in this UoS
- To locate available information efficiently and effectively;
- To evaluate information and its sources;
- To use information in critical thinking, making informed judgements, solving problems, and in constructing knowledge and arguments;
- To understand and accept social, cultural, global and environmental responsibilities and principles of sustainability;
- To make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
This is a core unit for the BDesArch. It unit introduces foundation knowledge about the built environment which is required for a wide range of following units in particular those in Design Practice.

Student effort expected for an average student to achieve a pass level result:
- Contact hours: 6 hrs/per week (lecture and tutorial)
- Class preparation: 1 hrs/wk
- Assessment preparation: 26 hrs/semester

DESA 1102 **Design Studies IB**
6 credit points. B Des, B Des Arch, B Des Comp, UG Study Abroad Program. Trevor Howells. **Session:** Semester 2. **Prerequisites:** DESA (1001 and 1101). **Corequisites:** DESA1002.. **Assessment:** Exercises, assignments, quizzes and examinations. Overall assessment grading will be Pass/Fail result only.

Aims
Design Studies IB presents additional conceptual, precedent and procedural knowledge about inhabiting, designing and constructing the built environment to that presented in Design Studies 1A and Design Practice 1 A. It extends previously presented knowledge in both depth and breadth and is applied in the co-requisite unit, Design Practice IB. The material is presented in modules:
History & Theory
This module commences a survey history of the built environment. The aim of this module is to establish a basic comprehension of major historical developments as a basic component of architectural literacy, in particular historical precedents for design practice.
Environment & Sustainability
Introduces applications of ecological sustainability to design practice. Concepts of "passive" design techniques related to building siting, form and planning are introduced with the aim of providing design knowledge especially for use in the co-requisite unit, Design Practice IB, and later.
Environment & Behaviour
The behavioural relationship between people and the environment is expanded to the domain of environmental cognition and interaction including cultural and social settings. The aim of this module is to provide knowledge about such settings which can be used to analyse design situations and applied in design outcomes.
Structures & Construction
This module expands upon the knowledge presented in Design Studies 1 A. The repertoire of structural materials elements and systems, to provide a basis for selecting appropriate structural systems for design problems, is expanded. Constructional knowledge for small scale buildings, including systems, materials and methods, is introduced to facilitate the practical development of design solutions in practice.

Objectives
At the successful completion of this unit each student is expected to have:
- Demonstrated an increased awareness of core issues in inhabiting, designing and constructing the built environment by attendance and background reading.
- Demonstrated a comprehension of major architectural historical developments, including individual buildings, designers and intellectual context through exercises and examination.
- Demonstrated a basic understanding of key issues in sustainability in the built environment and their application by exercises including in the co-requisite unit.
- Demonstrated an understanding of environmental cognition and interaction with everyday and designed environments through exercises and assignment.
- Demonstrated an understanding of more advanced principles of structural behaviour and materials through quizzes and examination.
- Demonstrated an ability to assemble structural materials, elements and types into a functioning structural system through exercises in the co-requisite unit.
- Demonstrated an understanding of the common construction systems and materials of the major building elements for small scale buildings through exercises and assignment.
- Demonstrated an ability to apply constructional knowledge of small scale buildings through exercises in the co-requisite unit.

Generic attributes developed in this UoS
- To locate available information efficiently and effectively;
- To evaluate information and its sources;

- To use information in critical thinking, making informed judgements, solving problems, and in constructing knowledge and arguments;
- To understand and accept social, cultural, global and environmental responsibilities and principles of sustainability;
- To make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
This unit is core for the BDesArch. The unit introduces additional foundation knowledge about the built environment which is required for a wide range of following units in particular those in Design Practice.

Student effort expected
- Contact hours: 6 hrs/per week (lecture and tutorial);
Student effort expected for an average student to achieve a pass level result:
- Class preparation: 1 hrs/wk;
- Assessment preparation: 26 hrs/semester.

DESA 2001 **Design Practice 2A**
12 credit points. B Des, B Des Arch, UG Study Abroad Program. **Session:** Semester 1. **Classes:** Delivery mode: Studio, lectures, seminars, field trips, workshops, labs. **AssumedKnowledge:** DESA1101 andDESA1102. **Prerequisites:** DESA1001 and DESA1002. **Corequisites:** DESA (2101 or 2111). **Assessment:** This will be in the form of specific, short exercises and attendance, with the main summative assessment tasks being a major design proposal presentation to a jury including the technical aspects of the design and a record of the design process undertaken.
Aims
The main aim of this unit of study is to develop of your design understanding and skills. This includes encouraging you in the pursuit of excellence in all aspects of designing the built environment. To do this it requires you to apply, and extend, the knowledge and abilities which you gained Design Practice 1A and IB, and Design Studies 1A and IB. To achieve this aim, there is an increase both in the complexity of a design situation, in terms of the number of key issues, and in the level of resolution expected of you in dealing with these. You will continue to study the built environment at the scale of the urban form of a neighbourhood in a city. You will focus on the interplay between interior of a building and its context, both physical and cultural. You will explore the formulation of simple environmental, structural and constructional strategies that enhance the environmental and physical quality of the built environment and the experience of those who use it, and support the intent and aims of your design. Your abilities in testing, evaluating and developing your design processes will also be developed, including both physical and digital modelling. Collaborative working within groups will continue to be emphasised as a key way to learn designing. Through engaging in, and reflecting on your design processes within the iterative learning situations provided in this unit of study, you will develop your ability to evaluate those design processes, and develop them to improve your design outcomes.

Objectives
On the successful completion of this unit you will have demonstrated skill in your ability to:
1. Analyse and interpret the relationship between the interior and exterior physical form and fabric of a building, and its physical, historical and cultural context through completing a series of case studies;
2. Explore and apply key aspects of knowledge, through designing a building, its interior and exterior spaces, and its streetscape to 'sketch plan' stage. Through this you will have demonstrated your ability to:
- use appropriate knowledge and strategies from precedents related to specific design issues, including social dimensions;
- express an understanding of personal and interpersnal interaction;
- devise appropriate environmental strategies supporting the design intent and the experience of environmental quality, issues, opportunities and impact of a building on its surroundings, including its streetscape;
- devise appropriate structural and constructional strategies which support the design intent;
- use appropriate construction and structural systems in the design of a small-scale building;
- test, evaluate and develop your designs through an iterative design process;
- communicate your ideas and design representations through skillful manual and digital drawing and modelling, and verbally;
- keep a comprehensive record of your design process.
3. Reflect on your design processes through keeping a daily journal, and through preparing from this and your recorded material a Reflective Process Record, in which you describe and comment on these processes;
4. Evaluate other students design outcomes, comparing key issues to your own;
5. Evaluate your own design processes and design outcomes, identifying key ways to improve these, through your Design Review.

Generic attributes developed in this unit
- Research and Inquiry. Through the critical evaluation and interpretation of brief and site, and the research and documentation of both, research skills and the ability to creatively formulate specific lines of inquiry will be developed. Through accounting for your decision-making in designing, and through being realistic self-evaluator in your Design Review and Design Process Record; by adopting a problem-solving approach and by creative and imaginative thinking in solving design problems, specific skills in research and inquiry will be developed.
- Information Literacy. Each stage of the design analysis and development will be documented and presented in a relevant medium, including textual, verbal, graphic, modelled and computer aided means.
- Personal and Intellectual Autonomy. Each design is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief. Your life-long learning skills will be developed through taking personal responsibility for your learning, developing increased self-reliance and developing your judgement in designing.
- Ethical, Social and Professional Understanding. Both the analytic and design phases of the unit are structured by the ethics and aspirations of individual students. These guide the development of the design, and in the process are questioned and clarified through the tutorial and the jury critique processes. Evaluating your own work and development will lead to effective reflective professional practice and life-long learning.
- Communication. In both tutorials and jury critiques, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique. Working collaboratively with peers and with consultants as well as with architectural professionals develops communication skills.

Contribution of unit of study to its program
This is a core unit of study for the BDesArch. It is central to the program, and it relates directly to the practice of the profession of Architecture and all its related forms.

Total student workload effort required
To achieve a good Pass level result the student effort required is 2 hrs per credit point (12) per week of semester (13 weeks):
- Contact hours: 12hrs./per week = 156 hrs per Sem;
- Class preparation: 6 hrs/wk = 78 hrs per Sem;
- Assessment preparation: 78 hrs per Sem.

DESA 2002 **Design Practice 2B**
12 credit points. B Des, B Des Arch, UG Study Abroad Program. **Session:** Semester 2. **Classes:** Studio, lectures, seminars, field trips, workshops, labs. **AssumedKnowledge:** DESA 1101 and DESA 1102. **Prerequisites:** DESA 2001 and either (DESA 2101 or 2111). **Assessment:** This will be in the form of specific, short exercises and attendance, with the main summative assessment tasks being a major design proposal presentation to a critique jury and the technical design development of this design.
Aims
The main aim of this unit of study is to contribute to the progressive development of your design education. This includes encouraging you in the pursuit of excellence in design. You will be required not only to apply understanding you demonstrated previously, but learn new ways of designing. To achieve this aim, there is once again an increase in the complexity of the design project, in the level of resolution and expertise expected of you in dealing with these. You will be exploring architecture as an expressive language. You will be addressing built form and architectural space on an extensive site, taking into account the adjoining architectural and cultural context. You will be required to research your project, use all your abilities in testing, evaluating and developing your design,and develop to a higher level your presentation skills, manual and computerOaided drawing skills and modelling. You will be required to demonstrate the technical solutions integral to your design.
Collaborative working within groups will continue to be emphasised as a key way to learn designing.

Through engaging in, and reflecting on your design processes within the iterative learning situations provided in this unit of study, you will develop your ability to evaluate those design processes, and develop them to improve your design outcomes.

Objectives
On the successful completion of this unit you will have demonstrated an advanced skills in your ability to develop and apply knowledge in designing and therefore to:
1. Investigate a site to inform your design;
2. Explore architectural form in a landscape, using use architectural elements as an expressive language at a broad scale;
3. Develop the design of a part of the project to a detailed level and demonstrate the use of architectural elements as an expressive language this scale;
4. Demonstrate the technical solution to the design of this detailed section in required areas of environmental design, structure, construction, site planning, ergonomic planning;
5. Explore and apply key aspects of knowledge, demonstrating your ability to:
- use appropriate knowledge and strategies from precedents related to specific design issues;
- express an understanding of personal and interpersonal interaction, and planning strategies;
- devise appropriate environmental strategies supporting the design intent and the experience of environmental quality, issues, opportunities and impact of a building on its surroundings, including its streetscape;
- devise appropriate structural and constructional strategies and systems which support the design intent;
- test, evaluate and develop your designs through an iterative design process;
- communicate your ideas and design representations through skillful manual and digital drawing and modelling, and verbally;
- keep a comprehensive record of your design process;
- reflect on your design processes through keeping a daily journal, and through preparing from this and your recorded material a summarised Reflective Process Record, in which you describe and comment on these processes;
- evaluate other students design outcomes, comparing key issues to your own;
- evaluate your own design processes and design outcomes, identifying key ways to improve these, through your Design Review.

Generic attributes developed in this unit
- Research and Inquiry. Through the critical evaluation and interpretation of brief and site, and the research and documentation of both, research skills and the ability to creatively formulate specific lines of inquiry will be developed. Through accounting for your decision-making in designing, and through being realistic self-evaluator in your Design Review; by adopting a problem-solving approach and by creative and imaginative thinking in solving design problems, specific skills in research and inquiry will be developed.
- Information Literacy. Each stage of the design analysis and development will be documented and presented in a relevant medium, including textual, verbal, graphic, modelled and computer aided means.
- Personal and Intellectual Autonomy. Each design is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief. Your life-long learning skills will be developed through taking personal responsibility for your learning, developing increased self-reliance and developing your judgement in designing.
- Ethical, Social and Professional Understanding. Both the analytic and design phases of the unit are structured by the ethics and aspirations of individual students. These guide the development of the design, and in the process are questioned and clarified through the tutorial and the jury critique processes. Evaluating your own work and development will lead to effective reflective professional practice and life-long learning.
- Communication. In both tutorials and jury critiques, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique. Working collaboratively with peers and with consultants as well as with architectural professionals develops communication skills.

Contribution of unit of study to its program
This is a core unit of study for the BDesArch. It is central to the program, and it relates directly to the practice of the profession of Architecture and all its related forms.

Total student workload effort required
To achieve a good Pass level result the student effeot expected is 2 hrs per credit point (12) per week of semester (13 weeks):
- Contact hours:12hrs./per week =156 hrs per sem;
- Class preparation: 6 hrs/wk = 78 hrs per sem;
- Assessment preparation: 78 hrs per sem.

DESA 2111 **Design Studies 2**
6 credit points. B Des Arch, UG Study Abroad Program. David Gunaratnam. **Session:** Semester 1. **Prerequisites: DESA1102. Corequisites: DESA 2001. Prohibitions:** May not be counted with DESA 2101. **Assessment:** Exercises, quizzes, assignments and examinations.
Aims
Design Studies 2 presents additional conceptual, precedent and procedural knowledge about inhabiting, designing and constructing the built environment to that presented in Design Studies 1A and IB. It further extends previously presented knowledge in both depth and breadth. The material is presented in modules:
History & Theory
This module concludes a survey history of the built environment started in Design Studies IB. The aim of this module is to establish a basic comprehension of major historical developments as a basic component of architectural literacy, in particular historical precedents for design practice.
Environment & Sustainability
Environmental evaluation, performance and design techniques and are expanded in this module, particularly in relationship to aspects "passive" design and the environmental response of the building envelope with the aim of providing detail design knowledge especially for use in design practice.
Structures
This module introduces a greater variety of structural element types available for assembling structural systems and subsystems in buildings to increase the informed range of choice available to students. To this end it introduces behavioural models, for understanding and predicting the behaviour of different structural assemblies. It also explores the relationship between structural form, action and efficiency, especially through the use of physical models, to develop a better understanding structural efficiency in design.
Construction
Constructional knowledge is explored through a study of the various systems used for ground, floor, wall, roof and opening construction, including their details, to provide students with constructional literacy for design practice.

head6>Obj ectives
At the successful completion of this unit each student is expected to have:
Demonstrated an increased awareness of core issues in inhabiting, designing and constructing the built environment by attendance and background reading;
- Demonstrated a comprehension of major architectural historical developments, including individual buildings, designers and intellectual context through exercises and examination;
- Demonstrated a basic understanding of principles in environmental performance, passive design and sustainability in the built environment through examination;
- Demonstrated an understanding of the application of issues in environmental performance, passive design and sustainability by exercises including in design practice;
- Demonstrated an understanding of more advanced principles of structural behaviour, assemblies and efficiency through quizzes and examination;
- Demonstrated an ability to assemble structural materials, elements and types into a detailed functioning structural system through exercises in design practice;
- Demonstrated a more advanced understanding of the common construction systems and materials of the major building elements through exercises and assignment;
- Demonstrated an ability to apply detailed constructional knowledge of small scale buildings through exercises in design practice.

Generic attributes developed in this UoS
To locate available information efficiently and effectively
- To evaluate information and its sources;

- To use information in critical thinking, making informed judgements, solving problems, and in constructing knowledge and arguments;
- To understand and accept social, cultural, global and environmental responsibilities and principles of sustainability;
- To make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding.

Contribution of UoS to program
Core
Student effort expected
- Contact hours: 6 hrs/per week (lecture and tutorial)
Student effort expected for an average student to achieve a pass level result:
- Class preparation: 1 hrs/wk
- Assessment preparation: 26 hrs/semester

DESA 3001 **Design Practice 3A**
12 credit points. B Des, B Des Arch. Ms Kristine Sodersten. **Session:** Semester 1. **Classes:** Studio, lectures, seminars, field trips, workshops, laboratories. **Prerequisites:** DESA (2002 and (2101 or 2111)). **Corequisites:** DESA 2302 or DAAP 3001. **Assessment:** This will be in the form of specific, short exercises and attendance, with the main summative assessment tasks being a major design proposal presentation to a critique jury and the technical design development of this design.
Aims
The aim of this unit of study, together with the following unit, Design Practice 3B, is to develop your architectural design abilities in all areas to a pre-professional level. Consistent with the aims of the course as a whole, you will be required to demonstrate the progressive use of the understanding you have gained in all your previous core units of study. In this unit, and also in Design Practice 3B, you will be engaged in architecture at the scale of the city. In both units of study the emphasis is on complex, medium scale design projects, resolved to increasingly high level of competence as you move from Design Practice 3 A to 3B. As projects of this type are usually the result of collaboration between teams of architects and other design professionals, including consultants, there is an increasing emphasis placed upon collaborative working with consultants, within groups. You will also be required interpret multiple levels of complex interacting design issues, problems and opportunities. These will include site, context and programmatic issues, organisational, formal, spatial and compositional issues, and programming interpretation.
The technical design skill and knowledge you will be required to understand and demonstrate includes the following:
- the design of key aspects of the internal environment of a medium scale building and impact of design decisions upon aspects of the external environments;
- the construction and materiality of your designs particularly typical systems of construction for medium scale buildings and their adaptation for particular circumstances;
- sufficient structural understanding to develop architectural structural strategies for medium scale buildings.
To support this, you will be required to interpret precedent and case studies. You will also be introduced to the basic understanding of the legal and regulatory environment in which buildings are constructed. High skills in communicating your designs in verbal and in graphic and modelled form, manual and digital, will be required to clearly demonstrate your understanding at the high level of pre-professionalism required in this unit.

Objectives
On the successful completion of this unit you will have demonstrated through the assessment tasks an advanced ability to discover, locate, develop and apply knowledge in designing, and you will have demonstrated:
- a highly developed ability to reflect upon, evaluate, understand and improve your own designing.
- a high level of ability in communicating and expressing your design intent, concepts and proposals.
- your ability at a high level of competence to interpret multiple levels of complex interacting design issues, problems and opportunities.
- your understanding, at a high level of competence, of required environmental, regulatory, construction, structural, contextual, formal, spatial, organisational, material, programmatic and programming issues, through embodying your knowledge in the proposal and detailed development of your building design.
- research and scholarship used to inform your design decisions at all levels, including the study of precedents.
- self-reliance, initiative and resourcefulness in finding information, references, precedents, case studies etc for the project, and self-direction in learning.

Generic attributes developed in this unit
- Research and Inquiry. Through the critical evaluation and interpretation of brief and site, and the research and documentation of both, research skills and the ability to creatively formulate specific lines of inquiry will be developed. Through accounting for your decision-making in designing, and through being realistic self-evaluator; by adopting a problem-solving approach and by creative and imaginative thinking in solving design problems, specific skills in research and inquiry will be developed.
- Information Literacy. Each stage of the design analysis and development will be documented and presented in a relevant medium, including textual, verbal, graphic, modelled and computer aided means.
- Personal and Intellectual Autonomy. Each design is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief. Your life-long learning skills will be developed through taking personal responsibility for your learning, developing increased self-reliance and developing your judgement in designing.
- Ethical, Social and Professional Understanding. Both the analytic and design phases of the unit are structured by the ethics and aspirations of individual students. These guide the development of the design, and in the process are questioned and clarified through the tutorial and the jury critique processes. Evaluating your own work and development will lead to effective reflective professional practice and life-long learning.
- Communication. In both tutorials and jury critiques, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique. Working collaboratively with peers and with consultants as weil as with architectural professionals develops communication skills.

Contribution of unit of study to its program
This is a core unit of study for the BDesArch. It is central to the program, and it relates directly to the practice of the profession of Architecture and all its related forms.

Total student workload effort required
To achieve a good Pass level result the expected student effort is 2 hrs per credit point (12) per week of semester (13 weeks):
- Contact hours: 12hrs./per week = 156 hrs per sem;
- Class preparation: 6 hrs/wk = 78 hrs per sem;
- Assessment preparation: 78 hrs per sem.

DESA 3002 **Design Practice 3B**
12 credit points. B Des, B Des Arch. Kristine Sodersten. **Session:** Semester 2. **Classes:** Studio, lectures, seminars, field trips, workshops. **Prerequisites:** DESA 3001. **Corequisites:** DESA (2301 and 2303) or DAAP 3002.. **Assessment:** This will be in the form of specific, short exercises and attendance, with the main summative assessment tasks being a major design proposal presentation to a critique jury and the technical design development of this design.
Aims
The aim of this unit of study, together with Design Practice 3 A, is to develop your design abilities in all areas, both pragmatic and poetic, to a pre-professional architectural level. Consistent with the aims of the course as a whole, you will be required to use and build on the understanding you have gained in all your previous core units of study. You will be engaged in architecture at the scale of the city in complex, medium scale design projects, resolved to a higher level of complexity and skill in Design Practice 3B than was the case in Design Practice 3A. There is an increasing emphasis placed upon working with consultants, and on collaborative working within groups. You will also be required to use a high level of interpretative skill to address complex levels of interacting design issues relating to site and context, program, form and composition, spatial issues, strategies for the impacts of design decisions upon internal and external environments, construction and materiality of your designs particularly standard systems of construction and their adaptation to particular circumstances and architectural structural strategies for buildings of this scale. To support this, you will be required to interpret precedent and case studies at a high level. Your highest skills in communicating your designs in verbal and in graphic and modelled form, both manual and digital, will be required to clearly demonstrate your understanding at the high level of pre-professionalism required in this unit.

Objectives
On the successful completion of this unit you will have demonstrated through the assessment tasks an advanced ability to discover, locate, develop and apply knowledge in designing, and you will have demonstrated:
- a highly developed ability to reflect upon, evaluate, and improve your own designing.
- a high level of ability in communicating and expressing your design intent, concepts and proposals.
- your ability at a high level to interpret multiple levels of complex interacting design issues, problems and opportunities.
- your high level of understanding of required environmental, constructional and structural issues, and contextual, formal, spatial, organisational and programming issues, through embodying your knowledge in the proposal and in the detailed development of your building design.
- research and scholarship used to inform your design decisions at all levels, including the study of precedents.
- self-reliance, initiative and resourcefulness in finding information, references, precedents, case studies etc for the project, and self-direction in learning.

Generic attributes developed in this unit
- Research and Inquiry. Through the critical evaluation and interpretation of brief and site, and the research and documentation of both, research skills and the ability to creatively formulate specific lines of inquiry will be developed. Through accounting for your decision-making in designing, and through being realistic self-evaluator; by adopting a problem-solving approach and by creative and imaginative thinking in solving design problems, specific skills in research and inquiry will be developed.
- Information Literacy. Each stage of the design analysis and development will be documented and presented in a relevant medium, including textual, verbal, graphic, modelled and computer aided means.
- Personal and Intellectual Autonomy. Each design is an individual work, undertaken under guidance but developing the particular interests of the student within a common brief. Your life-long learning skills will be developed through taking personal responsibility for your learning, developing increased self-reliance and developing your judgement in designing.
- Ethical, Social and Professional Understanding. Both the analytic and design phases of the unit are structured by the ethics and aspirations of individual students. These guide the development of the design, and in the process are questioned and clarified through the tutorial and the jury critique processes. Evaluating your own work and development will lead to effective reflective professional practice and life-long learning.
- Communication. In both tutorials and jury critiques, work under development and under review is communicated using verbal, graphic, three dimensional and other relevant means to convey intent and to respond to suggestions and critique. Working collaboratively with peers and with consultants as weil as with architectural professionals develops communication skills.

Contribution of unit of study to its program
This is a core unit of study for the BDesArch. It is central to the program, and it relates directly to the practice of the profession of Architecture and all its related forms.

Total student workload effort required
To achieve a good Pass level result the effort expected is 2 hrs per credit point (12) per week of semester (13 weeks):
- Contact hours:12hrs./per week =156 hrs per sem;
- Class preparation: 6 hrs/wk = 78 hrs per sem;
- Assessment preparation: 78 hrs per sem;

DESA 3441 **Design Architecture Independent Study A**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 2, Semester 1. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DESA 3442 **Design Architecture Independent Study B**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DESA 3443 **Design Architecture Independent Study C**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 2, Semester 1. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DESA 3444 **Design Architecture Independent Study D**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Classes:** Weekly meetings by arrangement. **Prerequisites:** 48 credit points and WAM of at least 70. **Assessment:** Report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.
Objectives
- To provide an opportunity to high achieving students to develop interest in a specific Design Architecture topic;
- To develop skills in independent study;
- To develop advanced report writing skills.
Description
This elective is undertaken with an agreement between the student and a supervisor on an agreed topic related to Design Architecture. The student will meet with the supervisor weekly to discuss progress.
Outcomes
- *A* reflective report on a selected topic demonstrating mastery of the topic.

DESA 3551 **Design Architecture General Elective A**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).

Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DESA 3552 **Design Architecture General Elective B**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DESA 3553 **Design Architecture General Elective C**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DESA 3554 **Design Architecture General Elective D**
6 credit points. B Arch, B Arch, B Des, B Des Arch, B Des Comp, B Sc (Arch). **Session:** Semester 1, Semester 2. **Prerequisites:** 48 credit points.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.
Objectives
This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture that is organized by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic. The topic for this elective is proposed by a member of academic staff and approved by the Assoc Dean (Undergraduate).
Outcomes
Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DESP 1001 **Introductory Urban Design and Planning**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mr Martin Payne. **Session:** Semester 2. **Prohibitions:** DESP1201..
Aims
Students will develop knowledge of key planning ideas, and be able appreciate the context relevant to designing the built environment. They will be able to prepare strategic analyses of basic planning situations, and to prepare design proposals with supporting arguments.

Objectives
On successful completion of this unit, each student will be able to demonstrate their ability:
- to prepare short documents, using photos, maps, drawings and other illustrations, with annotated comments and supporting text, to present site analyses;
- to use basic ideas (such as: vistas, viewing and over-viewing, connectivity, legibility, enclosure, uses, activities, environs, links, built form, interest, amenity networks, nodes) in reviewing design situations and preparing simple site analyses;
- to apply a critical and reflective approach in understanding design situations, and in preparing informative reports.

Generic attributes developed in this UoS
In assessments, students will demonstrate ability:
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;

Contribution of UoS to program
This is an elective unit, which introduces the Urban Design and Planning stream in the BDesArch. Elective in other programs. It is relevant to all architectural design students; it teaches students how to prepare planning studies and basic site plans as preparatory phases of designing buildings and places.

Student effort expected
- Contact hours: 2/per week;
- Class preparation: 2hrs/wk;
- Assessment preparation: 26hrs/semester.

DESP 2001 **Planning for the Public Domain**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mr Martin Payne. **Session:** Semester 1. **Prohibitions:** DESP (2201 or 2203). **Assessment:** workbook presenting studies, reviewing materials, envisaging work to be done, demonstrating critical thinking, presenting proposals, etc.
Aims
Students will be able to:
- Undertake background studies to inform designing for various elements of the public domain (streets and roads, open space and public places, car parking, pedestrian networks and centres);
- Formulate and respond to complex planning problems;
- Prepare and present simple proposals;
- Use basic terms, concepts and methods in practical urban design and planning situations.

Objectives
On successful completion of this unit, each student will be able to demonstrate their ability to:
- to prepare short documents, using photos, maps, drawings and other illustrations, with annotated comments and supporting text, to present planning studies and proposals;
- to use basic ideas (such as: vistas, viewing and over-viewing, connectivity, legibility, enclosure, uses, activities, environs, links, built form, interest, amenity networks, nodes) in reviewing design situations and preparing site analyses and proposals;
- to apply a critical and reflective approach in understanding planning and design situations, and in preparing informative documents which move from planning studies to proposals with supporting arguments;
- to be able to prepare proposals for built form outcomes and related planning instruments, with supporting studies and arguments.

Generic attributes developed in this UoS
In assessments students demonstrate ability:
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to use oral, written, visual and other forms of communication to further their own learning ;
- to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;

Contribution of UoS to program
This unit part of the Urban Design and Planning Stream of the BDesArch and an elective in other programs.

Student effort expected
- Contact hours: 2hrs/week;
- Class preparation: 2 hrs/wk;
- Assessment preparation: 30hrs/semester;

DESP 2002 **Planning for the Built Environment**
6 credit points. B Arch, B Des Arch, UG Study Abroad Program. Mr Martin Payne. **Session:** Semester 2. **Prohibitions:** DESP (2202 or 2204).. **Assessment:** workbook presenting studies, reviewing materials, envisaging work to be done, demonstrating critical thinking, presenting proposals, etc.

Aims

Students will be able to:
- Undertake background studies to inform designing for various elements of the public domain (streets and roads, open space and public places, car parking, pedestrian networks and centres);
- Formulate and respond to complex planning problems;
- Prepare and present simple proposals;
- Use basic terms, concepts and methods in practical urban design and planning situations.

Objectives

On satisfactory completion of this unit each student will demonstrate capability:
- to prepare short documents, using photos, maps, drawings and other illustrations, with annotated comments and supporting text, to present planning studies and proposals;
- to use basic ideas (such as: vistas, viewing and over-viewing, connectivity, legibility, enclosure, uses, activities, environs, links, built form, interest, amenity networks, nodes) in reviewing design situations and preparing site analyses and proposals;
- to apply a critical and reflective approach in understanding planning and design situations, and in preparing informative documents which move from planning studies to proposals with supporting arguments;
- to be able to prepare proposals for built form outcomes and related planning instruments, with supporting studies and arguments.

Generic attributes developed in this UoS

In assessment submissions, each student will ability to:
- to exercise critical thinking and judgement in creating new understanding;
- to think critically, creatively and imaginatively;
- to use oral, written, visual and other forms of communication to further their own learning;
- to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;
- to identify and formulate problems, and to envisage and enact processes in response to them.

Contribution of UoS to program

This unit part of the Urban Design and Planning Stream of the BDesArch and an elective in other programs.

Student effort expected
- Contact hours: 2hrs/week
- Class preparation: 2 hrs/wk
- Assessment preparation: 30hrs/semester

4. Undergraduate degree regulations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

This chapter contains the degree regulations governing undergraduate degrees in the Faculty of Architecture. It should be read in conjunction with the *University of Sydney (Coursework) Rule 2000 (as amended)* later in this book. The regulations in this chapter are arranged in the following order:

1. Bachelor of Design in Architecture - BDesArch

The Bachelor of Design in Architecture includes the specially designated streams:

- Bachelor of Design in Architecture (Allied Arts and Architecture) - BDesArch(AlliedArtsArch)
- Bachelor of Design in Architecture (Digital Architecture) - BDesArch(DigitalArch)
- Bachelor of Design in Architecture (Urban Design and Planning) - BDesArch(UrbDes&Plan)

2. Bachelor of Design Computing - BDesComp

3. Bachelor of Architecture - BArch

Bachelor of Design in Architecture

Bachelor of Design in Architecture

Resolutions of the Senate

[These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework award courses, and the Faculty of Architecture's resolutions.]

Requirements of the pass degree

1. To qualify for the award of the pass degree candidates must:
   (1) complete successfully units of study prescribed by the Faculty giving credit for a total of 144 credit points; and
   (2) satisfy the requirements of all other relevant by-laws, rules and resolutions of the University.

Streams

2. The degree of Bachelor of Design in Architecture may also be awarded with the following streams:
   (1) Bachelor of Design in Architecture (Allied Arts in Architecture);
   (2) Bachelor of Design in Architecture (Digital Architecture); and
   (3) Bachelor of Design in Architecture (Urban Design and Planning).

Requirements for the honours degree

3. To qualify for the award of the honours degree a candidate must complete the honours requirements published in the Faculty resolutions relating to the degree.

Bachelor of Design in Architecture

Resolutions of the Faculty

[These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework award courses, and the relevant resolutions of the Senate.]

Section 1

Units of study

1. The units of study which may be taken for the degree are set out in Table A, the table of units of study for the Bachelor of Design in Architecture, together with:
   (1) designation as junior, senior or honours units of study;
   (2) credit point values;
   (3) assumed knowledge, corequisites and prerequisites;
   (4) the semesters in which they are offered;
   (5) the units with which they are mutually exclusive; and
   (6) designation as core, stream or elective.
2. A candidate for the Bachelor of Design in Architecture shall complete the units of study prescribed by the Faculty, satisfying all requirements with regard to all required units of study and streams.
3. Except with the special permission of the Dean, the required units of study must be completed in the sequence prescribed.

Requirements for the pass degree

4. To be eligible for award of the Bachelor of Design in Architecture a candidate must complete successfully units of study giving credit for a total of 144 credit points, including:
   (1) 90 credit points from core units of study;
   (2) not less than 18 senior credit points from the units of study listed in Table A for the Architecture Electives;
   (3) a maximum of two streams as described in resolution 9, to be completed within the 144 credit point table;
   (4) no more than 18 credit points from Allied Arts in Architecture or Digital Architecture electives except for candidates enrolled in the those streams;
   (5) no more than 18 credit points from units of study offered by faculties other than the Faculty of Architecture; and
   (6) the balance to be taken from any other unit of study listed in Table A. Candidates who have completed 96 credit points with a Weighted Average Mark of at least 70 may, with the permission of the unit coordinator concerned, enrol in elective units from Table G, the Faculty's Table of graduate units of study.
5. Candidates proceeding to the Bachelor of Architecture are required to complete the designated prerequisite units of study listed in Table A.
6. Units of study completed at The University of Sydney Summer School, which correspond to units allowable under resolution 4, may be credited towards the course requirements.

Specially designated streams

7. (l)The Faculty will provide at least 15 places for entry in each stream per annum.
   (2) If demand for places in a stream is larger than the number of available places, entry will be determined by the Associate Dean (Undergraduate Studies) in consultation with the stream coordinator based on a portfolio and an interview.
8. Students may transfer between streams.
9. The requirements for award of the designated streams in the Bachelor of Design in Architecture are:
   (1) for the Allied Arts in Architecture stream, not less than 18 credit points from the units of study listed in Table A for the Allied Arts in Architecture stream.
   (2) for the Digital Architecture stream, not less than 18 credit points from the units of study listed in Table A for the Digital Architecture stream;
   (3) for the Urban Design and Planning stream, not less than 18 credit points from the units of study listed in Table A for the Urban Design and Planning stream.

Requirements for the honours degree

10. To qualify to enrol in the honours program a student shall:
   (1) (a) have qualified for the award of the pass degree; or
   (b) be a pass graduate of the Bachelor of Design in Architecture; or
   (c) be a pass graduate in a degree from another faculty or recognised tertiary institution, deemed by the Dean to be equivalent to the Bachelor of Design in Architecture; and
   (2) have a WAM (Weighted Average Mark) of at least 70 for the pass degree. In exceptional cases the Dean may admit a student with a WAM of 65 or higher; and
   (3) have an approved thesis topic and supervisor. The thesis topic must be satisfactory in terms of research interests, resources and availability of supervision within the Faculty and must be agreed upon between the applicant and the supervisor. The supervisor shall be a member of the full-time or fractional academic or research staff of the Faculty. The supervisor may also appoint an associate supervisor who may be a member

of the academic or research staff of the University, an Honorary Associate or a person with appropriate qualifications in another institution or organisation.

11. Except with the permission of the Dean, the student shall be of not more than four years standing for the pass degree.
12. A student may not graduate with the pass degree while enrolled in the final year honours program except with the approval of the Dean.
13. Students shall complete the requirements for the honours program full-time over two consecutive semesters.
14. To qualify for the award of the honours degree, pass degree students shall complete 48 credit points of honours units of study listed in Table A.
15. Students who fail or discontinue the honours program may not re-enrol in it, except with the approval of the Dean.
16. A student undertaking a thesis shall:
(1) lodge with the Faculty two copies of the thesis embodying the results of an original research investigation carried out by the student;
(2) state in the thesis, generally in the preface and specifically in the notes, the sources on which the research was based, the extent to which the student has made use of the work of others and the portion of the thesis which is claimed to be original; and
(3) not lodge as the student's own work any work previously submitted for a degree of The University of Sydney or any other university, but may incorporate such work in the thesis provided that the student indicates the work so incorporated.
17. A student may lodge the thesis for examination bound in either a temporary or permanent form according to the following conditions:
(1) temporary binding must be able to withstand ordinary handling and postage. The preferred form of binding is the "Perfect Binding" system;
(2) the cover of a temporarily bound thesis must have a label showing the student's name, name of the degree, title of the thesis and the year of submission.
18. A student must lodge the final thesis in a permanent form according to the following conditions:
(1) permanent binding must meet the requirements given in the University Calendar under the resolutions governing the degree of Doctor of Philosophy;
(2) following examination and emendation if necessary, at least one copy (the Library copy) of the thesis must be bound in a permanent form;
(3) if emendations are required, all copies of the thesis which are to remain available within the University must be amended.
19. In assessing a candidate's performance for honours the Dean shall appoint two examiners. The examiners shall report to the Dean.
20. The Dean shall, on the recommendation of the Board of Undergraduate Studies, award the degree of Bachelor of Design in Architecture with honours whenever the following sections (1) or (2) are satisfied together with the following section (3):
(1) the examiners have recommended the degree be awarded without reservation or subject to emendations to all copies of the thesis which are to remain available in the University; or
(2) the Board of Undergraduate Studies unanimously accepts the recommendation of the supervisor that the degree be awarded subject to emendations despite reservations expressed by any examiner; and
(3) the overall performance in accordance with resolution 21 below is 70 or greater.
21. The Dean, on the recommendation of the Board of Undergraduate Studies, will determine the class of honours, if any, on the overall performance of the candidate in the Bachelor of Design in Architecture using a mark derived from weighting the mark for the honours thesis at 70 per cent and the Weighted Average Mark of the pass degree at 30 per cent.
22. The Dean may recommend that an unsuccessful candidate be permitted to prepare for re-examination if of sufficient merit and the supervisor has so recommended.

Award of the degree

23. The pass degree of Bachelor of Design in Architecture shall be awarded to a student who has completed the requirements specified in resolution 4.
24. The honours degree of Bachelor of Design in Architecture shall be awarded to eligible students, with the following grades:
(1) Honours Class I (with a mark of at least 80); or
(2) Honours Class II, Division 1 (with a mark of at least 75); or
(3) Honours Class II, Division 2 (with a mark of at least 70).
25. Honours students with an outstanding academic record throughout the degree and who have achieved Honours Class I may be eligible for the award of a University Medal, in accordance with Academic Board policy and on nomination by the Dean with the recommendation of the Board of Undergraduate Studies.
26. A student for the honours program who does not meet the requirements for award of honours shall be awarded the Bachelor of Design in Architecture pass degree in their designated stream.
27. The testamur for the Bachelor of Design in Architecture shall specify any stream completed in order to qualify for the award, as well as the class of honours achieved and the medal, if awarded.

Section 2

Agency

28. **In** these resolutions the Dean gives agency to the Board of Undergraduate Studies and the Associate Dean (Undergraduate Studies) for determination of the following matters, on the recommendation of the program coordinator where appropriate:
(1) examination procedures and appointment of examiners;
(2) supervision of candidature;
(3) variations of candidature;
(4) extension of candidature;
(5) completion of candidature away from the University; and
(6) any other matters as appropriate within these resolutions.

Enrolment restrictions

29. Except with the express permission of the Dean a student may not enrol in units of study with a total value of more than 30 credit points in any one semester.
30. Except with the express permission of the Dean a student must maintain full-time enrolment.

Repeating a unit of study

31. Unless granted exemption by the Dean for previous satisfactory completion of components of a unit of study, a student who repeats that unit of study shall:
(1) participate in the learning experiences provided for the unit of study; and
(2) meet all examination, assessment and attendance requirements for the unit of study.
32. A student who has passed a unit of study may not repeat that unit of study and have it counted towards fulfilling the requirements of the degree.

Cross institutional enrolment

33. Provided that permission has been obtained in advance, the Dean may permit a student to complete a unit of study at another institution and have that unit credited to his/her course requirements, provided that:
(1) the unit of study content is not taught in any corresponding unit of study in the University; or
(2) the student is unable for good reason to attend a corresponding unit of study at the University.

Discontinuation of enrolment

34. Except with the approval of the Dean, in exceptional circumstances, a student who withdraws from or discontinues candidature for the degree without having successfully completed any units of study shall be required to reapply for admission to the degree.

Suspension of candidature

35. A student who has successfully completed units of study may, with the permission of the Dean, suspend candidature for up to two semesters. At the end of that time the candidate may reapply to extend the suspension for a maximum of another two semesters. After that time candidature will be deemed to have lapsed and the student shall be required to reapply for admission to the degree.
36. The candidature of a student who has not obtained permission to suspend will be deemed to have lapsed and the student must apply for readmission in accordance with procedures determined by the Dean.

Re-enrolment after an absence

37. Except where the Dean determines otherwise, a student who re-enrols after an absence or a suspension of candidature for any period shall proceed under the by-laws and resolutions in force at the time of re-enrolment.

Satisfactory progress

38. The Dean may require a student to show good cause as to why he or she should not be excluded from the degree if he or she does not make satisfactory progress. A student who has failed a required unit of study more than once shall normally be presumed not to have made satisfactory progress.

39. The Dean will permit a student who has shown good cause to re-enrol.

Assessment

40. A student's work may be assessed by written and oral examinations, assignments, exercises and practical work or any combination of these.

41. In the first year of the Bachelor of Design in Architecture all core units of study will be graded on a Pass/Fail basis. A Pass will be recorded as R, indicating that the student has fulfilled the requirements of the unit of study.

42. A student who has been prevented by duly documented illness or misadventure from completing a unit of study may be allowed to complete that unit of study or supplementary work as the Dean shall determine.

43. When a student is permitted to submit additional work other than on the grounds of illness or misadventure, and the temporary grade INC has been given, the maximum result that may be awarded is 50 Pass.

44. (1) A student's Weighted Average Mark (WAM) shall be calculated using the formula:

$$WAM = \frac{\sum(M \times CPa \times CPw)}{\sum(CPa \times CPw)}$$

where M is the mark achieved, CPa is the credit points attempted and CPw is the credit point weighting of any given unit of study. The weighting is determined by the Faculty administering the unit.

(2) In the Faculty of Architecture, a weighting of 1 is given to junior units and 3 for senior and graduate units.

Attendance requirements

45. A student who is absent without leave may be deemed not to have completed a particular unit of study or course.

46. A student who fails to meet the attendance requirements of a unit of study will be deemed not to have completed that unit of study.

Credit transfer policy

47. Credit may be granted for previous credentialled learning, at the discretion of the Dean.

48. Credit will not be granted for units of study completed more than nine years prior to application, except with the permission of the Dean.

49. Credit shall not be granted for units of study gained with a "Concessional Pass" or equivalent.

50. Credit shall not be granted for graduate units of study.

51. Credit may be granted as Specific Credit if the unit of study is considered to be directly equivalent to a unit of study in the table of units of study for the degree, or as non specific credit.

52. The total amount of credit may not be greater than 96 credit points including a maximum of 18 credit points of unspecified credit.

53. A student may apply to have credit granted on the basis of non-credentialled learning or experience that is equivalent to a unit of study in the table of units of study for the degree. The Dean will determine the method of demonstrating the achievement of the equivalent academic standard.

54. All students, notwithstanding any credit transfer, must complete DESA 3001 and DESA 3002 and not less than 12 additional senior credit points of units of study from Table A.

Transitional provisions

55. These resolutions shall apply to:

(1) persons who commence their candidature after 1 January 2005;and

(2) persons who commenced their candidature prior to 1 January 2005 and who elect to proceed under these resolutions.

56. A candidate for the degree who commenced candidature prior to 1 January 2005 may complete the requirements in accordance with the resolutions in force at the time the candidate commenced, provided that the candidate shall complete the requirements by 1 January 2009 or such later date as the Faculty may, in special circumstances, approve.

Bachelor of Design Computing

Bachelor of Design Computing

Resolutions of the Senate

[These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework award courses, and the Faculty of Architecture's resolutions.]

Requirements of the pass degree

1. To qualify for the award of the pass degree candidates must:

(1) complete successfully units of study prescribed by the Faculty giving credit for a total of 144 credit points; and

(2) satisfy the requirements of all other relevant by-laws, rules and resolutions of the University.

Requirements for the honours degree

2. To qualify for the award of the honours degree a candidate must complete the honours requirements published in the Faculty resolutions relating to the degree.

Bachelor of Design Computing

Resolutions of the Faculty

[These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework award courses, and the relevant resolutions of the Senate.]

Section 1

Units of study

1. The units of study which may be taken for the degree are set out in Table B, the table of the units of study for the Bachelor of Design Computing, together with:

(1) designation as junior, senior or honours units of study;

(2) credit point values;

(3) assumed knowledge, corequisites and prerequisites;

(4) the semesters in which they are offered;

(5) the units with which they are mutually exclusive; and

(6) designation as core or elective;

2. A candidate for the Bachelor of Design Computing shall complete the units of study prescribed by the Faculty satisfying all requirements with regard to core units of study.

3. Except with the special permission of the Faculty, the core units of study must be completed in the sequence prescribed.

Requirements for the pass degree

4. To be eligible for award of the Bachelor of Design Computing a candidate must complete successfully units of study giving credit for a total of 144 credit points, including:

(1) 96 credit points from the core units of study;

(2) at least 24 credit points of elective units from Table B;

(3) at least 72 senior credit points; and

(4) candidates who have completed 96 credit points with a Weighted Average Mark of at least 70 may, with the permission of the unit coordinator concerned, enrol in elective units from Table G, the Faculty's Table of graduate units of study.

5. Units of study completed at The University of Sydney Summer School, which correspond to units allowable under resolution 4, may be credited towards the course requirements.

Requirements for the honours degree

6. To qualify to enrol in the honours program a student shall:

(1) (a) have qualified for the award of the pass degree; or

(b) be a pass graduate of the Bachelor of Design Computing; or

(c) be a pass graduate in a degree from another faculty or recognised tertiary institution, deemed by the Dean to be equivalent to the Bachelor of Design Computing; and

(2) have a WAM (Weighted Average Mark) of at least 70 for the pass degree. In exceptional cases the Dean may admit a student with a WAM of 65 or higher; and

(3) have an approved thesis topic and supervisor. The thesis topic must be satisfactory in terms of research interests, resources and availability of supervision within the Faculty and must be agreed upon between the applicant and the supervisor. The supervisor shall be a member of the full-time or fractional academic or research staff of the Faculty. The supervisor may also appoint an associate supervisor who may be a member of the academic or research staff of the University, an Honor-

ary Associate or a person with appropriate qualifications in another institution or organisation.

7. Except with the permission of the Dean, the student shall be of not more than 4 years' standing or the semester equivalent for the pass degree.

8. A student may not graduate with the pass degree while enrolled in the final year honours program.

9. Students shall complete the requirements for the honours program full-time over two consecutive semesters except with the approval of the Dean.

10. To qualify for the award of the honours degree, pass degree students shall complete 48 credit points of honours units of study listed in Table B.

11. Students who fail or discontinue the honours program may not re-enrol in it, except with the approval of the Dean.

12. A student undertaking a thesis shall:

(1) lodge with the Faculty two copies of the thesis embodying the results of an original research investigation carried out by the student;

(2) state in the thesis, generally in the preface and specifically in the notes, the sources on which the research was based, the extent to which the student has made use of the work of others and the portion of the thesis which is claimed to be original; and

(3) not lodge as the student's own work any work previously submitted for a degree of The University of Sydney or any other university, but may incorporate such work in the thesis provided that the student indicates the work so incorporated.

13. A student may lodge the thesis for examination bound in either a temporary or permanent form according to the following conditions:

(1) temporary binding must be able to withstand ordinary handling and postage. The preferred form of binding is the "Perfect Binding" system.

(2) the cover of a temporarily bound thesis must have a label showing the student's name, name of the degree, title of the thesis and the year of submission.

14. A student must lodge the final thesis in a permanent form according to the following conditions:

(1) permanent binding must meet the requirements given in the University Calendar under the resolutions governing the degree of Doctor of Philosophy;

(2) following examination and emendation if necessary, at least one copy (the Library copy) of the thesis must be bound in a permanent form;

(3) if emendations are required, all copies of the thesis which are to remain available within the University must be amended.

15. In assessing a candidate's performance for honours the Dean shall appoint two examiners. The examiners shall report to the Dean.

16. The Dean shall, on the recommendation of the Board of Undergraduate Studies, award the degree of Bachelor of Design Computing with honours whenever the following sections (1) or (2) are satisfied together with the following section (3):

(1) the examiners have recommended the degree be awarded without reservation or subject to emendations to all copies of the thesis which are to remain available in the University; or

(2) the Board of Undergraduate Studies unanimously accepts the recommendation of the supervisor that the degree be awarded subject to emendations despite reservations expressed by any examiner; and

(3) the overall performance in accordance with resolution 17 below is 70 or greater.

17. The Dean, on the recommendation of the Board of Undergraduate Studies, will determine the class of honours, if any, on the overall performance of the candidate in the Bachelor of Design Computing using a mark derived from weighting the mark for the honours thesis at 70 per cent and the Weighted Average Mark for the all units of study of the pass degree at 30 per cent.

18. The Dean may recommend that an unsuccessful candidate be permitted to prepare for re-examination if of sufficient merit and the supervisor has so recommended.

Award of the degree

19. The Bachelor of Design Computing pass degree shall be awarded to a student who has completed the requirements for the degree specified in resolution 4.

20. The Bachelor of Design Computing with honours shall be awarded with the following grades:

(1) Honours Class I (with a mark of at least 80);

(2) Honours Class II, Division 1 (with a mark of at least 75); or

(3) Honours Class II, Division 2 (with a mark of at least 70).

21. A student for the honours program who does not meet the requirements for award of honours shall be awarded the Bachelor of Design Computing pass degree.

22. Honours students with an outstanding academic record throughout the degree and who have achieved Honours Class I may be eligible for the award of a University Medal, in accordance with Academic Board policy and on nomination by the Dean with the recommendation of the Board of Undergraduate Studies.

Section 2

Agency

23. **In** these resolutions the Dean gives agency to the Board of Undergraduate Studies and the Associate Dean (Undergraduate Studies) for determination of the following matters, on the recommendation of the program coordinator where appropriate:

(1) examination procedures and appointment of examiners;

(2) supervision of candidature;

(3) variations of candidature;

(4) extension of candidature;

(5) completion of candidature away from the University; and

(6) any other matters as appropriate within these resolutions.

Enrolment restrictions

24. Except with the express permission of the Dean a student may not enrol in units of study with a total value of more than 30 credit points in any one semester.

25. Except with the permission of the Dean a student must maintain a full-time enrolment.

Repeating a unit of study

26. Unless granted exemption by the Dean for previous satisfactory completion of components of a unit of study, a student who repeats that unit of study shall:

(1) participate in the learning experiences provided for the unit of study; and

(2) meet all examination, assessment and attendance requirements for the unit of study.

27. A student who has passed a unit of study may not repeat that unit of study and have it counted towards fulfilling the requirements of the degree.

Cross institutional enrolment

28. Provided that permission has been obtained in advance, the Dean may permit a student to complete a unit of study at another institution and have that unit credited to his/her course requirements, provided that:

(1) the unit of study content is not taught in any corresponding unit of study in the University; or

(2) the student is unable for good reason to attend a corresponding unit of study at the University.

Discontinuation of enrolment

29. Except with the approval of the Dean, in exceptional circumstances, a student who withdraws from or discontinues candidature for the degree without having successfully completed any units of study shall be required to reapply for admission to the degree.

Suspension of candidature

30. A student who has successfully completed units of study may, with the permission of the Dean, suspend candidature for up to two semesters. At the end of that time the candidate may reapply to extend the suspension for a maximum of another two semesters. After that time candidature will be deemed to have lapsed and the student shall be required to reapply for admission to the degree.

31. The candidature of a student who has not obtained permission to suspend will be deemed to have lapsed and the student must apply for readmission to the degree in accordance with procedures determined by the Dean.

Re-enrolment after an absence

32. Except where the Dean determines otherwise, a student who re-enrols after an absence or a suspension of candidature for any period shall proceed under the by-laws and resolutions in force at the time of re-enrolment.

Satisfactory progress

33. The Faculty may require a student to show good cause as to why he or she should not be excluded from the degree if he or she does not make satisfactory progress. A student who has failed a required unit of study more than once shall normally be presumed not to have made satisfactory progress.

34. The Dean will permit a student who has shown good cause to re-enrol.

Assessment

35. A student's work may be assessed by written and oral examinations, assignments, exercises and practical work or any combination of these.

36. A student who has been prevented by duly documented illness or misadventure from completing a unit of study may be allowed to complete that unit of study or supplementary work as the Dean shall determine.

37. When a student is permitted to submit additional work other than on the grounds of illness or misadventure, and the temporary grade INC has been given, the maximum result that may be awarded is 50 Pass or equivalent.

38. (1) A student's Weighted Average Mark (WAM) shall be calculated using the formula:

$$WAM = \frac{\sum(M \times CPa \times CPw)}{\sum(CPa \times CPw)}$$

where M is the mark achieved, CPa is the credit points attempted and CPw is the credit point weighting of any given unit of study. The weighting is determined by the Faculty administering the unit.

(2) In the Faculty of Architecture, a weighting of 1 is given to junior units, 3 for senior units and 3 for graduate units.

Attendance requirements

39. A student who is absent without leave may be deemed not to have completed a particular unit of study or course.

40. A student who fails to meet the attendance requirements of a unit of study will be deemed not to have completed that unit of study.

Credit transfer policy

41. Credit may be granted for previous credentialled learning, at the discretion of the Dean.

42. Credit will not be granted for units of study completed more than nine years prior to application, except with the permission of the Dean.

43. Credit shall not be granted for units of study gained with a "Concessional Pass" or equivalent.

44. Credit shall not be granted for graduate units of study.

45. Credit may be granted as Specific Credit if the unit of study is considered to be directly equivalent to a unit of study in the table of units of study for the degree, or as non specific credit.

46. The total amount of credit may not be greater than 96 credit points.

47. A student may apply to have credit granted on the basis of non-credentialled learning or experience that is equivalent to a unit of study in the table of units of study for the degree. The Dean will determine the method of demonstrating the achievement of the equivalent academic standard.

48. All students, notwithstanding any credit transfer, must complete DECO 3100 and DECO 3200 and not less than 12 additional senior credit points of units of study from Table B.

Bachelor of Architecture

Bachelor of Architecture

Resolutions of the Senate

[These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework courses, and the relevant Faculty resolutions.]

Requirements of the pass degree

1. To qualify for the award of the pass degree candidates must:
   (1) complete successfully units of study prescribed by the Faculty giving credit for a total of 96 credit points; and
   (2) satisfy the requirements of all other relevant by-laws, rules and resolutions of the University.

Requirements for the honours degree

2. To qualify for the award of the honours degree a candidate must complete the honours requirements published in the Faculty resolutions relating to the course.

Bachelor of Architecture

Resolutions of the Faculty

[These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework courses, and the relevant resolutions of the Senate.]

Section 1

Admission

1. An applicant for admission to candidature for the degree of Bachelor of Architecture shall have:
   (1) completed all the requirements for the degree of Bachelor of Science (Architecture) or Bachelor of Design in Architecture at The University of Sydney with a Weighted Average Mark in the degree of at least 50, or such other degree of The University of Sydney as the Faculty of Architecture may approve, or possess such equivalent standing as may be approved by the Dean;
   (2) completed the units of study shown as prerequisites for the Bachelor of Architecture in the table of units of study for the Bachelor of Science (Architecture) or Bachelor of Design in Architecture degree, if proceeding to candidature from the Bachelor of Science (Architecture) or the Bachelor of Design in Architecture, provided that in special circumstances a candidate may be exempted from these requirements with the approval of the Dean; and
   (3) satisfied the Architectural Experience Requirement or equivalent, as may be approved by the Dean.

2. Pursuant to 1(3) above, an applicant for admission to the Bachelor of Architecture may satisfy the Architectural Experience Requirement by completing either the requirements for award of the degree of Bachelor of Science (Architecture) or Bachelor of Design in Architecture with honours or, by the date of enrolment, showing evidence of completion of one or more of the following:
   (1) professional work experience as an employee in architecture (minimum of 18 weeks recorded in the Architects Accreditation Council of Australia (AACA) Log Book);
   (2) field study in relation to architecture (including, but not limited to, international field study);
   (3) professional work experience in a related industry (minimum of 18 weeks appropriately recorded);
   (4) study at an Australia or overseas tertiary institution in a relevant discipline; or
   (5) a combination of methods (l)-(4) above.

3. A candidate proceeding from the Bachelor of Science (Architecture) or the Bachelor of Design in Architecture to the Bachelor of Architecture shall commence candidature for the Bachelor of Architecture within six years of completing the Bachelor of Science (Architecture) or Bachelor of Design in Architecture, or shall be required to apply for admission for the degree.

Units of study

4. The units of study which may be taken for the degree are set out in the Table C, the table of units of study for the Bachelor of Architecture, together with:
   (1) credit point values;
   (2) assumed knowledge, corequisites and prerequisites;
   (3) the semesters in which they are offered;
   (4) the units with which they are mutually exclusive; and
   (5) designation as core or elective.

5. A candidate for the Bachelor of Architecture shall complete the units of study prescribed by the Faculty, satisfying all requirements with regard to core units of study.

Requirements for the pass degree

6. To be eligible for award of the Bachelor of Architecture a candidate must complete successfully units of study giving credit for a total of 96 credit points, including:
   (1) 78 credit points from the core units of study, and
   (2) 18 credit points from the elective units of study listed in Table C, or from the Table of graduate units of study. Students taking graduate units must have the permission of the unit coordinator concerned.

7. Units of study completed at The University of Sydney Summer School, which correspond to units allowable under resolution 6, may be credited towards the course requirements.

Requirements for the honours degree

8. To be eligible for the award of honours a candidate must complete the unit of study ARCF 4201 Preparatory Advanced Study Report and ARCF 5301 Advanced Study Report.

9. The Dean shall appoint a member of the full-time or fractional academic or research staff of the Faculty to act as supervisor of the student whilst undertaking the unit Advanced Study Report. The Dean may also appoint an associate supervisor who may be a member of the academic or research staff of the University, an Honorary

Associate or a person with appropriate qualifications in another institution or organisation.

10. A student undertaking an Advanced Study Report shall:
    (1) lodge with the Faculty two copies of the Advanced Study Report embodying the results of an original research investigation carried out by the student.
    (2) state in the Advanced Study Report, generally in the preface and specifically in the notes, the sources on which the research was based, the extent to which the student has made use of the work of others and the portion of the Advanced Study Report which is claimed to be original, and
    (3) not lodge as the student's own work any work previously submitted for a degree of The University of Sydney or any other university, but may incorporate such work in the Advanced Study Report provided that the student indicates the work so incorporated.

11. A student may lodge the Advanced Study Report for examination bound in either a temporary or permanent form according to the following conditions:
    (1) temporary binding must be able to withstand ordinary handling and postage. The preferred form of binding is the "Perfect Binding" system.
    (2) the cover of a temporarily bound Advanced Study Report must have a label showing the student's name, name of the degree, title of the thesis and the year of submission.

12. A student must lodge the final thesis in a permanent form according to the following conditions:
    (1) permanent binding must meet the requirements given in the University Calendar under the resolutions governing the degree of Doctor of Philosophy.
    (2) following examination and emendation if necessary, at least one copy (the Library copy) of the Advanced Study Report must be bound in a permanent form.
    (3) if emendations are required, all copies of the Advanced Study Report which are to remain available within the University must be amended.

13. The Dean shall appoint two examiners. The examiners shall report to the Dean.

14. The Dean shall, on the recommendation of the Board of Undergraduate studies, award of the degree of Bachelor of Architecture with honours when either of the following sections (1) or (2) are satisfied together with the following section (3):
    (1) the examiners have recommended the degree be awarded without reservation or subject to emendations to all copies of the Advanced Study Report which are to remain available in the University, or
    (2) the Board of Undergraduate Studies unanimously accepts the recommendation of the supervisor that the degree be awarded subject to emendations despite reservations expressed by any examiner; and
    (3) the overall performance in accordance with resolution 15 below is 70 or greater.

15. The Dean will determine the class of honours, if any, on the Weighted Average Mark achieved for the degree including the mandatory Advanced Study Report.

16. The Dean may recommend that an unsuccessful candidate be permitted to prepare for re-examination if of sufficient merit and the supervisor has so recommended.

17. Except with the permission of the Dean, no student who is of more than four semesters' standing as a candidate for the degree shall be awarded honours at graduation.

18. A student wishing to undertake a joint degree, overseas study, or a specialisation of professional value may be eligible for consideration. Any request must be submitted in writing.

Award of the degree

19. The Bachelor of Architecture pass degree shall be awarded to a student who has completed the requirements specified for the degree in resolution 6.

20. The Bachelor of Architecture with honours shall be awarded with the following grades:
    (1) Honours Class I (with a mark of at least 75);
    (2) Honours Class II, Division 1 (with a mark of at least 73); or
    (3) Honours Class II, Division 2 (with a mark of at least 70).

21. A candidate for the honours program who does not meet the requirements for the award of honours shall be eligible for the Bachelor of Architecture pass degree.

22. Honours students with an outstanding academic record throughout the degree and who have achieved Honours Class I may be eligible for the award of a University Medal, in accordance with Academic Board policy and on nomination by the Dean with the recommendation of the Board of Undergraduate Studies.

Section 2

Agency

23. The Dean gives agency for admission to the Bachelor of Architecture degree to the Bachelor of Architecture Program Committee.

24. In these resolutions the Dean gives agency to the Board of Undergraduate Studies and the Associate Dean (Undergraduate Studies) for determination of the following matters, on the recommendation of the head of program where appropriate:
    (1) examination procedures and appointment of examiners;
    (2) supervision of candidature;
    (3) variations of candidature;
    (4) extension of candidature;
    (5) completion of candidature away from the University; and
    (6) any other matters as appropriate within these resolutions.

Enrolment restrictions

25. Except with the express permission of the Dean a student may not enrol in units of study with a total value of more than 30 credit points in any one semester.

26. Except with the permission of the Dean a student must maintain a full-time enrolment.

Repeating a unit of study

27. Unless granted exemption by the Dean for previous satisfactory completion of components of a unit of study, a student who repeats that unit of study shall:
    (1) participate in the learning experiences provided for the unit of study; and
    (2) meet all examination, assessment and attendance requirements for the unit of study.

28. A student who has passed a unit of study may not repeat that unit of study and have it counted towards fulfilling the requirements of the degree.

Cross institutional enrolment

29. Provided that permission has been obtained in advance, the Dean may permit a student to complete a unit of study at another institution and have that unit credited to his/her course requirements, provided that:
    (1) the unit of study content is not taught in any corresponding unit of study in the University; or
    (2) the student is unable for good reason to attend a corresponding unit of study at the University.

Discontinuation of enrolment

30. Except with the approval of the Dean, a student who withdraws from or discontinues candidature for the degree without having successfully completed a majority of units of study shall be required to reapply for admission to the degree.

Suspension of candidature

31. A student who has successfully completed 48 credit points of study may, with the permission of the Dean, suspend candidature for up to two semesters. At the end of that time the candidate may reapply to extend the suspension for a maximum of another two semesters. After that time candidature will be deemed to have lapsed and the student shall be required to reapply for admission to the degree.

32. The candidature of a student who has not obtained permission to suspend will be deemed to have lapsed and the student must apply for readmission in accordance with procedures determined by the Dean.

Re-enrolment after an absence

33. Except where the Dean determines otherwise, a student who re-enrols after an absence or a suspension of candidature for any period shall proceed under the by-laws and resolutions in force at the time of re-enrolment.

Satisfactory progress

34. The Dean may require a student to show good cause as to why he or she should not be excluded from the degree if he or she does not make satisfactory progress. A candidate who has failed a required unit of study more than once shall normally be presumed not to have made satisfactory progress.

35. The Dean will permit a student who has shown good cause to re-enrol.

Assessment

36. A student's work may be assessed by written and oral examinations, assignments, exercises and practical work or any combination of these.

37. A student who has been prevented by duly documented illness or misadventure from completing a unit of study may be allowed to complete that unit of study or supplementary work as the Dean shall determine.
38. When a student is permitted to submit additional work other than on the grounds of illness or misadventure, and the temporary grade INC has been given, the maximum result that may be awarded is 50 Pass.
39. (1) A student's Weighted Average Mark (WAM) shall be calculated using the formula:

$$WAM = \frac{\sum(M \times CPa \times CPw)}{\sum(CPa \times CPw)}$$

where M is the mark achieved, CPa is the credit points attempted and CPw is the credit point weighting of any given unit of study. The weighting is determined by the Faculty administering the unit.

(2) In the Faculty of Architecture, a weighting of 1 is given to junior units and 3 for senior and graduate units.

Attendance requirements

40. A student who is absent without leave may be deemed not to have completed a particular unit of study or course.
41. A student who fails to meet the attendance requirements of a unit of study will be deemed not to have completed that unit of study.

Credit transfer policy

43. Credit will not be granted for units of study completed more than nine years prior to application, except with the permission of the Dean.
44. Credit will not be granted for units of study gained with a "Concessional Pass" or equivalent.
45. Credit may be granted as Specific Credit if the unit of study is considered to be directly equivalent to a unit of study in the table of units of study for the degree, or as non specific credit.
46. Credit will not be granted on the basis of units of study completed in the Bachelor of Science (Architecture), the Bachelor of Design in Architecture, or such equivalent degree except for units of study in excess of those used to satisfy the requirements of the degree, and then only if the unit of study is deemed to be common to both tables of units of study.
47. The total amount of credit may not be greater than 48 credit points.
48. A student may apply to have credit granted on the basis of non-credentialled learning or experience that is equivalent to a unit of study in the table of units of study for the degree. The Dean will determine the method of demonstrating the achievement of the equivalent academic standard.
49. Credit shall not be granted for graduate units of study.

Transitional provisions

50. These resolutions shall apply to:
(1) persons who commence their candidature after 1 January 2005;and
(2) persons who commenced their candidature prior to 1 January 2005 and who elect to proceed under these resolutions.
51. A candidate for the degree who commenced candidature prior to 1 January 2005 may complete the requirements in accordance with the resolutions in force at the time the candidate commenced, provided that the candidate shall complete the requirements by 1 January 2009 or such later date as the Faculty may, in special circumstances, approve.

5. Graduate coursework degrees

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Introduction

Courses

The following postgraduate coursework degrees are offered by the Faculty of Architecture at the graduate certificate, graduate diploma and master level:

- Architecture
- Design Science
- Facilities Management
- Heritage Conservation
- Urban Design
- Urban and Regional Planning

Streams

Some of the degrees require or allow streams to be completed. In order to complete a stream a student must study a minimum set of prescribed core and optional units of study which build an expertise in that area. The units of study are listed in Table G, the Table of graduate units. The following degrees offer streams:

Architecture

- Architectural History, Theory and Criticism
- Architectural Design
- Architectural and Urban Design

Design Science

- Audio Design
- Building
- Building Services
- Design Computing
- Digital Media
- Facilities Management
- Illumination Design
- Sustainable Design
- Combination of any two Design Science streams

Master of Urban Design

- Available without specialisation
- Urban Design and Planning

Master of Urban and Regional Planning

- Available without specialisation
- Heritage Conservation
- Housing Studies
- Urban Design

Combined degrees

The Faculty offers combined degrees through the Faculty of Economics and Business. Students interested in these combined programs should make enquiries with that Faculty.

- Master of Commerce/Master of Facilities Management
- Master of Transport Management/Master of Urban and Regional Planning

Admission

Applicants for Architectural Design must have a professional degree in architecture and submit a portfolio of work indicating relevant design interests and capacities to the satisfaction of the stream coordinator.

Applicants for Urban Design must hold a professional degree in architecture or a degree in landscape architecture, urban planning or similar related field, and submit a portfolio of work indicating relevant design interests and capacities to the satisfaction of the stream coordinator.

Applicants for other degrees are normally expected to hold a bachelor degree from this or another university. Where this degree is not directly relevant to the chosen field applicants may be asked to furnish evidence that they are suitably qualified for the course. Applicants without a bachelor degree may be admitted to the graduate certificate on a probationary basis. If they achieve an average mark in excess of 70 they will be allowed to proceed to the graduate diploma or master level.

Articulation

Students are encouraged to enrol into the degree and stream that they intend to complete. If you wish to complete a master degree you should apply for the master program. However, the postgraduate degrees are articulated, allowing easy progression (or regression) from the graduate certificate to the graduate diploma or master degree, or vice-versa. The main difference between the level of award is the total number of credit points required, as well as the number of core, optional and elective units of study required. A student who begins with a graduate certificate can easily upgrade to a higher award. A student who begins with a master degree but decides not to continue may be able to graduate with a graduate diploma or graduate certificate.

Master degrees requiring 72 and 96 credit points

Most of the master degrees listed require 72 credit points, or 1.5 years of full-time study. However, the following master degrees require 96 credit points, or 2 years of full-time study, and allow the combination of two programs:

- Master of Architecture (Architectural and Urban Design)
- Master of Urban Design (Urban Design and Planning)
- Master of Design Science (combination of any two Design Science streams)

The same principles of articulation apply; a candidate enrolled in a 72 credit point master can upgrade to an appropriate 96 credit point master, and vice-vers a. However, students intending to complete a 96 credit point master degree are advised to plan this carefully from the beginning of their candidature to ensure they can complete all requirements in a timely fashion.

Honours

By completing the dissertation, master degree students may qualify for the award of the degree with honours. From 2005 the Dissertation shall be completed in addition to the requirements for the pass degree for all degrees except the Master of Urban and Regional Planning. Master of Urban and Regional Planning students who wish to graduate with honours attempt the Dissertation as part of the 72 credit points required for the degree.

To qualify to enrol in honours, candidates must have a Weighted Average Mark of at least 75 in all other coursework required for the course. To qualify for honours students must achieve at least 75 in the dissertation. *Students who do not achieve at least 75 in the dissertation will not be awarded honours.*

Research Degrees

Students who complete a master degree with honours, or who have a bachelor degree with honours in a relevant area, are encouraged to consider a research degree (see chapter 6). Such students should discuss their plans with their program coordinator or Dissertation supervisor, or seek advice from the Student Administration Centre.

Graduation

Students who choose to articulate their program will only graduate with the highest qualification they achieve.

Degree requirements summary

The following summary is subordinate to the full set of resolutions of the Senate and Faculty at the end of this chapter. It does not contain all of the terms of candidature. Students are strongly advised to read the full resolutions and monitor their progress through their course.

Master degrees 72 credit points selected from Table G, the Table of graduate units of study, comprised of core, optional and elective units to the number specified in the following Table of Requirements. A full-time student will finish the program in three semesters; except:

Master of Architecture (Architectural and Urban Design), Master of Urban Design (Urban Design and Planning) and the Master of Design Science (two streams) 96 credit points selected from Table G, the Table of graduate units of study, comprised of core, optional and elective units to the number specified in the following Table of Requirements and the degree resolutions. A full-time student will finish the program in four semesters;

Graduate diplomas 48 credit points from Table G, the Table of graduate units of study, comprised of core, optional and elective units to the number specified in the following Table of Requirements. A full-time student will finish the program in two semesters;

Graduate certificates 24 credit points from Table G, the Table of graduate units of study, comprised of core, optional and elective units to the number specified in the following Table of Requirements. A full-time student will finish the program in one semester.

Core, optional and elective

In the Table G, the Table of graduate units of study, units have been listed as core or optional. The core and optional units are the set of units from which you must choose to satisfy the minimum requirements for the degree. Elective units may be chosen from anywhere in the Table of graduate units, including those listed as core or optional for other programs. There is also a section at the start of the Table of graduate units listing elective units that are not specially designated as core or optional for any program. The Table of Requirements defines the combinations of core, optional and elective units for each program.

Time limits

At a maximum, you have 10 enrolled semesters within 8 calendar years to complete your degree, whichever expires first.

Credit for previous study

Credit may be granted for previous study. These rules apply:

- full credit will be granted to students "upgrading" from a Graduate Certificate or Graduate Diploma to a higher degree in the same program, provided that no more than five years have elapsed since the award;
- for other students, a maximum of 12 credit points may be granted to the Graduate Certificate, and 18 to the Graduate Diploma or Masters;
- credit to the graduate certificate must have been completed within the Faculty of Architecture as non degree study.
- the study should have been completed in the last nine years;
- credit may be granted for non-credentialled learning, subject to you satisfying the program coordinator of your competency, including a written submission outlining the claim, the completion of tests or tasks to demonstrate that competency if required.

Study in other faculties

Students in the graduate diploma and master programs may request permission to substitute up to 12 credit points worth of units of study with graduate units from other programs in the university or from other universities. Permission must be requested in advance.

Application of older resolutions

Students who commenced their current course before 2005 remain subject to the resolutions in force in their first year of enrolment in that course. They may if they choose, complete their degree according to the current resolutions.

Students who were enrolled in or prior to 2004 and upgrade their candidature to a higher course in or after 2005 will be subject to the current resolutions unless the Dean decides otherwise.

Transition to six credit point units

In 2005 the Faculty of Architecture standardised most units of study to six credit points to facilitate easier enrolment and choice of electives that add up to the degree requirements. In 2006 both the old and the new versions of the units of study will be offered with appropriately weighted assessment. *The old versions of units will cease to be offered at the end of 2006.*

Part-time students are especially encouraged to plan their studies for the coming years and discuss this with their program coordinator. Part-time students who are close to the start of their studies and who anticipate taking a long time to complete their course should consider enrolling in the new units and satisfying the new requirements. Students close to the end of their study should remain with the older units. *Students should consider completing the core requirements first, before worrying about elective units where the credit point value is less important.*

Table of requirements

	Grad Certificate			Graduate Diploma			Masters		
Course/stream	Min. Core	Min. Options	Max. Elective	Min. Core	Min. Options	Max. Elective	Min. Core	Min. Options	Max. Elective
Certificate, Diploma, Masters in Architecture									
Architectural Design	24	0	0	36	0	12	36	18	18
Architectural History, Theory & Criticism	24	0	0	24	0	24	24	24	24
Master of Architecture (Architectural and Urban Design)									
	-	-	-	-	-	-	**72**	**0**	**24**
Certificate, Diploma, Masters in Design Science									
Audio Design	18	6	0	24	18	6	24	18	30
Building Design	24	0	0	30	0	18	36	0	36
Building Services	18	6	0	24	12	12	36	12	24
Design Computing	18	6	0	36	12	0	48	18	6
Digital Media	18	0	6	36	6	6	36	18	18
Facilities Management	24	0	0	24	12	12	36	18	18
Illumination Design	24	0	0	36	6	6	36	18	18
Sustainable Design	18	6	0	24	12	12	24	18	30
Certificate, Diploma, Masters in Facilities Management									
	24	**0**	**0**	**24**	**12**	**12**	**36**	**18**	**18**
Certificate, Diploma, Masters in Heritage Conservation									
	18	**6**	**0**	**30**	**6**	**12**	**48**	**12**	**12**
Certificate, Diploma, Masters in Urban Design									
	18	**0**	**6**	**36**	**6**	**6**	**48**	**12**	**12**
Master of Urban Design (Urban Design and Planning)									
	-	-	-	-	-	-	**72**	**0**	**24**
Certificate, Diploma, Masters in Urban & Regional Planning									
	16	0	8	24	0	24	48	0	24
Heritage Conservation	-	-	-	-	-	-	48	18	6
Housing Studies	-	-	-	-	-	-	48	12	12
Urban Design	-	-	-	-	-	-	4 8	2 4	0

Degrees and specialisations

Architecture

The Architecture Program addresses a future in which the role of the professional architect will increasingly be to move, with agility and expertise, between different environmental and design disciplines in the different cultural regions of the World. Leading architects are now often involved in the design of new materials, structures, exhibitions, graphics, film, digital video, furniture, fashion, lighting, household products, theatre sets and art installations, as well as in the architect's traditional role as planner of houses, offices, schools, museums, airports, public spaces and city master plans, etc. Architects increasingly comprehend the place of their activity within the broad realm of ideas, and philosophers are increasingly being drawn to architecture by the directness in which it must both make sense of, and create the contemporary world.

The Faculty of Architecture is an amalgam of leading-edge, research-led programs, including Design Computing, Digital Media, Urban Design, Urban and Regional Planning, Sustainable Design, Environment-Behaviour Studies, and Allied Fine Arts, each of which operates as an independent discipline, and also as an integral component of the Architecture Program, which is intended to prepare students for the developing multi-faceted and multi-ability role of the professional architect. The core units of study cover architectural history, theory and criticism, architectural technologies and architectural design. Options and electives are available in the other related programs of the Faculty.

Architectural History Theory and Criticism

The graduate program in Architectural History, Theory and Criticism consists of advanced study in contemporary and recent theories of architecture using historical enquiry. It can prepare the student for further MPhil and PhD studies in the discipline, or for academic careers in architectural history, or in architectural journalism and writing.

Architectural Design

The graduate program in Architectural Design consists of advanced studio-based inquiry into architecture as a discipline, and involves experimental research into the manner and methods of conceiving contemporary architecture. The core units of study include architectural history, theory and criticism. Students may apply to extend the program into a two-year joint Master of Architecture (Architectural and Urban Design) by taking additional units from the urban design program.

Design Science

Audio Design

The program offers a unique balance of studio-based production subjects and laboratory-based theoretical and investigative subjects. It aims to extend students' existing skills to a high level of profi-

ciency and professionalism in the various disciplines that contribute to the audio field. The program suits people with an academic and/or professional track record in audio or related areas, wishing to extend the breadth and level of their expertise.

Much of the work in the Audio Design program takes place in the Faculty of Architecture's sound studio or acoustical laboratory. The sound studio is equipped for both recording and production, utilising current digital sound and video resources. The acoustical laboratory has an anechoic room and a reverberant room, and is equipped with state-of-the-art acoustical measurement and analysis tools.

A student in the Audio Design program has the opportunity to develop a sophisticated understanding of, and skills in, audio production and its application to new media, audio system and component design, audio and architectural acoustics, digital audio systems and electronics, and music as it relates to audio design. Students are exposed to world-class research activity, and have the opportunity to do research projects of their own. The program is currently developing in the areas of new media, subjective acoustics, spatial audio (virtual sound space), and music technology.

The core units of study in this program are listed in the Table of Graduate Studies. There is flexibility to study areas of specific interest to each student. Options are available in other related programs offered by the Faculty (eg, Design Computing, Digital Media) and elective units may be taken from any other program in the Faculty or from other relevant programs at The University of Sydney.

Building

This program provides an opportunity for people involved in the building industry to receive a broad education/professional development in key aspects of the industry today and in the future. Provides an overview of building science and allows you to specialise in areas such as acoustics, building aerodynamics, CAD, structures, building services, and environmental science. The units of study are aimed at architects, building designers and engineers who require a greater understanding of the science and technology of building design and construction, and provide a range of knowledge and skills for educators in the building science area.

Building Services

This program aims to accelerate the acquisition of knowledge and skills for professionals currently employed in the building services industry, to provide continuing professional development for those in the related fields of architecture and the building industry or to provide vocational training for those intending to transfer into this industry.

The core units of study in this program are listed in the Table of graduate units of study. There is flexibility to study areas of specific interest to each student. Options are available in other related programs offered by the Faculty (eg, Building Services, Design Computing, Facilities Management, Illumination Design, Sustainable Design) and elective units may be taken from any other program in the Faculty or from other relevant programs at The University of Sydney.

Design Computing

From milk cartons to massive multiplayer online games (MMOG), the world around us is designed. The scale and complexities of contemporary works such as the National Aquatic Center in Beijing, China, animation sequences in The Lord of the Rings: The Two Towers, and online games where hundreds or thousands of players simultaneously interact in a persistent world places computation at the focus of nearly all design disciplines. Without computers, landmark buildings such as Gehry's Museo Guggenheim Bilbao and iconic objects such as the Apple iPod could not have been designed. The profound influence and centrality of computation elevates the standard of innovations in design.

The postgraduate Design Computing program aims to prepare you to tackle complex design projects, innovate new methods for designing with computers, and to create new designed artefacts which could only be realised by computer.

The Design Computing program offers two sub-disciplines which highlight new directions in the design computing profession and the research and practice expertise of the academic staff: entertainment computing and computational design. The units of study in the entertainment computing sub-discipline aim to teach advanced software and hardware development to facilitate implementing entertainment systems. The units of study in the computational design sub-discipline aim to bring forth the state-of-the-art in industry practice and research in implementing systems that support and automate design practice.

The internationally recognised academic staff and rigorous selection of postgraduate students from multidisciplinary fields ensures a collegial, stimulating and challenging environment in which to acquire state-of-the-art skills and imagine inventive innovations. Graduates from the design computing program are sought by architectural, engineering, and design firms that require strategic developments in their use of computing.

Digital Media

This program addresses and presents current and emerging paradigms of information technology and computing in the realm of digital media. It is aimed specifically at developing a broad technical and aesthetic awareness of the issues and skills relating to the production of interactive digital media for both off line (CD-ROM) and on line (Internet) applications. Teaching within the course imparts both a general and specialist understanding of digital media - its strengths and limitations and how the technology can be realised effectively in the design professions. This involves the development of knowledge and skills in 3D modelling, multimedia, Web design, digital media production, and sound design. At the end of the course, students will have an electronic portfolio of design presentations that demonstrate the effective use of multimedia, animation, and modelling.

Units of study in the Digital Media program are organised in a two-tiered structure comprising foundational and advanced levels. In most cases, foundational units are prerequisites or assumed knowledge for subsequent advanced units. The foundational tier aims to introduce conceptual knowledge across a representative range of Digital Media areas of learning. Advanced units develop this knowledge and experience further. Advanced units may be selected in clusters that foster a particular specialisation or focus. Students should observe the requirements for core, options and elective units of study when making a selection.

Digital Media Foundation units: Theory and Practice of Digital Design (DESC 9174), 3D Modelling & Photorealism (DESC 9019), Digital Media Production (DESC 9091), Web Design & Programming (DESC 9175), Interactive Multimedia Design (DESC 9068)

Digital Media Advanced units: 3D Animation 1 (DESC 9092), 3D Animation 2 (DESC 9141), Digital Compositing and Visual Effects (DESC 9156), Advanced Interaction Design (DESC 9142), Visual Perception and Digital Imaging (DESC 9155), Digital Media Design Studio [permission required] (DESC 9157), Sound Design for New Media (DESC 9117), Digital Video Design and Production (DESC 9125), Creative Systems (DESC 9176), Computer Supported Collaborative Design (DESC 9177), Computer Integrated Design (DESC 9178), Ambient Visualisation with Devices (DESC 9179), Designing Virtual Worlds (DESC 9180), Immersive Design Spaces (DESC 9181).

Facilities Management

Every organisation uses buildings of some sort and their occupation incurs recurrent costs for rent, rates, cleaning, energy consumption, water, security, etc, amounting in time to more than the capital cost of creating the buildings in the first place. Facility Managers have the responsibility of ensuring that their employers' premises assist them in fulfilling their core business objectives, retaining their capital value through appropriate maintenance, as well as obtaining value from their day-to-day operating costs. This program recognises that the facilities manager requires an understanding of business finance and management information as well as the technical areas of buildings, per se. Emphasis is placed on understanding the strategic objectives of the organisation, and the way that facilities contribute towards their realisation. You will be encouraged to direct your learning to your working situation where appropriate, through your assignments.

The Facilities Management program may be completed as part of a Graduate Certificate, Graduate Diploma or Master of Design Science

(Facilities Management) or a Master of Design Science with two streams, one of which is Facilities Management.

The program may also be taken as a named qualification: Graduate Certificate, Graduate Diploma of Master of Facilities Management.

Master of Commerce/Master of Facilities Management
The Master of Commerce/Facilities Management award course is a path-breaking initiative in cross-disciplinary postgraduate education between the Faculty of Economics and Business and the Faculty of Architecture. Integrating specialised study in facilities management with carefully tailored study in key areas of contemporary business thought and practice, the program offers facilities managers, general business managers and entrepreneurs alike a specially crafted and cohesive program of study that draws together knowledge from the fields of strategic management, business decision-making, project management, organisational studies, risk management, human resource management, accounting principles and processes, business law and marketing, and facilities management. Although built around a core of essential knowledge, the program also allows students scope to undertake advanced study in one of more areas of business practice. The course takes two years full-time.

Interested students should make enquiries with the Faculty of Economics and Business.

Illumination Design

A professional program for architects, interior designers, engineers, ergonomists and related professionals. The aim is to improve the quality of lighting design and the quality of the luminous environment.

This program is one of only a few in the world. Its emphasis is on producing good lighting designers by introducing you to the multidisciplinary background of lighting knowledge before integrating this knowledge into the general process of lighting design. Successful completion of the core will qualify you for full membership of the Illuminating Engineering Society of Australia and New Zealand, subject to the required practical experience.

Sustainable Design

This program provides the necessary skills and knowledge to design energy-efficient and environmentally conscious buildings. It addresses the relationship between architecture and current environmental issues, and it explores environmentally sustainable architecture.

The core units of study in this program are listed in the Table of graduate units of study. There is flexibility to study areas of specific interest to each student. Options are available in other related programs offered by the Faculty (e.g., Building Services, Facilities Management, Illumination Design) and elective units may be taken from any other program in the Faculty or from other relevant programs at The University of Sydney.

Heritage Conservation

The program's primary aim is to develop skills in the assessment, interpretation, management, formulation of policy, and documentation of culturally significant places, including buildings, sites and cultural landscapes. Secondary aims include the analysis of pressures for change and the promotion of cross-cultural study.

The program emphasises the importance of management issues and a practical understanding of mechanisms of statutory authorities, both local and international, which affect conservation and development.

A professional placement provides a link between the academic core of the program and the discipline and methods of practice.

Urban Design

Good urban design depends on the abilities to:

- recognise and define urban design problems;
- investigate the evolution, structure, form and character of urban places;
- draw ideas, knowledge and skills from a range of disciplines and apply these to urban projects;
- generate strong, purposeful and visionary urban design initiatives (concepts, master plans, guidelines, strategies, etc);
- evaluate urban design programs, proposals and built works;
- work successfully in interdisciplinary design teams and with private and public organizations and communities;
- present proposals and information in clear, convincing and innovative ways; and
- keep abreast with current urban design issues, methods, theories and ideas.

The Urban Design program aims to develop these abilities. They are necessary for the preparation and evaluation of urban design policies, frameworks, guidelines, master plans and concepts. A strong foundation in urban design is also essential for development assessment. And it will enhance perspectives on related areas such as urban conservation and the provision and design of infrastructure. Further, there is a small but growing demand for urban design educators and media commentators. Graduates from the Sydney program work in all of the above areas in cities and towns across Australia and all other continents.

The core and optional units for the program are listed in the Table of graduate units. Of the Options, PLAN 9048 Environmental Design and Planning is especially recommended for its coverage of ecological dimensions of urban development. ARCH 9051 Urban Design: the Impact of Modernisation is suggested for those wishing to extend their knowledge of urban design history. PLAN 9051 Urban Design and Development Control is a means of enhancing development assessment skills. And for those desiring to gain insights into the urbanism of another culture (perhaps essential in today's world) ARCH 9061 East Asian Architecture and Urbanism (Classical) and ARCH 9064 East Asian Architecture and Urbanism (Modern) are strongly recommended.

Urban and Regional Planning

The sustainable management of our cities and regions is one of the most pressing issues in the 21st century. Urban and regional planners are at the forefront of this challenge: working in government and the private sector to guide urban and regional change and to manage the social, environmental, and economic impacts of development. Specialist planners work in fields such as urban design, heritage conservation, and housing policy.
The Faculty's urban and regional planning program provides the required knowledge and skills for professional planning practice within Australia. The program aims to introduce students to contemporary planning theories and debates while instilling professional expertise in key areas of planning practice. The program is accredited by the Planning Institute of Australia (PIA, formerly RAPI). Masters graduates are eligible, subject to professional experience requirements, for corporate membership of the PI A.

Master of Transport Management/Master of Urban and Regional Planning
The Master of Transport Management/Master of Urban and Regional Planning award course is a path-breaking initiative in cross-disciplinary postgraduate education between the Faculties of Economics and Business and Architecture. Integrating specialised study in urban and regional planning and transport management with carefully tailored study in key areas of urban and transport planning, the program offers urban and regional planners a specially crafted and cohesive program of study that draws together knowledge from the fields of land use and transport planning, urban design, transport policy, environmental management, transport economics. Although built around a core of essential knowledge, the program also allows students scope to undertake advanced study in one of more areas of urban, regional and transport planning. Students will be prepared for careers in local government traffic and planning as well as regional and national planning organisations as well as private consultants engaged in transportation and traffic management. The course takes two years full-time.

Students interested in the combined degree should make enquiries with the Faculty of Economics and Business Faculty of Economics and Business.

Table G: Table of Graduate units of study

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
Students must complete the core and optional units listed for their degree and/or stream to the minimum specified in the Table of Requirements. Electives for all degrees and streams may be chosen from anywhere in the table.				
Miscellaneous elective units				
ARCH 9039	General Elective 1	6	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9040	General Elective 2	6	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9041	General Elective 3	4	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9042	General Elective 4	4	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9043	General Elective 5	2	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 2, Semester 1
ARCH 9044	General Elective 6	2	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9058	General Elective 7	6	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9059	General Elective 8	6	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 2, Semester 1
DESA 9001	Graduate Art Studio (Graphic Design)	6	NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. A materials fee applies to some Art Workshops units.	Semester 1, Semester 2
DESA 9002	Graduate Art Studio (Graphic Design 2)	6	P DESA 9001 NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. A materials fee applies to some Art Workshops units.	Semester 1
DESA 9003	Graduate Art Studio (Photography)	6	NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. A materials fee applies to some Art Workshops units.	Semester 1, Semester 2
Honours units				
For the award of the Master degree with honours candidates must complete both the following units, either full time in one semester or part time over two semesters. A Weighted Average Mark of 75 is required for enrolment.				
ARCH 9045	Dissertation 1	12	**P** 48 credit points. C ARCH 9046 N May not be counted with ARCH (9031 or 9060), PLAN (9010, 9011, 9018) NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.	Semester 1, Semester 2
ARCH 9046	Dissertation 2	12	C ARCH 9045	Semester 1, Semester 2
Research student units				
These units are primarily intended for students in research degrees (PhD, MPhil). Other students are welcome but should seek advice prior to enrolment.				
ARCF 9001	Modes of Inquiry: Research & Scholarship	6	NB: Permission required unless enrolled in a research degree. This unit is compulsory for all MPhil and PhD students in the Faculty of Architecture. It must be taken at the first opportunity.	Semester 1
ARCF 9002	Nature of Theory	6	NB: Permission required unless enrolled in a research degree. Required unit for MPhil and PhD students in the EBS or URPP disciplinary groups.	Semester 2
DESC 9079	Statistics in Environmental Design	4	NB: Recommended for MPhil(Arch) and PhD students requiring statistical skills for their research.	Semester 2
DESC 9105	Neural Network Architecture and Applicat	6	NB: Recommended for research students	Semester 1
Certificate, Diploma and Master of Architecture				
Architectural Design Stream				
Core units				
ARCH 9048	History of Modern Architecture Theories	6		Semester 1
ARCH 9049	Contemporary Architectural Theories	6		Semester 2
ARCH 9052	Graduate Architectural Design 1	12	NB: Permission of coordinator required unless enrolled in the Graduate Certificate, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&UrbDes).	Semester 1, Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
ARCH 9053	Graduate Architectural Design 2	12	PARCH9052 NB: Permission of coordinator required unless enrolled in the Graduate Certificate,, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&Urb Des).	Semester 2, Semester 1
Optional units				
ARCH 9051	Urban Design:The Impact of Modernisation	6		Semester 1
ARCH 9062	Urban Design - Ideas and Methods	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9022	Semester 1
ARCH 9061	East Asian Arch & Urbanism (Classic		NB: *** No info available for 2006. ***	
ARCH 9064	East Asian Arch & Urbanism (Modern)	6	NARCH9054 NB: This unit is offered in even numbered years only.	Semester 1
ARCH 9070	Aesthetic Assessment of Herit Landsca		NB: *** No info available for 2006. ***	
ARCH 9072	Graduate Architecural Design 3	12	PARCH 9053 NB: Permission of coordinator required unless enrolled in the Graduate Certificate,, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&UrbDes).	Semester 1, Semester 2
ARCH 9073	Architecture Globalisation Urbanisation	6		Semester 2
DESC 9019	3D Modelling and Photorealism	6	C Corequisite or Prerequisite: DESC 9139 or DESC 9174 NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video streams streams. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9071	Organisational Analysis and Behaviour	6		SI Intensive
DESC 9180	Designing Virtual Worlds	6	C DESC 9174 NDESC9103	Semester 2

Architectural History, Theory and Criticism Stream

Core units				
ARCH 9048	History of Modern Architecture Theories	6		Semester 1
ARCH 9049	Contemporary Architectural Theories	6		Semester 2
ARCH 9051	Urban Design:The Impact of Modernisation	6		Semester 1
ARCH 9073	Architecture Globalisation Urbanisation	6		Semester 2
Optional units				
ARCH 9052	Graduate Architectural Design 1	12	NB: Permission of coordinator required unless enrolled in the Graduate Certificate,, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&UrbDes).	Semester 1, Semester 2
ARCH 9053	Graduate Architectural Design 2	12	PARCH9052 NB: Permission of coordinator required unless enrolled in the Graduate Certificate,, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&Urb Des).	Semester 2, Semester 1
ARCH 9062	Urban Design - Ideas and Methods	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9022	Semester 1
ARCH 9061	East Asian Arch & Urbanism (Classic		NB: *** No info available for 2006. ***	
ARCH 9064	East Asian Arch & Urbanism (Modern)	6	NARCH9054 NB: This unit is offered in even numbered years only.	Semester 1
ARCH 9070	Aesthetic Assessment of Herit Landsca		NB: *** No info available for 2006. ***	
DESC 9019	3D Modelling and Photorealism	6	C Corequisite or Prerequisite: DESC 9139 or DESC 9174 NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video streams streams. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9071	Organisational Analysis and Behaviour	6		SI Intensive
DESC 9180	Designing Virtual Worlds	6	C DESC 9174 NDESC9103	Semester 2

Architectural and Urban Design Stream

These units are for the 96 credit point Master of Architecture (Architectural & Urban Design)				
Core units				
ARCH 9052	Graduate Architectural Design 1	12	NB: Permission of coordinator required unless enrolled in the Graduate Certificate,, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&UrbDes).	Semester 1, Semester 2
ARCH **9053**	Graduate Architectural Design 2	12	PARCH9052 NB: Permission of coordinator required unless enrolled in the Graduate Certificate, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&Urb Des).	Semester 2, Semester 1

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
ARCH 9048	History of Modern Architecture Theories	6		Semester 1
ARCH 9049	Contemporary Architectural Theories	6		Semester 2
ARCH 9001	Urban Design Studio A	12	NB: Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or MArch(Arch & UrbDes) or MUrbDes(UrbDes & Plan). It is recommended that the unit Urban Design - Ideas and Methods or Urban Morphology, is taken either before or concurrently with this studio.	Semester 1, Semester 2
ARCH 9002	Urban Design Studio B	12	PARCH 9001	Semester 1, Semester 2
ARCH 9062	Urban Design - Ideas and Methods	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9022	Semester 1
ARCH 9063	Urban Morphology	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9021	Semester 2

Certificate, Diploma and Master of Design Science

Audio Design Stream

Core **units**				
DESC **9011**	Audio Production	6	NB: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.	Semester 1
DESC 9115	Digital Audio Systems	6	NB: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.	Semester 1
DESC 9117	Sound Design for New Media	6	NB: Permission required unless enrolled in the Audio, Digital Media or Film and Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9138	Architectural and Audio Acoustics	6		Semester 1
Optionall units				
DESC 9009	Audio Internship/Audio Project	6	NB: Department permission required for enrolment.	Semester 2
DESC 9042	Electrics Electronics & Electroacoustics	6		Semester 1
DESC 9090	Audio Systems and Measurement	6	A DESC 9138.	Semester 2
DESC 9116	Loudspeaker Design	6		Semester 2
DESC 9133	Architectural Acoustics Practice	6	A DESC9138 or DESC9012.	Semester 2
DESC 9134	Audio Seminar	6	NB: Department permission required for enrolment.	Semester 2
DESC **9135**	Digital Audio Production with ProTools	6	NB: Permission required unless enrolled in the Audio Design stream. Enrolment numbers are limited by teaching resources.	SI Lateint
DESC **9136**	Music Technologies	6	NB: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.	Semester 2
DESC **9137**	Spatial Audio	6		Semester 1

Building Stream

Core **units**				
DESC **9014**	Building Construction Technology	6		Semester 1
DESC 9074	Project and Contract Management	6		S2 Intensive
DESC 9118	Building Design Practice 1	6		S2 Intensive
DESC 9119	Building Design Practice 2	6	C Prerequisite or Corequisite DESC9118	SI Intensive
DESC 9145	Sustaining the Built Environment	6		SI Intensive
DESC 9151	Introduction to Building Services	6	NDESC2101 andARCH5202	SI Intensive
DESC 9178	Computer Integrated Design	6	A Any computer-aided design platform (e.g., AutoCAD, ArchiCAD, Microstation) C DESC 9174 or DESC 9139 N DESC9096 and DECO1007	Semester 2
PLAN 9061	Planning Procedures	6	N PLAN 9020, PLAN9044 NB: Enrolment numbers are limited by teaching resources. Permission required in semester 1 unless enrolled in Urban and Regional Planning	51 Intensive, 52 Intensive
PLAN 9048	Environmental Design and Planning	6		S2 Intensive

Unit of Study		***CP***	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
Building Services Stream				
Core **units**				
DESC **9014**	Building Construction Technology	6		Semester 1
DESC 9040	Electrical Services	6	NB: This unit of study may be offered in alternate years.	SI Intensive
DESC 9049	Financial and Managerial Accounting	6		SI Intensive
DESC 9067	Mechanical Services	6	NB: This unit of study may be offered in alternate years.	SI Intensive
DESC 9074	Project and Contract Management	6		S2 Intensive
DESC 9151	Introduction to Building Services	6	NDESC2101 andARCH5202	SI Intensive
Optionall units				
DESC 9001	Air-Conditioning Des		NB: *** No info available for 2006. ***	
DESC 9015	Building Energy Analysis	6		S2 Intensive
DESC 9047	Strategic Facility Management	6		SI Intensive
DESC 9048	Operational Facility Management	6		S2 Intensive
DESC 9050	Fire Protection Services	6	NB: This unit of study is offered in even numbered years only.	S2 Intensive
DESC 9059	Hydraulic Services	6	NB: This unit of study is offered in even numbered years only.	S2 Intensive
DESC 9111	Energy Management in Buildings	6		S2 Intensive
DESC 9112	Service Provision	6		SI Intensive
DESC 9113	Computer Aided Facility Management	6	A DESC9047 and DESC9048	S2 Intensive
DESC 9146	Climate, Comfort and Sustainable Design	6		SI Intensive
DESC 9148	Sustainable Building Design Practice	6		S2 Intensive
DESC 9164	Light Sources and Luminai		NB: *** No info available for 2006. ***	
DESC 9166	Photo & Colorimetric Concepts & Mensu		NB: *** No info available for 2006. ***	
DESC 9167	Vision and Visual Percept		NB: *** No info available for 2006. ***	
DESC 9168	The Visual Field and Human Fact		NB: *** No info available for 2006. ***	
DESC 9170	Services Control Systems	6	P DESC9067 N DESC9077 NB: This unit of study is offered in even numbered years only.	S2 Intensive
DESC 9171	Vertical Transportation Services	6	N DESC9084. NB: This unit of study is offered in even numbered years only.	S2 Intensive
DESC 9178	Computer Integrated Design	6	A Any computer-aided design platform (e.g., AutoCAD, ArchiCAD, Microstation) C DESC 9174 or DESC 9139 N DESC9096 and DECO1007	Semester 2
Design Computing Stream				
Core **units**				
DESC **9174**	Theory and Practice of Digital Desgn	6	N May not be counted with DESC 9139 NB: Permission required unless enrolled in the Design Computing or Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9175	Web Design and Programming	6	C DESC 9174 or DESC 9139 N DESC 9123 and 9132 and 9140 NB: Permission required unless enrolled in the Design Computing or Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9176	Creative Systems	6	C DESC 9174 or DESC 9139	Semester 1

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DESC 9177	Computer Supported Collaborative Design	6	A DESC9175 C DESC 9174 or DESC 9139 N DESC9097	Semester 2
DESC 9178	Computer Integrated Design	6	A Any computer-aided design platform (e.g., AutoCAD, ArchiCAD, Microstation) C DESC 9174 or DESC 9139 N DESC9096 and DECO1007	Semester 2
DESC 9179	Ambient Visualisation with Devices	6	C DESC 9174 NB: Permission required unless enrolled in the Design Computing stream. Enrolment numbers are limited by teaching resources.	Semester 2
DESC 9180	Designing Virtual Worlds	6	C DESC 9174 NDESC9103	Semester 2
DESC 9181	Immersive Design Spaces	6	C DESC9174 NB: Permission required unless enrolled in the Design Computing stream. Enrolment numbers are limited by teaching resources.	Semester 1
DESC 9182	Design Computing Graduate Studio	12	C DESC 9174	Semester 1
Optional units				
Optional units for the Design Computing stream include ;any core unit from the Audio Design or Digital Media programs.				

Digital Media Stream

Core units				
DESC 9174	Theory and Practice of Digital Desgn	6	N May not be counted with DESC 9139 NB: Permission required unless enrolled in the Design Computing or Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9175	Web Design and Programming	6	C DESC 9174 or DESC 9139 N DESC 9123 and 9132 and 9140 NB: Permission required unless enrolled in the Design Computing or Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9019	3D Modelling and Photorealism	6	C Corequisite or Prerequisite: DESC 9139 or DESC 9174 NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video streams streams. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC **9068**	Interactive Multimedia Design	6	A DESC (9091 or 9123 or 9175) **P** DESC9139 or DESC 9174 N DECO2002 NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video stream. Enrolment numbers are limited by teaching resources.	Semester 2
DESC 9091	Digital Media Production	6	C DESC9139 or DESC9174 NB: Permission required unless enrolled in the Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9092	3D Animation 1	6	PDESC9019 NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. First preference to students in the Design Computing, Digital Media or Film and Digital Video stream.	Semester 1, Semester 2
DESC 9142	Advanced Interaction Design	6	P DESC9068 and DESC (9123 or 9175) and DESC (9139 or 9174) NB: Permission required unless enrolled in the Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1
DESC 9157	Digital Media Design Studio	12	P DESC (9019 and 9068 and 9091 and (9123 or 9175) and (9139 or 9174)). C DESC 9142. NB: Enrolment numbers are limited by teaching resources. First preference given to students in the Digital Media stream. This unit is intended for Masters level students.	Semester 1
Optional units				
DESC 9117	Sound Design for New Media	6	NB: Permission required unless enrolled in the Audio, Digital Media or Film and Digital Media stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9125	Digital Video Design and Production	6	NB: Permission required unless enrolled in the Digital Media or Film and Digital Video stream. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2
DESC 9141	3D Animation 2	6	P DESC 9092. NB: Department permission required for enrolment. Enrolment numbers are limited by teaching resources. First preference to students who receive high marks in the DESC9092 and are enrolled in the Design Computing, Digital Media or Film and Digital Video streams.	Semester 1, Semester 2
DESC 9155	Visual Perception and Digital Imaging	6	P DESC9091 Digital Media Production NB: Department permission required for enrolment. Enrolment numbers are limited by teaching resources. First preference given to students in the Digital Media stream.	S2 Intensive
DESC 9156	Digital Compositing and Visual Effects	6	P DESC (9091 and 9092 and 9125). NB: Department permission required for enrolment. Enrolment numbers are limited by teaching resources. First preference given to students in the Digital Media stream.	Semester 1, Semester 2
DESC 9176	Creative Systems	6	C DESC 9174 or DESC 9139	Semester 1
DESC 9177	Computer Supported Collaborative Design	6	A DESC9175 C DESC 9174 or DESC 9139 NDESC9097	Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DESC 9178	Computer Integrated Design	6	A Any computer-aided design platform (e.g., AutoCAD, ArchiCAD, Microstation) C DESC 9174 or DESC 9139 N DESC9096 and DECO1007	Semester 2
DESC 9179	Ambient Visualisation with Devices	6	C DESC 9174 NB: Permission required unless enrolled in the Design Computing stream. Enrolment numbers are limited by teaching resources.	Semester 2
DESC 9180	Designing Virtual Worlds	6	C DESC 9174 NDESC9103	Semester 2
DESC 9181	Immersive Design Spaces	6	C DESC9174 NB: Permission required unless enrolled in the Design Computing stream. Enrolment numbers are limited by teaching resources.	Semester 1

Facilities Management Stream

Core units				
DESC 9047	Strategic Facility Management	6		SI Intensive
DESC 9048	Operational Facility Management	6		S2 Intensive
DESC 9049	Financial and Managerial Accounting	6		SI Intensive
DESC 9071	Organisational Analysis and Behaviour	6		SI Intensive
DESC 9074	Project and Contract Management	6		S2 Intensive
DESC 9183	Risk Management	6	A DESC 9047	S2 Intensive
Optional1 units				
ARCH 9026	Development Finance	4		S2 Intensive
ARCH 9028	Conservation Methods and Practices	12		Semester 1
DESC 9014	Building Construction Technology	6		Semester 1
DESC 9111	Energy Management in Buildings	6		S2 Intensive
DESC 9112	Service Provision	6		SI Intensive
DESC 9113	Computer Aided Facility Management	6	A DESC9047 and DESC9048	S2 Intensive
DESC 9151	Introduction to Building Services	6	NDESC2101 andARCH5202	SI Intensive
DESC 9170	Services Control Systems	6	P DESC9067 N DESC9077 NB: This unit of study is offered in even numbered years only.	S2 Intensive
DESC 9172	Building Asset Management	6	N DESC9088.	SI Intensive
PLAN 9061	Planning Procedures	6	N PLAN 9020, PLAN9044 NB: Enrolment numbers are limited by teaching resources. Permission required in semester 1 unless enrolled in Urban and Regional Planning	51 Intensive, 52 Intensive

Illumination Design Stream

Core units				
DESC 9164	Light Sources and Luminai		NB: *** No info available for 2006. ***	
DESC 9165	Lighting Design	12	N DESC9064. NB: This unit of study is offered in even numbered years only.	SI Intensive
DESC 9166	Photo & Colorimetric Concepts & Mensu		NB: *** No info available for 2006. ***	
DESC 9167	Vision and Visual Percept		NB: *** No info available for 2006. ***	
DESC 9168	The Visual Field and Human Fact		NB: *** No info available for 2006. ***	
DESC 9169	Daylight in Buildings	6	NDESC9106 NB: This unit of study is offered in even numbered years only.	SI Intensive
Optional1 units				
DESC 9019	3D Modelling and Photorealism	6	C Corequisite or Prerequisite: DESC 9139 or DESC 9174 NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video streams streams. Enrolment numbers are limited by teaching resources.	Semester 1, Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
DESC 9040	Electrical Services	6	NB: This unit of study may be offered in alternate years.	SI Intensive
DESC 9049	Financial and Managerial Accounting	6		SI Intensive
DESC 9074	Project and Contract Management	6		S2 Intensive
DESC 9111	Energy Management in Buildings	6		S2 Intensive
DESC 9151	Introduction to Building Services	6	NDESC2101 andARCH5202	SI Intensive
DESC 9152	Lighting Design Masterclass	6	A Lighting design fundamentals. NB: Department permission required for enrolment. This unit of study is offered in even numbered years only.	SI Intensive
DESC 9153	Lighting Internship	6	A Lighting design fundamentals. NB: Department permission required for enrolment. Graduate Diploma or Masters students only.	Semester 1, Semester 2
DESC 9154	Lighting Design Software	6	A Lighting design fundamentals P 24 credit points NB: Graduate Diploma or Masters only. This unit of study is offered in even numbered years only.	SI Intensive
DESC 9160	Lighting Photogra		NB: *** No info available for 2006. ***	
DESC 9161	Theatre and Performance Light		NB: *** No info available for 2006. ***	
DESC 9170	Services Control Systems	6	P DESC9067 N DESC9077 NB: This unit of study is offered in even numbered years only.	S2 Intensive

Sustainable Design Stream

Core **units**				
DESC **9145**	Sustaining the Built Environment	6		SI Intensive
DESC 9146	Climate, Comfort and Sustainable Design	6		SI Intensive
DESC 9147	Sustainable Building Design Principles	6		S2 Intensive
DESC 9148	Sustainable Building Design Practice	6		S2 Intensive
Optionall units				
DESC 9015	Building Energy Analysis	6		S2 Intensive
DESC 9111	Energy Management in Buildings	6		S2 Intensive
DESC 9149	Sustainable Design Workshop	6		Semester 1, Semester 2
DESC 9150	Sustainability Research Project	6		Semester 1, Semester 2
DESC 9151	Introduction to Building Services	6	NDESC2101 andARCH5202	SI Intensive
DESC 9165	Lighting Design	12	NDESC9064. NB: This unit of study is offered in even numbered years only.	SI Intensive
DESC 9169	Daylight in Buildings	6	NDESC9106 NB: This unit of study is offered in even numbered years only.	SI Intensive
PLAN 9048	Environmental Design and Planning	6		S2 Intensive

Certificate, Diploma and Master of Heritage Conservation

Core **units**				
ARCH 9028	Conservation Methods and Practices	12		Semester 1
ARCH 9031	Research Report	12	NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Available to Masters students only.	Semester 1, Semester 2
ARCH 9065	Interpretations of Cultural Environments	6	NARCH9003	Semester 1
ARCH 9066	Transformations of Cultural Environments	6	N May not be counted with ARCH 9007	S2 Intensive
ARCH 9067	Professional Placement	6	N May not be counted with ARCH 9014. NB: Permission required for enrolment unless enrolled in the Graduate Diploma or Master of Heritage Conservation program.	Semester 2

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
PLAN 9061	Planning Procedures	6	N PLAN 9020, PLAN9044 NB: Enrolment numbers are limited by teaching resources. Permission required in semester 1 unless enrolled in Urban and Regional Planning	51 Intensive, 52 Intensive
Optional units				
ARCH 9068	Trad Bldg and Conservation of Materials	6	N May not be counted with ARCH 9015. NB: This unit of study is offered in even numbered years only.	Semester 2
ARCH 9069	Conservation of Finishes & Mod Servi		NB: *** No info available for 2006. ***	
ARCH 9070	Aesthetic Assessment of Herit Landsca		NB: *** No info available for 2006. ***	
PLAN 9062	Planning Law	6	C PLAN (9020 or 9061) N PLAN 9021	Semester 2

Certificate, Diploma and Master of Urban Design

Without specialisation

Core units				
ARCH 9001	Urban Design Studio A	12	NB: Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or MArch(Arch & UrbDes) or MUrbDes(UrbDes & Plan). It is recommended that the unit Urban Design - Ideas and Methods or Urban Morphology, is taken either before or concurrently with this studio.	Semester 1, Semester 2
ARCH 9002	Urban Design Studio B	12	PARCH 9001	Semester 1, Semester 2
ARCH 9062	Urban Design - Ideas and Methods	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9022	Semester 1
ARCH 9063	Urban Morphology	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9021	Semester 2
ARCH 9060	Urban Design Report	12	PARCH 9001 **N** May not be counted with ARCH (9031, 9045 or 9046) or PLAN (9010, 9011 or 9018) NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. This unit is for Masters students in an Urban Design stream only.	Semester 1, Semester 2
Optional1 units				
ARCH 9026	Development Finance	4		S2 Intensive
ARCH 9051	Urban Design:The Impact of Modernisation	6		Semester 1
ARCH 9061	East Asian Arch & Urbanism (Classic		NB: *** No info available for 2006. ***	
ARCH 9064	East Asian Arch & Urbanism (Modern)	6	NARCH9054 NB: This unit is offered in even numbered years only.	Semester 1
ARCH 9065	Interpretations of Cultural Environments	6	NARCH9003	Semester 1
ARCH 9073	Architecture Globalisation Urbanisation	6		Semester 2
PLAN 9048	Environmental Design and Planning	6		S2 Intensive
PLAN 9051	Urban Design and Development Control	4	N PLAN9042	Semester 1
PLAN 9061	Planning Procedures	6	N PLAN 9020, PLAN9044 NB: Enrolment numbers are limited by teaching resources. Permission required in semester 1 unless enrolled in Urban and Regional Planning	51 Intensive, 52 Intensive
PLAN 9064	Land Use and Infrastructure Planning	6	N PLAN 9028.	S2 Intensive

Urban Design and Planning

These units are for the 96 credit point Master of Urban Design(Urban Design & Planning).

Core units				
ARCH 9001	Urban Design Studio A	12	NB: Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or MArch(Arch & UrbDes) or MUrbDes(UrbDes & Plan). It is recommended that the unit Urban Design - Ideas and Methods or Urban Morphology, is taken either before or concurrently with this studio.	Semester 1, Semester 2
ARCH 9002	Urban Design Studio B	12	PARCH 9001	Semester 1, Semester 2
ARCH 9062	Urban Design - Ideas and Methods	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9022	Semester 1
ARCH 9063	Urban Morphology	6	A Some prior study of architectural, urban or planning history. N May not be counted with ARCH 9021	Semester 2
PLAN **9031**	History and Theory in Urban Planning	4		Semester 1

Unit of Study		*CP*	*A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition*	*Session*
PLAN 9032	Argumentation/Discourse-Plan Procedure	4		Semester 2
PLAN 9051	Urban Design and Development Control	4	N PLAN9042	Semester 1
PLAN 9061	Planning Procedures	6	N PLAN 9020, PLAN9044 NB: Enrolment numbers are limited by teaching resources. Permission required in semester 1 unless enrolled in Urban and Regional Planning	S1 Intensive, S2 Intensive
PLAN 9062	Planning Law	6	C PLAN (9020 or 9061) N PLAN 9021	Semester 2
PLAN 9063	Foundations of Environmental Planning	6	N PLAN 9027	Semester 1
PLAN 9064	Land Use and Infrastructure Planning	6	N PLAN 9028.	S2 Intensive

Certificate, Diploma and Master of Urban and Regional Planning

All Master degree candidates are required to complete either a Report or Dissertation. Candidates of sufficient merit, who complete the Dissertation, will qualify for the award of the degree with Honours.

All streams

Core units

PLAN 9010	Planning Dissertation 1	12	P WAM of 70 and completion of all core requirements: PLAN (9005 and 9020 and 9021 and 9027 and 9028 and 9031 and 9032 and 9044 and 9051). N PLAN 9018, ARCH (9031, 9045, 9046 or 9060). NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. This unit is for Masters of Urban & Regional Planning students only. It MUST be taken in conjunction with PLAN 9011 Planning Dissertation 2, either in the same or following semester.	Semester 2, Semester 1
PLAN 9011	Planning Dissertation 2	12	C PLAN 9010. NB: This unit is for Masters of Urban & Regional Planning students only. It MUST be taken in conjunction with PLAN 9010 Planning Dissertation 1, either in the same or preceding semester.	Semester 1, Semester 2
PLAN 9018	Planning Report	12	P PLAN (9005 and 9020 and 9021 and 9027 and 9028 and 9031 and 9032 and 9044 and 9051) NB: Department permission required for enrolment. Submit an Independent Study Approval form, signed by your proposed supervisor, with your request to enrol. This unit is for Masters of Urban & Regional Planning students only. MURP students taking the Urban Design stream should enrol in ARCH 9060 Urban Design Report.	Semester 2, Semester 1
PLAN 9031	History and Theory in Urban Planning	4		Semester 1
PLAN 9032	Argumentation/Discourse-Plan Procedure	4		Semester 2
PLAN 9051	Urban Design and Development Control	4	N PLAN9042	Semester 1
PLAN 9061	Planning Procedures	6	N PLAN 9020, PLAN9044 NB: Enrolment numbers are limited by teaching resources„ Permission required inL semester 1 unless enrolled in Urban and Regional Planning	SI Intensive, S2 Intensive
PLAN 9062	Planning Law	6	C PLAN (9020 or 9061) N PLAN 9021	Semester 2
PLAN 9063	Foundations of Environmental Planning	6	N PLAN 9027	Semester 1
PLAN 9064	Land Use and Infrastructure Planning	6	N PLAN 9028.	S2 Intensive

Without specialisation

Optional units

PLAN 9045	Economic Tools and Community Develop-ment	6		S2 Intensive
PLAN 9048	Environmental Design and Planning	6		S2 Intensive
PLAN 9049	Development Project Planning and Des		NB: *** No info available for 2006. ***	
PLAN 9065	Urban Environment	6		Semester 1
PLAN 9066	International Planning Field Laborat		NB: *** No info available for 2006. ***	
PLAN 9067	Metropolitan Planning	6	P PLAN 9027 and 9028	S2 Intensive

Heritage Conservation Stream

Optional units

ARCH 9028	Conservation Methods and Practices	12		Semester 1

Unit	of	Study	CP	A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition	Session
ARCH 9065	Interpretations of Cultural Environments		6	N ARCH9003	Semester 1
Housing Studies Stream					
Optional units					
ARCH 9055	Housing Cultural Stud			NB: * * * No info available for 2006. * * *	
ARCH 9056	Housing Policy and Assista			NB: *** No info available for 2006. ***	
ARCH 9057	Housing & Urban & Regional Developm			NB: * * * No info available for 2006. * * *	
PLAN 9050	Housing for Health (Advanced)		6		S2 Intensive
Urban Design Stream					
Optional units					
ARCH 9001	Urban Design Studio A		12	NB: Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or MArch(Arch & UrbDes) or MUrbDes(UrbDes & Plan). It is recommended that the unit Urban Design - Ideas and Methods or Urban Morphology, is taken either before or concurrently with this studio.	Semester 1, Semester 2
ARCH 9062	Urban Design - Ideas and Methods		6	A Some prior study of architectural, urban or planning history. **N** May not be counted with ARCH 9022	Semester 1
ARCH 9063	Urban Morphology		6	A Some prior study of architectural, urban or planning history. **N** May not be counted with ARCH 9021	Semester 2

Units of study

Unit of study descriptions

ARCF 9001 **Modes of Inquiry: Research & Scholarship**

6 credit points. M Phil (Arch), Ph D (Architecture). Prof. Gary Moore. **Session:** Semester 1. **Classes:** Contact time of one 3-hour lecture/seminar per week, plus ca 6 hours of individual study per week during the semester. **Assessment:** Assessment is based on (1) evidence of having done and understood the readings as evidenced by critical contributions to class discussions, and (2) a preliminary research proposal between 2500-3000 words and no more than 15 pages. (Final research proposals for partial satisfaction of probationary requirements will remain the responsibility of the student in association with your Supervisor.) In assessing submissions, attention will be placed on evidence of development in four areas: (1) grasp of the subject matter of different modes of inquiry, research approaches and research methods, (2) the organisation of knowledge about research and scholarship, (3) ability to critically evaluate methods used in studies and (4) original thinking regarding appropriate modes of inquiry and research methodology for the research problems and questions under investigation. All submissions are to conform to the style and format of the Publication Manual of the APA (latest ed.) or equivalent style guide in the discipline of the student. Students are expected to complete the unit without an incomplete and to have at least a credit grade. *NB: Permission required unless enrolled in a research degree. This unit is compulsory for all MPhil and PhD students in the Faculty of Architecture. It must be taken at the first opportunity.*

Content

The unit Is a seminar with mini-lectures, presentations by members of the academic staff about research and scholarship methods in which they are most expert, critical review of readings, and discussions based on the seminar material, readings and research pre-proposals.

Objectives and Learning Outcomes

The purposes of this seminar are (1) to provide students with an understanding of different modes of inquiry and different ways of conducting research and scholarship relevant to the disciplines of the Faculty, which fall Into three clusters - computationally based methods, text-based methods and field-based methods - and include quantitative and qualitative approaches, scientific and post-modern approaches, and exploratory, confirmatory and developmental research. Specific methods explored will include experimental, laboratory and a variety of quasi-experimental, survey and ethnographic research approaches, text-, historical and archival-based scholarship, and computational axiom-, conjecture- and simulation-based approaches. Other purposes are (2) to introduce students to a range of practical skills for planning and conducting research and scholarship, and (3) to sharpen critical skills for reading, evaluating and interpreting research and scholarship. Upon successfully completing the seminar, students are expected to have an understanding of the range of modes of inquiry and methods of research and scholarship used across the disciplines associated with this Faculty. Readings from texts and other major readings will supplement the course.

ARCF 9002 **Nature of Theory**

6 credit points. M Phil (Arch), Ph D (Architecture). Professors Gary Moore, Edward Blakely and staff. **Session:** Semester 2. **Classes:** Contact time of one 2-3-hour seminar per week, plus ca 6-9 hours of student-directed work per week. **Assessment:** There will be one to two submissions (negotiable with each student to assure that the writing is appropriate to and useful for the stage you are in of your research), eg, a paper exploring the theoretical roots of the discipline in which the student is working, a paper critiquing one or more of the major theoretical directions that shapes the direction in the discipline of the student or the relevant major section on theory for your proposal or chapter(s) for your final thesis or dissertation. Assessment will be based equally on understanding of the readings and seminars as evidenced by class contributions, and the written submission. Topics are to be approved ahead of time. Papers are to conform to the style and format of the Publication Manual of the APA (latest ed.), MLA Style Guide, or equivalent style guide in the discipline of the student. Major readings will be drawn from major theoretical texts in the field, as well as from others suggested by visiting lecturers and/or students. Students are expected to complete the unit without an incomplete and to have at least a credit grade.

NB: Permission required unless enrolled in a research degree. Required unit for MPhil and PhD students in the EBS or URPP disciplinary groups.

Content

The purposes of this seminar are (1) to show research students how to trace the intellectual roots of their discipline and find the relevant theoretical literature in their field so that they can build their research thesis or dissertation on strong theoretical grounds, and (2) to provide research students with an understanding of the different theoretical perspectives and their philosophical presuppositions that underlie research in the disciplines covered by the Faculty (eg, initially but not limited to environment behaviour and society, and urban and regional planning and policy). The seminar will examine a number of different ways of conceptualising theory, and their philosophical presuppositions, and will look at a range of 'paradigms' and specific concepts. It will also look at a range of theoretical perspectives and specific theories pertinent to research in the disciplines of the Faculty. In the first years of offering, the focus will be on empirical social-science oriented field-based research, ie, research with a social empirical field component. The range of theoretical perspectives will include but not be limited to positivism, modernity and postmodernity, interactionalism, transactionalism and phenomenology, complex systems theory and chaos theory, and particular theories representative of each perspective. The seminar will also examine the philosophical nature of theory, the history and philosophy of science of theory, similarities and differences between explanatory and prescriptive theories and strategies for theory development, and will ask the question whether it is possible to have theories that are both explanatory that contribute to knowledge and normative that contribute towards policy, planning or design.

Objectives and Learning Outcomes

The primary objective is to enable research students to understand the theoretical roots of their discipline, to appreciate the similarities and differences between different theoretical stances to research appropriate in this Faculty, to examine the applicability of current theoretical directions and particular theories to architectural, environmental, and urban policy, planning, consulting and design, and to be prepared to use and develop specific theories in their own research

work. Upon successful completion of this course, students are expected to have a critical understanding of the range of theoretic perspectives in use and capable of being in use across the disciplines associated with this Faculty and a deep critical understanding of the theoretical perspectives and particular theories appropriate for their own research.

ARCH 9001 **Urban Design Studio A**
12 credit points. Grad Cert Urb Des. Mr Barrie Shelton. **Session:** Semester 1, Semester 2. **Classes:** Studio work, presentations and critiques. **Assessment:** Design and design-related projects and assignments, 100%.
NB: Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or MArch(Arch & UrbDes) or MUrbDes(UrbDes & Plan). It is recommended that the unit Urban Design - Ideas and Methods or Urban Morphology, is taken either before or concurrently with this studio.
Objectives
Students will be expected to demonstrate appropriate (professional-level) problem recognition, investigative, analytical, interpretative, deisgn and presentation skills and abilities on projects of an urban scale. Assessment may also embrace abilities to prepare and interpret project briefs, program proposals and work in groups.
Content
These studios are the heart of the urban design program. Values, knowledge and skills acquired in other units and from previous experience are supplemented and enhanced, and applied creatively to both the investigation and development phases of design projects at an urban scale. These may be concerned with the generation of strategies, frameworks, concepts, master plans, public space improvements, or other uban design purposes. They are chosen carefully to expose students to a range of contexts (central city, suburban, institutional campuses, etc) and contemporary issues concerning urban form, activity, transport and the implementation of projects.
Students are expected to extend their presentation methods by developing illustrative, writing and verbal skills appropriate to urban design. It is usual for the backgrounds of those enrolled in the studios to span at least architecture, planning and landscape architecture, with inter-disciplinary group work and essential part. Visionary and innovative approaches are encouraged.
Outcomes
The central aim of this unit is to develop abilities and skills (investigation, analysis and interpretation, design development and presentation) which will enable students to carry out urban design projects such as the preparation of strategies, frameworks, concepts and master plans in a professional and visionary manner.

ARCH 9002 **Urban Design Studio B**
12 credit points. Grad Cert Urb Des. Mr Barrie Shelton. **Session:** Semester 1, Semester 2. **Classes:** Studio work, presentations and critiques. **Prerequisites:** ARCH 9001. **Assessment:** Design and design-related projects and assignments, 100%.
Objectives
Students will be expected to demonstrate appropriate (professional-level) problem recognition, investigative, analytical, interpretative, deisgn and presentation skills and abilities on projects of an urban scale. Assessment may also embrace abilities to prepare and interpret project briefs, program proposals and work in groups.
Content
These studios are the heart of the urban design program. Values, knowledge and skills acquired in other units and from previous experience are supplemented and enhanced, and applied creatively to both the investigation and development phases of design projects at an urban scale. These may be concerned with the generation of strategies, frameworks, concepts, master plans, public space improvements, or other uban design purposes. They are chosen carefully to expose students to a range of contexts (central city, suburban, institutional campuses, etc) and contemporary issues concerning urban form, activity, transport and the implementation of projects.
Students are expected to extend their presentation methods by developing illustrative, writing and verbal skills appropriate to urban design. It is usual for the backgrounds of those enrolled in the studios to span at least architecture, planning and landscape architecture, with inter-disciplinary group work and essential part. Visionary and innovative approaches are encouraged.
Outcomes
The central aim of this unit is to develop abilities and skills (investigation, analysis and interpretation, design development and presentation) which will enable students to carry out urban design projects such as the preparation of strategies, frameworks, concepts and master plans in a professional and visionary manner.

ARCH 9026 **Development Finance**
4 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Assoc Prof Peter Phibbs. **Session:** S2 Intensive. **Classes:** Lectures and tutorials. **Assessment:** Applied and reflective exercises (equally weighted).
Objectives
The unit aims to impart a thorough and general understanding of development finance as it affects and is affected by the aims of urban and architectural design quality.
Content
The unit focuses on the economics of property development in the public and private sectors in ways that squarely address design quality. It explains the nature of real property and its markets, optimum financing models, principles of private versus public finance, property valuation, design scope and feasibility studies, as well as joint venturing, public-private partnerships and other innovatively financed design and development schemes.
Outcomes
Students will acquire the ability to operate fluidly, intuitively and creatively in designing in the context of both pragmatic and creative finance.
Paper assessments are designed to measure the ability of participants to both design in financially constrained contexts and develop finance strategies that meet high levels of design ambition.

ARCH 9028 **Conservation Methods and Practices**
12 credit points. Grad Cert Des Sc (Sustainable Des), UG Study Abroad Program. Mr Trevor Howells. **Session:** Semester 1. **Classes:** Lectures and site visits. **Assessment:** Three assignments (equally weighted).
Objectives
The aims of this unit are to develop practical skills in the methods and practices of conservation at an accepted professional level, and to interpret and apply the theory of practice taught in the mandatory core of the course in practical, on-site projects.
Content
The unit focuses on culturally significant structures and cultural landscapes and includes: methods of survey and documentation (locating, describing and recording components with possible heritage value; identifying and reading historic fabric; historic and archival research methods; thematic history methods; pattern recognition; natural systems; settlements; cultural mapping; aesthetic analysis; material and stylistic analysis); evaluation methodology (assigning heritage significance); assessment methodology (establishing conservation priorities); and appropriate conservation actions (conservation and management plans, policies and strategies).
Outcomes
At the end of the unit the student will successfully demonstrate:
- an understanding of the Australia ICOMOS Burra Charter and the ability to prepare, in accordance with current accepted professional practice, a conservation plan of a place or places of cultural significance;
- skill in methods and techniques of analysis, assessment and documentation of cultural significance; and
- the ability to develop relevant policies and strategies for the conservation of a variety places of cultural significance.
The intended outcomes are achieved through inquiry, individual study and research and are demonstrated by each student upon the successful completion of set assignments. The assignments are constructed to allow each student to demonstrate his or her level of understanding of the accepted professional methodology and practice in the preparation and presentation of a conservation plan. Assessment criteria based on unit outcomes are used for the examination of the assignments.

ARCH 9031 **Research Report**
12 credit points. M Des Sc (Sustainable Des), M H S. Discuss with your program coordinator. **Session:** Semester 1, Semester 2. **Classes:** Independent research. **Assessment:** 10 000 (maximum) word report (90 per cent), research proposal (10 per cent). Each student has an academic supervisor for the research report.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Available to Masters students only.
Content
The report is a substantial piece of research conducted over one semester. It takes the form of report (up to 10,000 words) on an approved subject of your choice. The report is an opportunity to advance your knowledge and skills in a particular area.

Objectives and learning outcomes
The objective of the report is to allow you to develop research and analytic skills by undertaking an in depth study of your own selection. The expected learning outcomes of the report include the ability to:

- Think critically about a problem and develop an appropriate research methodology or analytical approach to address it;
- Identify and access appropriate sources of information, research and literature relevant to the issues;
- Undertake relevant primary and secondary research;
- Present your findings in a way that demonstrates academic and professional competence.

Report Guidelines
A report generally includes:
- A literature review to delineate a problem;
- A statement of research aims or objectives, as well as research questions;
- An explanation of research methods;
- Presentation and analysis of data;
- Discussion of conclusions.

Restrictions
Permission to continue the Report may be subject to a satisfactory research proposal being approved by your supervisor by week 3 of semester.
Submission and Assessment
Reports are due at the end of the first week of exams for the semester in which you are enrolled. The assessment is based solely on the submission of your report. The report is generally marked by one examiner who is not your supervisor.

ARCH 9039 **General Elective 1**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Summer/Winter School. **Session:** Semester 1, Semester 2.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9040 **General Elective 2**
6 credit points. Grad Cert Des Sc (Sustainable Des). **Session:** Semester 1, Semester 2.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9041 **General Elective 3**
4 credit points. Grad Cert Des Sc (Sustainable Des). **Session:** Semester 1, Semester 2.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9042 **General Elective 4**
4 credit points. Grad Cert Des Sc (Sustainable Des). **Session:** Semester 1, Semester 2.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9043 **General Elective 5**
2 credit points. Grad Cert Des Sc (Sustainable Des). **Session:** Semester 2, Semester 1.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9044 **General Elective 6**
2 credit points. Grad Cert Des Sc (Sustainable Des), PG Summer/Winter School. **Session:** Semester 1, Semester 2.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives

This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9045 **Dissertation 1**
12 credit points. M Des Sc (Sustainable Des), M Des Sc (Sustainable Des)(Hons), M **H** S. **Session:** Semester 1, Semester 2. **Classes:** Research. **Prerequisites:** 48 credit points. **Corequisites:** ARCH 9046. **Prohibitions:** May not be counted with ARCH (9031 or 9060), PLAN (9010, 9011, 9018).
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
ARCH 9045 and ARCH 9046 Dissertation 2 are only available to candidates for the masters degree with honours, with permission from an appropriate supervisor. Planning students should take PLAN 9010 and 9011 Planning Dissertations 1 & 2. Students enrol either full time over one semester (ARCH 9045 and 9046) or part time over two semesters (ARCH 9045 then 9046). The units are not assessed separately - a single dissertation is required. The appointment of a supervisor will depend on the topic chosen for the dissertation by the student. Students and their supervisors should complete an Independent Study Approval form and return it to the Student Administration Centre to effect enrolment.
Objectives
The aim of the dissertation is twofold:
- to train the student in how to undertake advanced study. The student should learn how to examine published and unpublished data, survey and experimental results, set objectives, organise a program of work, analyse information, evaluate this in relation to existing knowledge and document the work; and
- to allow the student to pursue an area of interest in greater depth than is possible in coursework or to investigate an area of interest which is not covered in coursework.
Content
The dissertation will normally involve a critical review of published material in a specified subject area, but it may also be an experimental or theoretical investigation, a feasibility study, a case study, a computer program, or other work demonstrating the student's analytical ability.
The dissertation should be less than 25 000 words. The dissertation should contain a literature review, a research methodology, analysis of data, a discussion of results and conclusions. The dissertation will be judged on the extent and quality of the student's work, and in particular on how critical, perceptive and constructive the student has been in assessing his or her own work and that of others.
Form
Three typed A4 sized copies of the dissertation are required to be presented for examination. These may be in either temporary or permanent binding. If in temporary binding they must be able to withstand ordinary handling and postage. The preferred method is "perfect binding" ; spring back, ring back or spiral binding is not permitted. Students are required to submit one copy in permanent binding on acid free paper for the library, including any emendations recommended by the examiners. For more detail see the requirements for the PhD thesis in the Postgraduate Research Studies Handbook.

ARCH 9046 **Dissertation 2**
12 credit points. M Des Sc (Sustainable Des), M Des Sc (Sustainable Des)(Hons), M **H** S. **Session:** Semester 1, Semester 2. **Corequisites:** ARCH 9045.
ARCH 9045 and ARCH 9046 Dissertation 2 are only available to candidates for the masters degree with honours, with permission from an appropriate supervisor. Planning students should take PLAN 9010 and 9011 Planning Dissertations 1 & 2. Students enrol either full time over one semester (ARCH 9045 and 9046) or part time over two semesters (ARCH 9045 then 9046). The units are not assessed separately - a single dissertation is required. The appointment of a supervisor will depend on the topic chosen for the dissertation by the student. Students and their supervisors should complete an Independent Study Approval form and return it to the Student Administration Centre to effect enrolment.
Objectives
The aim of the dissertation is twofold:
- to train the student in how to undertake advanced study. The student should learn how to examine published and unpublished data, survey and experimental results, set objectives, organise a program of work, analyse information, evaluate this in relation to existing knowledge and document the work; and
- to allow the student to pursue an area of interest in greater depth than is possible in coursework or to investigate an area of interest which is not covered in coursework.
Content
The dissertation will normally involve a critical review of published material in a specified subject area, but it may also be an experimental or theoretical investigation, a feasibility study, a case study, a computer program, or other work demonstrating the student's analytical ability.
The dissertation should be less than 25 000 words. The dissertation should contain a literature review, a research methodology, analysis of data, a discussion of results and conclusions. The dissertation will be judged on the extent and quality of the student's work, and in particular on how critical, perceptive and constructive the student has been in assessing his or her own work and that of others.
Form
Three typed A4 sized copies of the dissertation are required to be presented for examination. These may be in either temporary or permanent binding. If in temporary binding they must be able to withstand ordinary handling and postage. The preferred method is "perfect binding" ; spring back, ring back or spiral binding is not permitted. Students are required to submit one copy in permanent binding on acid free paper for the library, including any emendations recommended by the examiners. For more detail see the requirements for the PhD thesis in the Postgraduate Research Studies Handbook.

ARCH 9048 **History of Modern Architecture Theories**
6 credit points. Grad Cert Des Sc (Sustainable Des), Grad Cert H S, PG Coursework Exchange. **Session:** Semester 1. **Classes:** Lectures. **Assessment:** One essay exploring one of the three mentioned expected outcomes.
Objectives
The objectives of this unit are to:
- explore and critically evaluate the theoretical dimension of architectural historiography; and
- understand history as a work of interpretation rather than a series of facts.
Content
This seminar attempts to explore theories of contemporary architectural history. The aim is to re-read and historically contextualise histories of modern architecture. The seminar deals with a set of texts that propose historical interpretations of architecture almost contemporaneous with those texts, recording the shift of meaning in the relationship between architecture and its history from 1950-2000.
Outcomes
Students will be equipped with the following:
- an in depth awareness of diverse approaches to architectural history;
- an understanding of history as a multi-dimensional text; and
- a historical understanding of the differences between text and building.

ARCH 9049 **Contemporary Architectural Theories**
6 credit points. Grad Cert Des Sc (Sustainable Des), Grad Cert H S, PG Coursework Exchange. **Session:** Semester 2. **Classes:** Lectures.
Objectives
The objectives of this unit are:
- to provide the various historical developments that initiated the idea of autonomy in architecture; and
- to explore the ways architects have entertained 'autonomy' in their theories.
Content
This seminar explores the theme of autonomy in contemporary theories of architecture. Since the 18th century and apropos of what is called the French Revolutionary Architects, architecture had the chance, though for a short period of time, to have the pleasure of entertaining its autonomy from the classical wisdom. Though in more than one way architecture soon had to confront the imperatives of the capitalist cycle of production and consumption, nevertheless, architects have attempted to dwell on the notion of autonomy even

by plunging into interdisciplinary issues or critically reflecting on ideas endemic for modern architecture.
Outcomes
Students will gain an in depth knowledge of the following:
- a historical awareness of the themes endemic for modern architectural theories;
- the importance of aesthetic theories for architecture;
- the relationship between history and theory; and
- the genesis of the historical avant-garde in architectural theories.

ARCH 9051 **Urban DesigmThe Impact of Modernisation**
6 credit points. Grad Cert Des Sc (Sustainable Des), Grad Cert H S, PG Coursework Exchange. Dr Peter Armstrong and Mr Barrie Shelton. **Session:** Semester 1. **Classes:** Lectures. **Assessment:** Assessment will take the form of an analysis of the processes of development of a city that experienced substantial growth in the 19th and 20th centuries. The analysis may be in written or graphic form.
Objectives
Representative examples in Europe, America and Asia are examined, revealing the progress from the disintegration and destruction of traditional urban form and space in the initial phases of the Revolution to the multiple approaches to the reconstitution of society and space from the middle of the 19th century onwards.
The underlying causes of the differing philosophies and approaches to the solution of the political, environmental and social problems are examined in the light of the then current differing social and cultural influences.
Content
The unit examines the development of concepts of urban design from the onset of the Industrial Revolution until the late twentieth century. Following the social upheavals and rapid disintegration of urban form and society under the unprecedented growth in technology, production and population, the variety of attempts to come to terms with the demands of the 19th century are traced.
Outcomes
Specific areas of study include Haussmann's restructuring of Paris, Utopian schemes from Fourier and Robert Owen to Le Corbusier and the development of the megalopolitan complexes which characterizes the first World economics.

ARCH 9052 **Graduate Architectural Design 1**
12 credit points. Grad Cert Arch (Arch Des). Prof Tom Heneghan. **Session:** Semester 1, Semester 2. **Classes:** Design studio. **Assessment:** Assessment will be based on drawings and models that will comprehensively explore the design concept and its architectonic implementation for the final project.
NB: Permission of coordinator required unless enrolled in the Graduate Certificate, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&UrbDes).
Objectives
The objectives of this unit are:
- to investigate formal/spatial dimensions of a hybrid building;
- to interpret program as a conceptual paradigm; and
- to investigate the impact of architecture on the fabric of the city.
Content
This design studio attempts to explore design issues involved in a large-scale multi-purpose project in the metropolitan area of Sydney. The studio will focus on the tectonic interpretation of a given program and site and their impact on architectural space.
Outcomes
Students will be equipped with the following:
- the typological and morphological issues concerning the relationship between architecture and the city;
- spatial flux running through public, semi-public and private spaces; and
- spatial and formal visibility of architecture in the city.

ARCH 9053 **Graduate Architectural Design 2**
12 credit points. Grad Cert Arch (Arch Des). Prof Tom Heneghan. **Session:** Semester 2, Semester 1. **Classes:** Design studio. **Prerequisites:** ARCH9052. **Assessment:** Assessment will vary based on the chosen context (rural/ oceanic) and the design objectives shared with the urban design tutor.
NB: Permission of coordinator required unless enrolled in the Graduate Certificate, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&Urb Des).
Objectives
The objectives of this unit are:
- to explore strategies to counter the periphery of cities;
- to address the primary of the formation of spatial rather than the formation of objects in the 'edge of a city'; and
- to provide a vision for a city's future.
Content
This design studio is conceived in conjunction with design studios taught in the Graduate Program of Urban Design. The aim is to explore the idea of "Edge of a City." The studio will examine strategies focusing on the boundary between the urban and rural, or the urban and oceanic.
Outcomes
Students will be equipped with the following:
- change in the scope of design as the scale of projects moves towards urban issues;
- the intrinsic relation bonding the edge of a city to its organisations;
- strategies to synthesise urban life and urban form based on a given context; and
- the essentiality of psychological space, program, movement, light quality, and tactility in the strategies presented for a city edge.

ARCH 9055 **Housing Cultural Stud**
***** No info available for 2006.** ***

ARCH 9056 **Housing Policy and Assista**
***** No info available for 2006.** ***

ARCH 9057 **Housing & Urban & Regional Developm**
***** No info available for 2006.** ***

ARCH 9058 **General Elective 7**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Summer/Winter School. **Session:** Semester 1, Semester 2.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9059 **General Elective 8**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Summer/Winter School. **Session:** Semester 2, Semester 1.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
Objectives
This elective allows an individual to pursue an agreed topic with a member of academic staff or for a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment.
Description
For individual study arrangements - this is an opportunity to develop independent study skills. The unit is undertaken with an agreement between the student and a supervisor on a topic related to the supervisor's expertise. The student will meet with the supervisor regularly to discuss progress.
For group study arrangements - the unit of study is available to engage in a topic that is organised by a member of academic staff. This allows a member of staff to teach a topic of special interest or for a visiting academic to teach a subject related to their specialty. Students will participate in lectures, tutorials, or other activities as needed to pursue the elective topic.
Outcomes:
Students will develop an understanding of a special topic through reports, projects, and/or tutorial exercises.

ARCH 9060 **Urban Design Report**
12 credit points. M U R P, M Urb Des. Barrie Shelton. **Session:** Semester 1, Semester 2. **Classes:** Independent investigation. **Prerequisites:** ARCH 9001. **Prohibitions:** May not be counted with ARCH (9031, 9045 or 9046) or PLAN (9010, 9011 or 9018). **Assessment:** Urban design report approx 10,000 words (100%).
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. This unit is for Masters students in an Urban Design stream only.
Content
The Urban Design Report is a substantial project involving research conducted over one semester. It will usually take the form of an illustrated report (up to 10,000 words) on an approved urban design

subject of the student's choice. The subject may be of a practical bent (eg review or preparation of an urban design project) or more theoretical (eg review of a conceptual viewpoint), or it may occupy the middle ground (eg exploration of a contemporary issue or review/testing of a method). If of a more practical nature, its theoretical underpinning should be explicit. If more theoretical, it should refer to its practical implications.
The report is an opportunity to advance knowledge and skills in a particular area of urban design and so develop a "professional edge"

Aim, objectives and learning outcomes
The aim of the Report is to enhance abilities and knowledge essential to the practice of urban design.
These include the abilities:
- to define and address a practical or theoretical urban design problem;
- to conduct such a project in an acceptable investigatory manner;
- to think critically about the subject;
- to identify, access and use appropriate and up-to-date information sources, including relevant theory and methods; and
- to present the report, including appropriate illustrations, in a manner that shows both academic and professional competence.
The report must demonstrate the above.

Restrictions>
Permission to continue the Urban Design Report is subject to the approval of a satisfactory research proposal by week 3 of the semester in which the student is enrolled.

Submission and assessment
The Urban Design report is to be submitted by the Friday of the penultimate week of the examinations period for the semester in which the student is enrolled. It will be assessed by two examiners, of which one is not the supervisor.

ARCH 9061 **East Asian Arch & Urbanism (Classic**
***** No info available for 2006.** ***

ARCH 9062 **Urban Design - Ideas and Methods**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Barrie Shelton. **Session:** Semester 1. **AssumedKnowledge:** Some prior study of architectural, urban or planning history. **Prohibitions:** May not be counted with ARCH 9022. **Assessment:** Minor assignment, class presentation and major assignment (report).
During the first half of the Twentieth Century much of the influential literature on urban design / city planning was geared to the generation of new types of urban structure and building form for the construction of new cities and replacement of worn-out fabric in existing ones. Later decades (particularly the 1960's andl970's) were more circumspect with the most influential literature exploring the existing structure, form and character of cities as a basis for new design. In the process, the metaphor for the city changed from that of "machine" (to be "engineered") to "text" (to be "read"). Hence, terms such as "language", "legibility", and "meaning" came to the fore in urban design. At the same time there was a drift in sensibility - from the pursuit of "universal" to "place" based solutions. This change generated a spate of urban design primers in the 'Eighties which have in turn been challenged by more recent viewpoints. These viewpoints have drawn invariably upon other disciplines for their inspiration, resulting in notions such as "fractal cities" and "quantum city". The unit reviews the content of the period's key works with an emphasis on the methods promoted (or implied) for use in examining city form and generating design concepts.

Aims
Students are expected to develop a critical understanding of the key ideas and theories of the last century that have contributed to the designer's understanding of urban spatial structure and built form. They are also expected to gain a working knowledge of associated methods for investigating and interpreting urban form, and generating design solutions.

Objectives
Students will demonstrate an understanding of the material by way of illustrated reports, and class presentations and discussions that:
-summarise the ideas and theories, and
-explore their origins, influence and application.

Generic attributes developed in this unit
- To be aware of knowledge from other disciplines and reasoning in design practice
- To be able to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding
- To have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them
- To be open to new ideas, methods and ways of thinking

Contribution of unit of study to its program
Core theory unit designed primarily to inform the Urban Design Studio units.

ARCH 9063 **Urban Morphology**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Barrie Shelton. **Session:** Semester 2. **AssumedKnowledge:** Some prior study of architectural, urban or planning history. **Prohibitions:** May not be counted with ARCH 9021. **Assessment:** Minor assignment, class presentation and major assignment (report).
The unit explores the evolution of urban form with an emphasis upon built form typologies. Most designed components of our cities conform in their general characteristics to identifiable typologies. These reflect both the cultural values and the technological, economic and social circumstances of their times. They have been laid down, modified, overlaid and juxtaposed over particular landforms to result in usually complex and often distinct local patterns and forms (i.e. urban morphologies). The ability to recognise, investigate and respond to these is at the heart of urban design. The development of an historical knowledge, and of sensibilities and skills in the recording and interpretation of urban pattern and form for design purposes is the unit's primary aim. As such it examines the characteristics and dimensions of major urban typologies (especially those still visible in the Australian city) their origins and interrelationships, and issues surrounding their interpretation and treatment in the contemporary city.

Aims
The overriding aim of this unit is to nurture an appreciation of urban morphological history. It is also to develop abilities concerned with the recognition, investigation and explanation of urban forms in terms of their physical characteristics and the circumstances that shaped them: social, economic, technological, cultural, etc. Further, it is to develop an awareness of current issues associated with these forms and the ability to make judgements about them in contemporary urban design - retention, modification, transformation or obliteration.

Objectives
On completion of this unit, students should be able to:
- recognise major structures and patterns, and key building, spatial and urban types that make up our cities - in effect to make a more informed 'reading' of the urban landscape;
- record and describe them graphically and in words;
- investigate and explain their origins; and
- discuss informatively their place in urban change and contemporary urban design.

Generic attributes developed in this unit
- the ability to make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate understanding;
- the ability to recognise the extent of information needed and to locate available information efficiently and effectively;
- the ability to think rigorously and independently.

Contribution of unit of study to its program
Core theory unit designed primarily to inform the Urban Design Studio units.

ARCH 9064 **East Asian Arch & Urbanism (Modern)**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Barrie Shelton. **Session:** Semester 1. **Prohibitions:** ARCH9054. **Assessment:** Minor assignment, class presentation and major assignment (report).
NB: This unit is offered in even numbered years only.
The aim of this unit is to provide an introduction to architecture and urbanism in East Asia during the modern era - with an emphasis upon modern Japan from the Meiji period to the present. It explores particularly the relationship between architecture and the city during this period; and the relationship between built form and cultural traditions, design responses to outside influences, and similarities and differences between countries. Work of selected architects is highlighted. An important aim of the unit is to enable participants to be more critical of their own design values and viewpoints as shaped by their own cultures.

On successful completion of the program, students will have extended their understanding of the history and theory of architecture and urbanism in the East Asian cultural realm - by way of critical assignments, class discussions and presentations. They will have demonstrated an understanding:
- of built forms in the context of regional philosophical and cultural foundations;
- of the ongoing influence of design traditions in contemporary built form;
- of major themes in the history of architecture and urbanism in modern East Asia, particularly Japan.

ARCH 9065 **Interpretations of Cultural Environments**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Richard Lamb. **Session:** Semester 1. **Classes:** Lectures & seminars. **Prohibitions:** ARCH9003. **Assessment:** 2 Essays (40% each), Seminar presentation (20%).
Objectives
The unit will investigate the theoretical basis of the assessment and interpretation of cultural significance and relate it to its application in conservation practice. It will lead to closely considering the changing perceptions of interpretation of cultural significance and the features and operations of current methods of assessment, both local and global. The unit will also introduce the cultural landscape as an emerging ideology in conservation and present heritage assessment and interpretation from an interdisciplinary standpoint.

Content
The unit is broken down into three themes. The historic theme, considers the relationship between history, historic evidence, artefacts and the conservation of the cultural environment, the nature of historic inquiry in various disciplines in conservation practice and how historians and conservationists view conservation and how they work in the field. The interpretation of significance theme, considers how the aims of conservation and the methods employed in assessment influence the determination of conservation significance, by examining various kinds of approaches, such as the criterion-based approach used in the NSW State Heritage Inventory, Heritage Assessment section of the Heritage Manual and the National Trust Register and the "criteria" for entry on the Register of the National Estate. The place theme, examines the interpretation of places in the western tradition as distinct from objects, the interpretation of sites and curtilages, the interpretation of landscapes, and the emerging ideology of the cultural landscape. The place theme uses these examinations as examples of a more holistic way of viewing the cultural environment.

Outcomes
By the end of the unit it is expected that students will demonstrate knowledge of the historic base of heritage conservation, exhibit skills at a beginning level in heritage assessments and the interpretation of heritage values, understand and demonstrate familiarity with contemporary interpretation theory and show a capacity to apply the above to the development of methods of heritage assessment and interpretation.

ARCH 9066 **Transformations of Cultural Environments**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Richard Lamb. **Session:** S2 Intensive. **Classes:** Lectures and seminars. **Prohibitions:** May not be counted with ARCH 9007.
Objectives
This unit will examine the rapid change in traditional settlements, cultural values and the relation of tradition to modernisation; analyse the rehabilitation of historic areas; assess the impacts of cultural exchanges and visitation in historic urban places; and facilitate the incorporation of cultural factors in planning urban developments.
Content
The unit covers four main areas: cultural development (cultural identity and continuity in urban places and their relationship to heritage conservation); cultural transformation (trends in the cross-cultural occupation, use and rehabilitation of places in historic settlements; change in habitats and the resilience of local communities in urban places); dual urban structures (Asian and European morphologies in colonial and post-colonial settlements); cultural tourism (cultural heritage, tourism and cultural exchange, visitation trends and cultural rush; carrying capacity of historic places and resources).
Outcomes
Students will have the ability to identify changes in traditional settlements and critical aspects of cultural continuity portrayed in the use and fabric of traditional places; identify the social exchanges and impacts observed in such places when subject to intense visitation and conflict; and define strategies for rehabilitation of traditional settlements.
Students are assessed on their demonstrated ability to present seminars on the identification of cultural continuity in traditional settlements and develop programs to foster the development of strategies for rehabilitation of places subject to tourism pressure and development conflicts.

ARCH 9067 **Professional Placement**
6 credit points. Grad Dip Herit Cons. Trevor Howells. **Session:** Semester 2. **Classes:** Work placement. **Prohibitions:** May not be counted with ARCH 9014.. **Assessment:** Report.
NB: Permission required for enrolment unless enrolled in the Graduate Diploma or Master of Heritage Conservation program.
Aims of the placement program:
- To provide a direct link between the academic core of the course and the disciplines and methods of practice
- To enable candidates to experience aspects of conservation practice and provide the opportunity for them to work in areas of the field outside their specific expertise
- To enable candidates to observe, analyse and comment on the interaction between theoretical and practical issues of conservation as it is practiced.
- To establish connections between conservation practice and the development of relevant research programs.
Introduction
The professional placement program is intended to provide the opportunity for students to work in various situations in the conservation area. A secondary intention is that students use the opportunities of placement to broaden their own experience beyond the limitations of their chosen discipline. The School undertakes to assist candidates in finding suitable professional placement. However, students may, with the approval of the unit director, negotiate with prospective hosts on a preliminary basis. The placement arrangement will be confirmed between the host organisation and the unit director before placement begins by means of a standard agreement and pro forma brief. The host organisation will nominate a supervisor for the student for the placement period and the unit director an academic supervisor and assessor.
Placement options
Placement may occur with private practitioners, firms, local or state government authorities or other conservation organisations such as the National Trust or Historic Houses Trust. Students who work in organisations with internal structure which allows this, may be placed in departments other than their normal work situation. Students with extensive experience in the field may negotiate self-placement or other placement options with the unit director. Students are not normally paid by their hosts for placement. However, hosts may choose to pay students, in which case the host organisation takes on the usual employer's responsibility for the student. Self-employed students may wish to negotiate placement options that do not disadvantage them financially during placement.
Credit standing and exemption
Credit is not normally given. However, some candidates may be able to demonstrate to the unit coordinator that they have obtained sufficient suitable placement experience and seek credit standing on this course. This requires suitable documentation. Normally, exemption would be granted, without credit. Students would be expected to choose other options in the program to make up the credit points necessary to complete the course.
Length of placement
It is anticipated that all candidates will complete their professional placement requirements during their candidature. Professional placement will extend 4 weeks' full time engagement, preferably full time. The placement could be with one or more organisations.
Outcomes
At the end of the placement each student will:
- Demonstrate that they have completed a placement program of work
- Present a placement report.
- Analyse their experiences of conservation practices and compare these to the theoretical content of the courses they have completed
- Suggest appropriate research directions for conservation so as to improve the complementarity of theory to conservation practice.
Assessment
Assessment is the responsibility of the academic staff of the department. The host supervisor will be invited to verbally comment on the progress and achievements of the placement and sign the pro forma agreement, signifying that the organisation is satisfied that the placement has been completed. The host will receive feed-back

on the placement from the academic supervisor, following the assessment of the placement report.
Assessment Report
At the end of the placement period the student will submit a placement report. The aims and outcomes of the program should form the basis of this report. The report is not intended to be solely a report of work undertaken during placement, although it may be necessary to briefly describe this as the basis of the analytical part of the report. The output of the work program of placement, if it was in written form, can be appended to the Placement Report. The report should:
- Report on the nature of conservation work undertaken by the host
- Briefly describe the placement work program and student's role in this
- Comment on the value of placement to the student's professional development
- Describe the issues which arise in this work which are related to the so far completed coursework This could be on a case by case, issue by issue, or course by course basis.
- Analyse the degree to which the coursework in the Master of Heritage Conservation program was responsive to the needs of the host organisation in carrying out its conservation work
- Evaluate research directions which the program could take to increase its responsiveness to the needs of practice and practitioners.
The report will be attested to by the host prior to submission and will be assessed academically according to the normal expectations for academic report writing. The length of the text of the report should not exceed 3,000 words. Illustrations and appendices can be in addition to this limit.

ARCH 9068 **Trad Bldg and Conservation of Materials**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Trevor Howells. **Session:** Semester 2. **Classes:** Lectures and site visits. **Prohibitions:** May not be counted with ARCH 9015.. **Assessment:** Assignment (50 %) and seminar: presentation (25%), report (25%).
NB: This unit of study is offered in even numbered years only.
Objectives
This unit gives students the opportunity to acquire a thorough understanding and appreciation of traditional building methods and to develop an understanding and knowledge of current and appropriate methods of materials conservation.
Content
The unit will consist of the following: traditional methods of construction (stone and brick masonry, vernacular and primitive building methods, timber construction, use of glass, glazed and unglazed tiles, cast iron, lead copper, corrugated iron); and the conservation of materials (stone, brick, pisé, timber, terracotta, glazed ceramic tiles, cast and corrugated iron, lead, copper and pressed metal).
Outcomes
At the conclusion of the unit the student will successfully demonstrate (1) an understanding of traditional methods of building materials and their attendant techniques, (2) an appreciation of the implications of the employment of traditional crafts in the current building environment, and (3) knowledge of appropriate methods of repair and conservation of traditional materials.
The intended outcomes, achieved through inquiry, individual and group study and research, will be demonstrated by each student upon the successful completion of the set assignments. The unit surveys the knowledge in the field and focuses on the major forms of traditional construction and materials. The assignment has been constructed to allow the student to demonstrate a detailed understanding of a selected material and the methods of its traditional use. Assessment criteria based on unit outcomes are used for the examination of the assignment.

ARCH 9069 **Conservation of Finishes** & **Mod Servi**
*** **No info available for 2006.** ***

ARCH 9070 **Aesthetic Assessment of Herit Landsca**
***** No info available for 2006.** ***

ARCH 9072 **Graduate Architecural Design 3**
12 credit points. Grad Cert Arch (Arch Des). Prof Tom Heneghan. **Session:** Semester 1, Semester 2. **Prerequisites:** ARCH 9053. **Assessment:** Assessment will be based on drawings and models that will comprehensively explore the design concept and its architectonic implementation for the final project.
NB: Permission of coordinator required unless enrolled in the Graduate Certificate, Diploma or Master in Architecture (Architectural Design) or MArch(Arch&UrbDes).
Objectives
The objectives of this unit are:
- to investigate formal/spatial dimensions of a hybrid building;
- to interpret program as a conceptual paradigm; and
- to investigate the impact of architecture on the fabric of the city.
Content
This design studio attempts to explore design issues involved in a large-scale multi-purpose project in the metropolitan area of Sydney. The studio will focus on the tectonic interpretation of a given program and site and their impact on architectural space.
Outcomes
Students will be equipped with the following:
- the typological and morphological issues concerning the relationship between architecture and the city;
- spatial flux running through public, semi-public and private spaces; and
- spatial and formal visibility of architecture in the city.

ARCH 9073 **Architecture Globalisation Urbanisation**
6 credit points. Grad Cert Des Sc (Sustainable Des). A/Prof Anna Rubbo & Dr Duanfang Lu. **Session:** Semester 2. **Assessment:** The unit is assessed by means of one 3000 word essay (60%), completing weekly readings and class presentation (25%), and participation in class mini conference (15%).
Aims
This unit aims to provide a basis for better understanding the processes of globalisation in relation to architecture and urbanisation and its potential to affect people's lives. It will seek to enable a more comprehensive global perspective for design professionals, of value at home or abroad.

Increasingly architects from global metropolitan centres engage in work or competitions from around the world. Such activity often tends to be associated with major projects in developing countries. This unit will critically examine the phenomenon and processes of globalisation, and look at the ways in which architecture operates in a globalising world. In order to address these issues we will hear from design practices working in emerging global economies, and the ways in which cultural identity is mediated through the processes of globalisation. The concepts of critical regionalism, localisation, post colonialism, and the divided city will be explored in the context of key texts, as well as through the experience of practice. Drawing on diverse disciplinary perspectives, the unit will provide an overview of various theoretical frameworks that have examined the interrelationship between space, society and power in a global context. By introducing topics including cultural habitats, urbanism and urbanisation, tourism and city marketing, the unit aims to enhance your capability to reflect on the values embedded in design and develop your own research agenda on architecture, globalisation and urbanisation.

Global trends will also be looked at in relation to the 2000 UN Millennium Declaration adopted by the world's leaders, and the goals established to reduce poverty, improve health and promote peace human rights and environmental sustainability. Particular attention will be paid to improving the lives of slum dwellers and housing poor people. Attention will also be given to the roles of design and planning professionals, NGOs, community based organizations, local government and the international community.

Objectives
On successful completion of this unit students will have demonstrated:
- Awareness and understanding of the processes of globalisation and urbanisation, and the impact on cities;
- Awareness and understanding of key concepts such as critical regionalism, post colonialism, and the divided city;
- An awareness of architectural practice in a globalised world through case studies;
- An enhanced ability to evaluate the consequences of design for human experiences and activities in different societies;
- An understanding of multidisciplinary analytical tools related to the study of the built environment;
- An increased confidence in working with different design situations.

Generic attributes developed in this UoS
- Research and Inquiry. Students will develop critical and inquisitive thinking and multidisciplinary analytical skills through the examples of architectural research they will present;
- Ethical, Social and Professional Understanding. Students will develop an appreciation of respect for diversity and a perspective that acknowledges local, national, and international concerns through case studies derived from different parts of the world from socio-cultural political points of view;

- Communication. Students will exercise oral, drawing and writing skills, and use appropriate means to present work;
- Personal and Intellectual Autonomy. Individual submissions promote independent judgement as to the appropriateness and significance of selected topics.

Contribution of UoS to program
Core for the Architectural History, Theory & Criticism program, Optional unit for the Architectural Design and Urban Design programs

Student effort expected
Contact hours: 2 hrs/wk
Class preparation: 2.5 hrs/wk
Assessment preparation: 19 hrs/semester

DESA 9001 **Graduate Art Studio (Graphic Design)**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** 3hrs per week. Practical studio classes, slide lectures. **Assessment:** Attendance, portfolio of studio exercises, research and final project using digital media and presented in either digital or print form.
NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. A materials fee applies to some Art Workshops units.
The unit offers a systematic approach to understanding and utilising the processes of designing for visual communications. A series of studio lectures and practical sessions provides students with an introduction to design history and basic skills for applying the principles of design. The unit addresses the elements of design, page composition and use of typography and image. As research, students will be required to apply weekly studio exercises created with hand-generated media to a specific contemporary design context using digital software.

Objectives
The unit objective is for students to develop an understanding of the basic principles and processes of visual communication which will provide a basis for digital media design. These will be applied to a range of design contexts using different graphic techniques and media.

Outcomes
The outcomes involve the application of design principles to a range of design situations using hand-generated media. Students apply these exercises to a finished print outcome, using digital processes. The final project submission will demonstrate an understanding of design purpose, suitability and style in a contemporary context. Students will be asked to evaluate design effectiveness and address the use of new technologies in a specified area of visual communication in a digital media presentation.

DESA 9002 **Graduate Art Studio (Graphic Design 2)**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Ms Jan Fieldsend. **Session:** Semester 1. **Classes:** twelve studio sessions (3 hours each). **Prerequisites:** DESA 9001. **Assessment:** Attendance, completion of three studio projects, each addressing the application and integration of type and image in a specified design context.
NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. A materials fee applies to some Art Workshops units.
Objectives
Students will build on the knowledge and skills gained from completion of Graphic Design I.
On completion of Graphic Design 2, students will be able to apply the elements and principles of visual communication in a design context. These include typography, image generation and manipulation, layout and the use of colour and other graphic elements. Students will apply design process in the sending of specific messages to defined audiences to prompt actions. They will be able to demonstrate the application of typefaces and images for print and screen design discuss and evaluate the effectiveness of contemporary design practice and its relationship to design history.
Content
The course offers a systematic approach to understanding and applying design principles in the communication of specified design objectives. There are three studio projects - each project will include a lecture series, a written brief, and the discussion of research methodologies, project specifications and presentation requirements. Emphasis is placed on the juxtaposition of type and manipulated image in different contexts. Students will learn to address issues of suitability, legibility and readability in the dynamic application of type for both print and screen. Students will be required to generate original images based on individual visual research using photography, illustration and other methods. It is anticipated that students will have access to, and be familiar with, digital graphic design programs in order to complete the projects.
Outcomes
The outcomes include presentation of three projects, each addressing an understanding of design purpose, suitability and style in a contemporary context. The first project will be designing for print media, the second is screen-based and the third is self-selected, focusing on students' specific area of research. Students will be able to evaluate design effectiveness and address the use of new technologies in visual communication.

DESA 9003 **Graduate Art Studio (Photography)**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Ms Jan Fieldsend. **Session:** Semester 1, Semester 2. **Classes:** Practical studio classes, slide lectures, class discussions, gallery visits, one to one tutor crit sessions. **Assessment:** Attendance/darkroom practice 15%, test on darkroom practice and techniques 20%, presentation of ideas that reflects upon the relationship of photography to your coursework programme 15%,creative ideas/images 20%, technical skills 20%, presentation of finished work 10%.
NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. A materials fee applies to some Art Workshops units.
Aims
This practical unit aims to give students an understanding of how photography functions as a contemporary visual medium, including it's historical development and it's different applications in such areas as visual arts, architecture, mass media and digital media. Students will gain knowledge of the principles and practice of camera operations and the production of high quality black and white negatives and prints in small studio style classes. Students will begin to think about ways in which the photographs produced in this unit of study can be used in or relate to their coursework programme. For example how darkroom based photography relates to digital media or exploring the connections between architecture and photography. This module covers the use of 35mm. SLR camera, image composition, use of lighting, film developing, printing photographs and experimental techniques. Photographs of a wide range of subjects such as still lives, land and city scapes and portraits will be produced. Practical work includes darkroom and studio work and gallery visits.
Objectives
On the successful completion of this unit you will be able to;
i) demonstrate your knowledge of camera operations, film and print developing through darkroom practice and the production of a portfolio of black and white prints.
ii) use an understanding of photography practice and theory to inform decision making in your creative process as well as entering into thoughtful debate.
iii) reflect on your art practice through class and tutor crit sessions and from this point realistically evaluate your own work,
iv) gain an awareness of how photography theory and practice relates your coursework.
Generic Skills
this unit of study you will;
i) have a body of knowledge in the field of photography,
ii) be able to exercise critical judgement, realistic self evaluation and imaginative thinking as outlined in the aims,
iii) be able to apply technical and conceptual skills as appropriate to photographic practice and furthermore develop your ideas about how these skills may be applied to new situations such as in your coursework programme.
iv) develop the ability to plan and achieve a goal through a self directed final project.

DESC 9001 **Air-Conditioning Des**
***** No info available for 2006.** ***

DESC 9009 **Audio Internship/Audio Project**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 2. **Classes:** Studio work under supervision of an experienced practitioner. **Assessment:** Report (60%) and practical demonstration (40%).
NB: Department permission required for enrolment.
Objectives
The objectives of this unit are to give an appreciation of the approaches that practitioners take in determining what sound they want and how they obtain it in audio recording, PA and broadcasting.
Content
The unit provides experience in the audio profession where theory and concepts learned in the program can be applied in real-world time frames and budgets using the available equipment.
Outcomes

On completion of this unit students will be expected to be able to apply the 'tricks' of the profession to a variety of situations in order to obtain high quality sound and other results required in the industry. They should also be able to deal with clients, musicians, etc. on a professional basis.

DESC 9011 **Audio Production**
6 credit points. Grad Cert Des Sc (Audio Des), PG Coursework Exchange. Mr Michael Bates. **Session:** Semester 1. **Classes:** Lectures and studio work. **Assessment:** A project and accompanying report.
NB: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.
The practice of audio production is a form of constructing discourse, with its own poetics ie its own grammar, its own conceptual shorthand, its own languages, and a multiplicity of genre, structures and forms that it sources and references albeit often tacitly or transparently.
This unit will look at the current tools and techniques, as well as the underlying strategies, processes and inherent philosophies involved in the various audio production modes. It will compare and contrast broadcast and other media production methods and ideologies including music recording, radio production, sound for picture, and new media, with reference to live sound reinforcement and location recording practices.
The unit will examine various sound design philosophies, conventional and 'non-conventional' production models, different definitions by and of producers and provide by way of context a brief history of the impact on production practice by technological change. The producer's role in the process of the creation of meaning will be examined in cultural as well as technical contexts of compositional practices.
The unit will encourage debate about and a demystification of current production processes and will aim at developing and extending production techniques towards an individual aesthetic.

Objectives
Students will achieve a basic familiarity and proficiency with:
1. mixing consoles;
2. the fundamentals of multi track recording;
3. digital Editing;
4. demonstrate an ablilty to communicate their ideas,and articulate the reasons for their choices of production methods; and
5. work successfully within a group dynamic.

Assessment
Students are expected to work in groups to produce an audio project in one or more of the following areas: drama, feature, documentary, sound composition, or music recording.
They will be expected to:
1. Participate in the workshops.
2. Complete any class exercises/constructions requested by their due dates.
3. Students will be given additional readings to discuss in classes.
4. Students will submit a script, composition or otherwise detailed proposal for recording and postproduction with detailed raison d'aitre of production values .
6. Produce and present on Audio CD a completed project, including documentation, evidence of background research, a commentary on the production and production outcomes, track sheets, mixing notes. It may be an adaptation or original work. Themes will be discussed in class.

DESC 9014 **Building Construction Technology**
6 credit points. Grad Cert Des Sc (Sustainable Des), M E S, PG Coursework Exchange. A/Prof Warren Julian. **Session:** Semester 1. **Classes:** Lectures. **Assessment:** 4 assignments (20%, 30%, 25%, and 25%).
Objectives
- To provide students with a knowledge of the environment in which professional engineers operate in the building industry;
- to introduce an understanding of the design and construction of building elements, the fundamentals of heat transfer and effects of external conditions on indoor comfort, and the fundamentals of vertical transportation within buildings;
- to explore the requirements of the Building Code of Australia (BCA); and
- to discuss influences on the indoor environment such as services coordination and vibration.
Content
Students are provided with an appreciation of building construction technology relevant to the work of the building services engineer. The course emphasises aspects of the built environment that are of concern to the building services engineer, particularly in the early design stages.
Outcomes
It is expected that students will acquire an understanding of requirements of the BCA and statutory regulations; a knowledge of principles for the design and construction of building structural elements; space requirements for the integration of services into the building fabric; and heat transfer through the building skin including solar effects on buildings.
Assignments will test students, understanding of BCA requirements, processes of structural system selection, interaction between the external and internal environments, and principles of vertical transportation.

DESC 9015 **Building Energy Analysis**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Bruce Forwood. **Session:** S2 Intensive. **Classes:** Lectures, seminars. **Assessment:** 3 assignments.
Objectives
To acquaint students with the range of analytical and design tools available for low energy building design; to provide the opportunity for students to become proficient at using some of these tools.
Content
Among the techniques and tools explored are: climate data analysis; graphical and model techniques for solar studies; steady state and dynamic heat flow analysis; simplified methods for sizing passive solar elements; computer models of thermal performance; modelling ventilation; estimating energy consumption. Emphasis is given to tools which assist the design of the building fabric rather than building systems.
Outcomes
At the end of the unit it is expected that students will:
- be aware of the importance of quantitative analysis in the design of low energy buildings;
- have an understanding of the theoretical basis of a range of analytical techniques;
- be familiar with the range of techniques available for building energy analysis;
- be able to apply many of these to design analysis;
- be familiar with the range of thermal analysis computer software available; and
- be able to use a software package to analyse the thermal performance of a typical small scale building.
All of the assignments are designed to provide students with hands-on experience of each of the analysis tools.

DESC 9019 **3D Modelling and Photorealism**
6 credit points. Grad Cert Des Sc (Des Comp), Grad Cert Des Sc (Dig Media), PG Coursework Exchange. Dr Kirsty Beilharz. **Session:** Semester 1, Semester 2. **Classes:** Lectures supplemented by tutorials. **Corequisites:** Corequisite or Prerequisite: DESC 9139 or DESC 9174. **Assessment:** Assessment is based on assignments that are intended to develop and demonstrate understanding of 3D modelling and photo-rendering.
NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video streams streams. Enrolment numbers are limited by teaching resources.
Objectives
- An introduction to graphics technologies and photo-rendering;
- Understand specifications of 3D geometric entities within a sophisticated modelling package;
- Assign colour and texture information to geometric entities;
- Generate complex photorealistic images;
- Develop skills processing images;
- Develop an awareness of future developments in modelling and visualization.

Description
This unit explores advanced systems of computer graphics in the context of design. A broad range of graphics technologies are considered with emphasis on 3D modelling and photorealism. This Unit of Study develops conceptual understanding and practical application of these techniques using commercial modelling and rendering packages.

Outcomes
- Conversance with 3D modelling and photo-rendering terminology.
- The ability to produce sophisticated photorealistic images using advanced visualisation systems.
Textbooks
Foley, J., van Dam, A., Feiner, S. and Hughes, J. (1995). Computer Graphics: Principles and Practice, (2nd Edition), Addison-Wesley, Reading, Massachusetts;
Watt, A. (1989) Fundamentals of Three-Dimensional Computer Graphics, Addison-Wesley, Reading, Massachusetts.

DESC 9040 **Electrical Services**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. A/Prof Warren Julian. **Session:** SI Intensive. **Classes:** Lectures. Assessment: 4 assignments (25 per cent each).
NB: This unit of study may be offered in alternate years.
Objectives
- To present basic principles of electricity and magnetism as necessary for an understanding of the application of electrical services in buildings;
- to introduce students to the applications of these principles to electrical distribution in buildings;
- to outline the principles of electric motors, transformers and switchboard design; and
- to introduce elementary principles of illumination and daylighting.
Content
An understanding of electrical services is an essential requirement for building services practitioners involved in the design professions and the construction and building management industries. The course is designed to provide an introduction to these services for recent graduates or diplomates in engineering, architecture or science and for people involved at a professional level in the building industry who do not possess a background in electrical engineering.
Outcomes
It is expected that students will gain basic knowledge of components of the electricity generating and distribution network external to and within buildings; the types and use of cables and enclosures in and around buildings; methods of assessment of loads and cable sizes; principles of operation of transformers and motors and the design of switchboards and earthing, emergency evacuation lighting and early warning information systems; an introduction to the fundamental principles of lighting design for interior and exterior applications; and a basic understanding of data transmission via copper wire and optical fibre.
Assignments will test acquired skills in electrical load estimation and the design of simple electrical distribution and artificial and day lighting systems.

DESC 9042 **Electrics Electronics** & **Electroacoustics**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 1. **Classes:** Modified lectures and laboratory tutorials. Assessment: Written assignments (50%) and practical tests (50%).
Objectives
- To give an understanding of electronic devices and terms, measurement units used in audio electronics, and basic DC and AC circuits;
- to demonstrate simple audio circuit characteristics (e.g. amplifier/filter characteristics), and simple construction/maintenance techniques;
- to give practice at reading schematics and circuit diagrams and using audio test equipment; and
- to examine safety aspects of using electrical/electronic equipment.
Content
This unit will give students an understanding of electronics and electronic terms, and experience at using test equipment. Students will learn basic electric theory, electronic components and devices, measurement units, interpretation of schematics and circuit diagrams, use of audio test equipment, basic circuit construction and maintenance, fault-finding and safety issues.
Outcomes
By the end of the unit students will be expected to:
- be able to recognise electronic components as used in audio electronic circuits, and state their function;
- use appropriate units when discussing audio electronic concepts;
- understand the effect of frequency on various electronic devices and circuits;
- given a schematic or circuit diagram of a circuit, be able to explain its general operation, and pinpoint such elements as inputs, outputs, power supply and gain elements;
- be able to use appropriate test equipment correctly to find a simple fault in a circuit, and to analyse sound level and frequency distribution of a sound in a given space;
- be able to construct and test a simple circuit, given a circuit diagram, and to explain and verify the circuits operation; and
- be able to state important precautions to be taken when operating or handling audio components, and safety considerations when dealing with electrical systems.
Students will demonstrate their understanding of the theoretical component of the unit by performance in the written test, and will be required to demonstrate competence in using test equipment.

DESC 9047 **Strategic Facility Management**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr. David Leifer. **Session:** SI Intensive. **Classes:** Lectures. Assessment: 2 assignments 50% each.
This Unit is an introduction to Facility Management: It is a management discipline, and as such relies on the central topics of business finance, information systems, and of course management per se. The teaching proceeds from an examination of the purpose of organizations and how the facility assists (or hinders) it achieving its goals. Indeed, explaining this understanding is the subject of the first Coursework assignment.
Attendees are introduced to research methods, in that they will be required to manipulate modern sources of information to fulfil the assignment. In this first half of the course we will scrutinize what we mean by 'facilities', and look at the capital expenditures (CAPEX) and operating expenditures (OPEX) that the provision and operation of facilities involve. We shall consider the procedures necessary to obtain this information, and how to identify those areas that have 'elasticity' and are therefore amenable to management initiatives.
In the second half of the unit we will consider the overlap between the Human Resource and the Facility, and the implications for the facility manager. In this regard, Occupational Health and Safety issues are germane.
The second coursework assignment will require attendees to formulate a strategic facility plan as an extension of the work done for the first.

This Unit directly corresponds with AFM Competencies:
AFM 1: Manage Facilities, Improve Facility Performance; Manage Risk.
AFM 2: Develop Strategic Facility Response; Manage Facility Portfolio
AFM 3: Develop Strategic Facility Response;

This Unit Indirectly Corresponds with AFM Competencies:
AFM 1: Manage Delivery of Services; Manage Projects.
AFM 2: Manage Finance.
AFM 3: Change Management

DESC 9048 **Operational Facility Management**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr. David Leifer. **Session:** S2 Intensive. **Classes:** Lectures. Assessment: Two assignments of 50% each.
This unit reviews and develops the learning achieved in DESC 9047 Strategic Facility Management.
The first part of the unit looks at external constraints on Corporate priorities. This includes the theoretical issues influencing why an organisation locates where it does. It considers the legislative planning framework that might constrain free choice.
In the second part of the unit consideration is given to involving the workforce in the facilities management process, and an example will be presented for use by participants in their coursework assignment. The fundamentals of workplace ergonomics are introduced.
The third part of the unit will take an overview of four of the major facility operational areas that are amenable to management; Security, Cleaning, Energy, and Repairs & Maintenance, which between them consume the major portion of facilities costs..
Finally the establishment of management practices, policies and procedures will be discussed, and the basis for the second coursework assignment set.

This Unit directly corresponds with AFM Competencies:
AFM 1: Manage Facilities; Improve Facility Performance; Manage Risk
AFM 2: Manage Finance; Manage Facility Portfolio
AFM 3: Manage Facility Portfolio

This Unit Indirectly Corresponds with AFM Competencies:
AFM 1: Manage Delivery of Services; Implement Procurement Outsourcing.
AFM 2: Develop Strategic Facility Response; Manage Facility Portfolio.
AFM 3: Develop Strategic Facility Response.

DESC 9049 **Financial and Managerial Accounting**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr David Leifer. **Session:** SI Intensive. **Classes:** Lectures. Assessment: Two assignments (50% each).
Facilities Management is a subset of business management: As such, no 'management' can be exercised without first matching the need for resources against the resources available. This necessarily in-

volves the financial and accounting information systems of the organisation, and the 'tools' necessary to extract information in order to make informed decisions.

Students will learn how to interpret the standard historical information regarding organisations via the Balance Sheet, Profit & Loss Statement, and Cash Flow Forecast. Students will gain an appreciation of the underlying assumptions behind these performance measures and will learn how to interpret this information in order to recognise good and poorly performing businesses.

Students will also gain an appreciation of accounting as a forward-looking managerial tool for controlling the conduct of an organisation. This will include an understanding of the budgeting process and how it can be utilised to achieve the Facility Management mission.

This Unit directly corresponds with AFM Competencies:
AFM 1: Manage Facilities; Improve Facility Performance;
AFM 2: Manage Facility Portfolio
AFM 3: Facilitate Communication

This Unit Indirectly Corresponds with AFM Competencies:
AFM 1: Manage Risk.
AFM 2: Manage Finance; Develop Strategic Facility Response.

DESC 9050 **Fire Protection Services**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. A/Prof Warren Julian. **Session:** S2 Intensive. **Classes:** Lectures and computer laboratory. **Assessment:** 5 assignments (20% each).
NB: This unit of study is offered in even numbered years only.
Objectives
To provide students with the knowledge and skills to design water-based fire suppression systems and fire detection systems for the more commonly encountered fire risks, and to impart an understanding of the basic principles of fire safety engineering.
Content
Fire safety in large modern buildings depends heavily on fire detection and suppression systems. This unit explores design rules for manual and automatic water-based systems intended to extinguish fires and detection systems designed to give early warning of fire. It also introduces the fundamental principles of fire safety engineering and their application in lieu of prescriptive rules.
Outcome
It is expected that students will complete the unit with sufficient knowledge to be able to design fire hydrant and hosereel, automatic sprinkler and fire detection systems for large buildings and that they will have a broad understanding of the principles of fire safety engineering, sufficient to enable them to consider some of the alternatives to conventional prescriptive design.
Assignments will test design skills learned during the progress of the course.

DESC 9059 **Hydraulic Services**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. A/Prof Warren Julian. **Session:** S2 Intensive.
NB: This unit of study is offered in even numbered years only.
Content
Presents principles, concepts assumptions, rules and regulations required for the analysis and design of hot and cold water supply systems, and stowmwater drainage systems, including stormwater retention systems and systems for piped gases for commercial and industrial buildings.

DESC 9067 **Mechanical Services**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Alan Obrart. **Session:** SI Intensive. **Classes:** Lectures, laboratory work and demonstrations. **Assessment:** Six assignments (2 x 10 per cent, 2 x 15 per cent, 2 x 20 per cent) and a laboratory report (10 per cent).
NB: This unit of study may be offered in alternate years.
Objectives
* To review relevant principles of thermodynamics and fluid mechanics;
* to introduce students to practical applications of these principles to the processes of heat load estimation and the distribution of fluids as heat transfer media and to the design of simple air conditioning and ventilation systems;
* to outline elementary principles of noise control in buildings; and
* to outline the basic principles of water supply, drainage and water-based fire suppression systems in buildings.
Content
Mechanical services are an essential component of most modern commercial buildings with a strong influence on other services and the architecture. This unit provides an introduction to these services for recent graduates or diplomates in mechanical engineering and an understanding of fundamental principles and practice for people from backgrounds other than mechanical engineering.
Outcomes
Students should acquire skills in estimation of building cooling and heating loads, design of simple air-conditioning systems and the design of piped systems for the circulation of water and refrigerants as heat transfer media. Students should also gain an understanding of the principles of energy and mass transfer underlying mechanical services systems and fundamentals of noise control, water supply and drainage and fire suppression systems.
Assignments will test the students' ability to apply knowledge and skills gained in lectures. They include simple applications of thermodynamics and fluid mechanics, estimation of building cooling and heating loads and the design of a piped system for water circulation, a refrigerant transport system and a simple air-conditioning system.

DESC 9068 **Interactive Multimedia Design**
6 credit points. Grad Cert Des Sc (Des Comp), Grad Cert Des Sc (Dig Media), PG Coursework Exchange. Dr Petra Gemeinboeck. **Session:** Semester 2. **Classes:** Lectures and tutorials. **AssumedKnowledge:** DESC (9091 or 9123 or 9175). **Prerequisites:** DESC9139 or DESC 9174. **Prohibitions:** DECO2002. **Assessment:** Includes analytical tasks; demonstrated knowledge applied to project work.
NB: Permission required unless enrolled in the Design Computing, Digital Media or Film and Digital Video stream. Enrolment numbers are limited by teaching resources.
Objectives
- Develop a solid grasp of multimedia authoring and interface design, distinguished by an understanding of aesthetic design principles, design architecture, and interactive interface design.
- Examine different destination contexts and delivery media.
- Understand the implications of different multimedia publication methods on authoring, the development environment, and media processing and handling for a compact, communicative product (which includes distribution, packaging, loading, libraries, and media resource efficiency).
- Implement advanced interactivity methods, including: data handling; game design, entertainment and education - user feedback; and interactive navigation.
- Develop a grammatical and conceptual understanding of scripting, treated as an extension of interactive capabilities (through Frame Actions, object-oriented Actions, media and movie control, and using variables and expressions to act on dynamic conditions).
- Learn contextual sound and video control, handling, synchronisation and streaming, include imported media, 2D animation (motion, position, colour, tweening shape).
- Package and optimise projects for presentation or publication.

Description
This unit of study introduces the broad range of technologies that make up multimedia systems and their integration. The course practice involves a focus on interactive multimedia presentation involving graphics, sound, motion and human-computer interaction. Projects will utilise the authoring program Macromedia Flash and its scripting language, Action Scripting. Flash is versatile as an authoring program appropriate for distribution on various platforms and media with an Internet focus.

Outcomes
- A thorough methodology for designing interactive experience, integrating multimedia.
- A conceptual understanding of human-computer interaction.
- Demonstrated interactive interface design using current software application skills.
Textbooks
Sanders, William B. (2003) Flash MX. Complete Course. Seybold Seminars, Wiley Publishing, Inc., USA.

DESC 9071 **Organisational Analysis and Behaviour**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr David Leifer. **Session:** SI Intensive. **Classes:** Lectures. **Assessment:** Two assignments (50% each).
Organisations exist because individuals can achieve far more when they work together than they can singly. However, individuals have to subordinate their own motives to that of the organisation. This unit examines the social science theories that offer explanations allowing organisations to harness the best from the individuals that comprise it. The physical workplace effects individuals, hence organisations.

Of great importance to the organisations are the areas of Industrial Relations and Human Resource management, as they are key to maintaining a harmonious working environment. Clearly, the Facilities Manager is part of the team ensure harmony prevails.

This unit examines six areas:
- The individual in an organisation;
- Groups in an organisation;
- The structure of the organisation;
- The way organisations evolve and change;
- Organizational management
- Industrial relations

Textbooks
McShane.S.L, Von Glinow.M.A, Organizational Behaviour: Emerging realities for the workplace revolution, Irwin McGraw-Hill, 2000 ISBN 0-256-22896-5.
Hampden-Turner.C.M, Trompenaars.F, 2000 Building Cross-Cultural Competence, Yale University Press, New Haven, 2000

DESC 9074 **Project and Contract Management**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr David Leifer. **Session:** S2 Intensive. **Classes:** Lectures. **Assessment:** Two assignments (50% each).
The ability to manage depends upon the availability of appropriate information. Collecting, storing, and maintenance of information has resourcing costs. Information needs have to be assessed, and systems produced to ensure that the correct data is collected, stored correctly, and up-dated.
Contracts are supported by a large body of law and precedents decided by courts. This body of knowledge needs to be understood in general terms.
Initially Facility Managers must identify and define the services that are needed, and that their employers are willing to endorse to sustain the facilities for which they are responsible. Facility Managers then have to assess the best means of having those services
Whatever the decisions on in-sourcing or out-sourcing, work specifications and contracts need to be developed, and means of performance measurement derived. Allocating the responsibility for supervision and policing of the work has to be defined.
Project management is a specific form of establishing, programming, and coordinating an activity having a specific start point and end point. This unit will develop the student's ability to ascertain and document the scope of a project, schedule a programme, and understand the difficulties in directing it.

This Unit directly corresponds with AFM Competencies:
AFM 1: Manage Facilities; Improve Facility Performance;
AFM 2: Manage Facility Portfolio
AFM 3: Develop Strategic Facility Response; Facilitate Communication

This Unit Indirectly Corresponds with AFM Competencies:
AFM 1: Manage Delivery of Services; Manage Risk.
AFM 2: Manage Finance; Develop Strategic Facility Response.

DESC 9079 **Statistics in Environmental Design**
4 credit points. Grad Cert Des Sc (Sustainable Des), M Phil (Arch), PG Coursework Exchange. Dr Simon Hayman. **Session:** Semester 2. **Classes:** Lectures. **Assessment:** 1 assignment.
NB: Recommended for MPhil(Arch) and PhD students requiring statistical skills for their research.
Objectives
The unit aims to demonstrate the range of statistical tools that can be applied to the analysis of problems in environmental design and person-environment studies, to explore the appropriateness of data collection and analysis techniques, and to provide statistical support for research programs.
Content
Many problems in environmental design and person-environment studies require data collection and analysis. Many such data, especially those concerned with human response, can only be effectively analysed with statistics. This unit covers data gathering, descriptive, inferential and predictive statistics as well as an introduction to multivariate techniques. The use of computer-based tools is encouraged.
Outcomes
Students should be familiar with a range of statistical tools, be able to demonstrate the application of these tools to a problem in environmental design and/or person-environment studies and be able to utilise appropriate data collection and analysis techniques.
The assignment draws upon a research case study in either environmental design or person-environment studies for primary data. Data description, exploration and analysis will be carried out to find appropriate techniques for the research questions posed.

DESC 9090 **Audio Systems and Measurement**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 2. **Classes:** Lecture, laboratory. **AssumedKnowledge:** DESC 9138. **Assessment:** Laboratory, project.
Objectives
* Students will learn to make and understand a wide range of acoustical and electroacoustical measurements, assessed through laboratory work;
* Students will learn major aspects of sound system design, assessed through project work;
* Students will work in small groups in laboratory and project work;
* Audio Systems and Measurement will develop knowledge and practical skills in electroacoustics; and
* The laboratory and project work will extend thinking and personal skills, so that students can apply the course content to new situations.
Outcomes
Upon completing Audio Systems and Measurement, students will be expected to understand the implementation and limitations of a wide range of acoustical measurement techniques, such as sound pressure, sound intensity, sound power, source directivity, reverberation, intelligibility, echo interference, subjective quality, and component distortion. Students will also be expected to be able to design sound reinforcement systems, and to model system performance using various theoretical techniques.

DESC 9091 **Digital Media Production**
6 credit points. Grad Cert Des Sc (Dig Media), PG Coursework Exchange. Dr Kristy Beilharz. **Session:** Semester 1, Semester 2. **Classes:** Lectures and tutorials. **Corequisites:** DESC9139 or DESC9174. **Assessment:** Includes analytical tasks; using capturing, editing and production skills and demonstrated knowledge of digital media production applied to a folio of digital elements.
NB: Permission required unless enrolled in the Digital Media stream. Enrolment numbers are limited by teaching resources.
Objectives
- Develop knowledge of the background of digital media;
- Understand design concepts for digital media;
- Develop an understanding of digital media types and processes;
- Develop an understanding and skills needed to prepare media for integration in different outputs - CD-ROM, the Internet, DVD, etc.

Description
This Unit of Study provides foundational knowledge and understanding of digital media formats and production. It prepares the student with production skills that will be implemented and integrated in related interactive multimedia design and web site design Units of Study.

Outcomes
- An in-depth understanding and practical experience in the production of digital media for interactive multimedia on CD-ROM and Internet-based applications.
- The ability to critically assess the resources needed and technical demands required for a digital multimedia project.
- An understanding of production processes.
- Skills and samples demonstrating basic image, sound and video production.

DESC 9092 **3D Animation 1**
6 credit points. Grad Cert Des Sc (Des Comp), Grad Cert Des Sc (Dig Media), Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Roy Malhi. **Session:** Semester 1, Semester 2. **Classes:** Lectures and tutorials. **Prerequisites:** DESC9019. **Assessment:** assessable class tutorials and stage submissions of the final project involving design and implementation of animation.
NB: Enrolment numbers are limited by space and equipment constraints. If your attempt to enrol on-line is refused please apply directly to the Faculty of Architecture for a place. First preference to students in the Design Computing, Digital Media or Film and Digital Video stream.
Conceptually based on traditional 2-dimensional animation, 3D Animation 1 introduces highly sophisticated computer animation workflow and techniques, which are the key to acquiring knowledge and skills in representing motion.

3D Computer Animation is a time based medium that utilizes advanced software with an intuitive API to provide the user with tools for creative control on complex forms, characters, lighting, textures, cameras and much more. The process of rendering a consecutive sequence of images within a scene in which relative motion of objects, changes in objects over time, and camera movement, provide the illusion, also referred to as animation. The objective of this unit is to introduce storyboarding and keyframe-based animation methods in the framework of the 3-dimensional medium. Students are expected to gain a thorough understanding of the components that are in-

volved in the development and implementation of an animated sequence in a 3-dimensional environment.

DESC 9105 **Neural Network Architecture and Applicat**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Phil (Arch), PG Coursework Exchange. Dr David Gunaratnam. **Session:** Semester 1. **Classes:** Lectures and tutorials. **Assessment:** 3 assignments (2 x 30%, one 40%). Students have the option of selecting a problem, from a domain of interest to them, for the 40 per cent assignment.
NB: Recommended for research students
Objectives
The unit aims to:
- introduce students to a number of neural network computational models available for solving a variety of generic problems;
- explore and identify the existence of these generic problems in a number of application areas within different disciplines;
- investigate the different pre-processing techniques available for improving the learning and generalisation capabilities of neural networks;
- explore the different methods available for selecting the neural network model characteristics for a given application; and
- present the basis for a number of the leaerning algoithms available for some of the widely used neural network models.
Content
The unit is organised around the three main sections: neurak network basics, models and applications. The section on neural network basics include the features and classification of generic problems, the architecture of neural networks and learning paradigms. A number of well established neural network types such as Multilayer Perception, Radial Basis Function, Kohonen, Probabilistic and Generalised regression networks along with the associated learning algorithms are considered in the models section. The application section considers issues such as variables selection, pre-processing of data, network selection and, training and validating of neural networks. The unit also explores the latest developments and refinements to some of the well established models, particularly in the areas of pre-processing of data and learning algorithms.
Outcomes
At the completion of the course each student is expected to:
- have a good understanding of the characteristics and capabilities of a number of neural network models;
- be able to associate a problem in a given application area with a generic problem class and select an appropriate neural network model;
- be cognisant of the theoretical bases for the features available in a number of the neural network simulation tools;
- be familiar with the latest developments in neural network modelling procedures; and
- be able to develop neural network models for applications within their own disciplines.
The above outcomes provide the basis for the different assessment tasks.
Textbooks
StatSoft (1998). Statistica: Neural networks manual (On-line manual).
Bishop, C. M. (1995). Neural networks for pattern recognition, Oxford University Press, Oxford.
Smith, M. (1993). Neural networks for statistical modelling, Van Nostrand Reinhold, New York.
Masters, T. (1995). Advanced algorithms for neural networks: A C++ sourcebook, New York.
Hay kin, S. (1994). Neural network: A comprehensive foundation, Macmillan College Publishing Company, New York.

DESC 9111 **Energy Management in Buildings**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr David Leifer. **Session:** S2 Intensive. **Assessment:** Two assignments (50% each).
Objective
To give students an understanding of energy consumption issues in buildings through both design and through operation. To give students an awareness of energy auditing, and current energy conservation techniques.
Content
This unit is primarily concerned with the management and control of electrical power delivered via the grid.
We start with the commercial electricity sales environment; the rental of transmission lines, the rental of the Utility company's infrastructure, the Non-Fossil Fuel Obligation, and Tariff structures.
We will concentrate on the processes and the considerations involved in undertaking an energy audit, which will also be the focus of Assessment assignment 1. The options for demand management, including outsourcing will be examined.
Passive Energy design, which 'locks in' future energy usage will be presented. Active energy systems and their fundamentals - lighting, air conditioning, hot water, ventilation, vertical transportation, and machinery, will be reviewed.
Finally methods of assessing energy performance including computer simulation will be covered.

DESC 9112 **Service Provision**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr. David Leifer. **Session:** SI Intensive. **Classes:** Lectures. **Assessment:** Two assignments (50% each).
Objectives
To give students tools to assess the financial viability of carrying out facility management tasks through in-house or out-sourced labour. To expose students to the range of service contracts available.
Content
This Unit deals with facilities services delivery.
Initially Facility Managers must identify and define the services that are needed, and that their employers are willing to endorse to sustain the facilities for which they are responsible. Facility Managers then have to assess the best means of having those services delivered.
The advantages and disadvantages of in-house and outsourced servicing need to be considered.
An understanding of Workplace Relations will be essential as most FM tasks are labour intensive. Dealing with direct in-house labour demands more of the Facility Manager than out-sourced labour.
Whatever the decisions on in-sourcing or out-sourcing, work specifications need to be developed, and means of performance measurement derived. Allocating the responsibility for supervision and policing of the work has to be defined.
If in-house, work needs to be programmed and resourced. If outsourced, then various forms of contracting will need to be considered, and a tendering process undertaken.
Change management is needed in moving from one form of servicing to another.
This unit directly corresponds with AFMA competencies:
AFM 1: Manage Delivery of Services; Implement Procurement Outsourcing
AFM 2: Manage Workplace Relations
AFM 3: Manage Change

This unit indirectly corresponds with AFM competencies:
AFM 1: Manage Facilities; Improve Facility Performance; Manage Risk.
AFM 2: Manage Finance; Develop Strategic Facility Response; Manage Workplace Portfolio.
AFM 3: Develop Strategic Facility Response.

DESC 9113 **Computer Aided Facility Management**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr David Leifer. **Session:** S2 Intensive. **Classes:** Computer laboratory. **AssumedKnowledge:** DESC9047 and DESC9048. **Assessment:** One assignment (100%).
The ability to manage depends upon the availability of appropriate information. Collecting, storing, and maintenance of information has resource costs. Information needs have to be assessed, and systems produced to ensure that the correct data is collected, stored correctly, and up-dated.
Managing large amounts of information requires a computer system. If, in Facilities Management operations, data needs to be connected to drawn information the necessary systems become more complex.
This Unit presents:
- An awareness of the design and operation of databases and query languages.
- The resources available to establish, operate and maintain information systems.
- Information need in terms of FM operations, Key Performance Indicators, and Continuous Improvement.
- Information systems and quality assurance considerations.
- The range and types of reports required from the information systems also needs prior consideration.

This Unit directly corresponds with AFM Competencies:
AFM 1: Manage Facilities; Improve Facility Performance;
AFM 2: Manage Facility Portfolio
AFM 3: Develop Strategic Facility Response; Facilitate Communication

This Unit Indirectly Corresponds with AFM Competencies:
AFM 1: Manage Delivery of Services; Manage Risk.
AFM 2: Manage Finance; Develop Strategic Facility Response.

DESC 9115 **Digital Audio Systems**
6 credit points. Grad Cert Des Sc (Audio Des). Dr Densil Cabrera. **Session:** Semester 1. **Classes:** Ten lectures (3 hours each) Three laboratory sessions (3 hours each). **Assessment:** Three assignments: 70% Three laboratory reports: 30%.
NB: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.
Objectives
The objective of this unit is to provide both a strong theoretical understanding of digital audio and practical experience in applying these principles to digital audio systems.
Content
This unit offers a systematic approach to understanding digital audio systems. Beginning with basic principles the course provides a knowledge base for understanding advanced digital audio components, systems and techniques. Examples of everyday audio signals are used and characterised in terms of their temporal and spectral properties. Practical application is emphasised and is supported through laboratory exercises that include programming as well as the use of current hardware and software packages.
Topics include: digital principles, digital systems, sampling and quantisation, 1-bit and multi-bit conversion, digital signal processing, filtering, spectral analysis, sampling-rate conversion, data compression (MPEG etc), effects processing (echo, reverb etc), virtual reality audio, mixing, editing, optical storage (CD & DVD), magnetic storage (DAT & disks) and transmission formats (AES/EBU, SPDIF etc).
Outcomes
Having successfully completed this course the student will have the tools to understand what happens to a digital audio signal when a given process is applied to it; how to best apply this process and how to successfully combine digital audio components.

DESC 9116 Loudspeaker **Design**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 2.
Content
- Theory of electrodynamic loudspeaker operation;
- Theory and practice of selecting and testing drivers, designing enclosures and crossovers;
- Interaction of loudspeakers with room acoustics; and
- Objective and subjective testing of systems.

DESC 9117 **Sound Design for New Media**
6 credit points. Grad Cert Des Sc (Audio Des), Grad Cert Des Sc (Dig Media). Mr Michael Bates. **Session:** Semester 1, Semester 2. **Classes:** Lectures, computer lab, and studio sessions. **Assessment:** Project work (50%), written assignment (35%), class attendance and participation (15%).
NB: Permission required unless enrolled in the Audio, Digital Media or Film and Digital Media stream. Enrolment numbers are limited by teaching resources.
Objectives
-To introduce essential sound design concepts including editing, synchronisation, rythm and counterpoint;
- To provide an overview of the sound design for visual media process including development an understanding of the historical impact of film 'factory', radio and television broacasting production antecedents on the design language;
- To learn skills in tracklaying, mixing and mastering audio for different media and genres;
- To learn essential sound recording skills;
- To learn the creation of various psychoacoustic effects and atmospheres; and
- To learn essential file management and archiving skills.
Content
This unit is intended to give an understanding of the theory and practice of digital audio production for various visual media including digital video, web-based and interactive media.
Using the industry standard ProTools software the unit will look at current computer-based tools and techniques available to the sound designer, as well as examine the various underlying strategies, processes, and sound design philosophies. The unit will offer a grounding in the history, theory and criticism of sound design and its applicability to current digital visual media. It will introduce conventional and non-conventional production models across a range of media production modes in broadcasting and multimedia.
The sound designer's role in the process of creation of meaning will be examined in cultural as well as technical contexts of compositional practices. It is anticipated that the unit will encourage debate about and a demystification of current production practices. It will aim at developing and extending production techniques towards an individual aesthetic.
To learn essential post-production skills in computer-based sound design in a studio environment.
Outcomes
At the completion of this unit students will be expected to:
- understand the aural medium, essential concepts and terms;
- have an overview of film 'factory', radio and atelevision broadcasting production antecedents on the design language;
- be acquainted with the history, theory and criticism of audiovisual technology and design;
- develop an audiovisual language;
- understand spatial aspects of sound design; and
- develop technical and conceptual skills in preproduction; general miking techniques; postsynchronisation dialogue; editing dialogue; producing sound effects; multi-tracklaying; selecting music; creating atmospheres and various psychoacoustic effects; synchronisation and related issues; mixing sound for vision; mastering for different media and genres; archiving.

DESC 9118 **Building Design Practice 1**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Simon Hayman. **Session:** S2 Intensive. **Classes:** Letures and seminars. **Assessment:** Assignment.
Objectives
The provision of good buildings that satisfy the wide range of client needs, community demands and social and environmental responsibility places significant demands upon building designers. The purpose of this unit is to introduce a performance-based approach on a range of single building design issues, with case studies, to provide guidelines in good design practice and their application. It is suitable for those with little or no building design experience.
Outcomes
The student will understand the principles of performance-based design and abe able to apply it to simple design situations.

DESC 9119 **Building Design Practice 2**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Simon Hayman. **Session:** SI Intensive. **Classes:** Lectures and seminars. **Corequisites:** Prerequisite or Corequisite DESC9118. **Assessment:** Assignment.
Objectives
This unit develops the performance-based approach presented in Building Design Practice 1 with more complex and interacting issues. It is suitable for those with building design experience and emphasis will be placed upon the application of this approach to the students' own projects in their workplace.
Outcomes
The student will understand how interrelationships can be expressed with performance-based design and be able to apply it to more complex design situations.

DESC 9125 **Digital Video Design and Production**
6 credit points. Grad Cert Des Sc (Dig Media). **Session:** Semester 1, Semester 2. **Classes:** Lectures and tutorials. **Assessment:** Includes analytical tasks; using capturing, editing and production skills and demonstrated knowledge of digital video design and production applied to a major assessment incorporating all stages of digital video production.
NB: Permission required unless enrolled in the Digital Media or Film and Digital Video stream. Enrolment numbers are limited by teaching resources.
Objectives
- Acquire digital production skills demonstrated by a final project;
- Understand issues associated with video quality and compression;
- Develop knowledge of output formats (codecs) for digital Video;
- Understand the steps involved in digital video production;
- Develop skills for shooting digital video.

Description
This Unit of Study presents the student with a foundational perspective of the art and technology of digital video. Through practical exercises, the student will learn about core technologies associated with digital video production: video compression, audio synchronization, interfacing and capturing. Upon these basic skills, students will apply their knowledge to digital editing, transitions, digital video effects and batch rendering.

Outcomes
- Students will emerge with a video clip demonstrating the stages of digital video production, capturing, compositing, editing and rendering of digital video;
- Students will accrue knowledge and understanding of essential processes, practices and formats used in digital video design and production.
Textbooks
Altman, Sound Theory Sound Practice, Routledge, 1986
Media 100 Digital video System User Guide, 1998
Adobe After Effects

DESC 9133 **Architectural Acoustics Practice**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 2. **Classes:** Lectures. **AssumedKnowledge:** DESC9138 or DESC9012. **Assessment:** Two projects - one theoretical and one practical.
Objectives
This unit will cover a range of theoretical, practical and professional issues in architectural acoustics.
Content
- Codes and standards pertaining to architectural acoustics;
- Method and integrity of measurement;
- Room acoustical measurement, modelling, simulation and criteria;
- Sound absorption theory, measurement and specification;
- Sound insulation theory, measurement and specification;
- Design of spaces using acoustical criteria; and
- Field assessment of acoustical problems in and around buildings.
Outcomes
Students will acquire knowledge and experience in areas commonly dealt with by the acoustical consulting profession. They will gain an appreciation of current issues in architectural acoustics, possibly inspiring future research.

DESC 9134 **Audio Seminar**
6 credit points. Grad Cert Des Sc (Sustainable Des). Dr Densil Cabrera. **Session:** Semester 2. **Classes:** 1 hour seminar and individual supervision x 13 weeks. **Assessment:** Students will be required to do a small scale research project, which may be laboratory or studio based. This project will be presented in the seminar, and submitted with accompanying written report.
NB: Department permission required for enrolment.
Objectives
This unit introduces students to a broad range of current research in audio and acoustics, and gives them experience in research.
Content
A series of seminars on current research projects presented by active researchers in audio and acoustics, together with individual or small-group supervision of small-scale research projects.
Outcomes
The students will gain understanding of the research process, and receive some modest experience in research. They will appreciate a range of research methods and subject areas at the forefront of audio and acoustics. They will be in a good position to assess their interest in undertaking further academic research.

DESC 9135 **Digital Audio Production with ProTools**
6 credit points. Grad Cert Des Sc (Audio Des), Grad Cert Des Sc (Sustainable Des). Mr Michael Bates. **Session:** SI Late Int. **Classes:** Lectures held as intensive weekend course (3) with computer laboratory sessions. **Assessment:** Written project proposal demonstrating further research and comprehension of conceptual aspects of the production process, class presentation and project.
NB: Permission required unless enrolled in the Audio Design stream. Enrolment numbers are limited by teaching resources.
Objectives
This unit is intended to give an understanding of the principles and practice of computer-based audio production and post-production, through the focus of the industry standard ProTools software.
Content
This course will: introduce the student to multitrack audio production concepts and practices as used with a personal computer; give an understanding of the specialised approaches and techniques used with various media, genres and formats; teach skills in computer-based audio production in lectures, practical demonstrations and by individual or small-group practical work, both in-class and by assignments.
Outcomes
Students will develop technical and conceptual digital sound recording skills across a wide range of production areas. They will gain an understanding of the implications of non linear, hard disk based recording systems on production practices. They will develop sound design skills in composition, editing, signal processing and mixing, as well as mastering for various media,technical presentation of material, data management and archiving.

DESC 9136 **Music Technologies**
6 credit points. Grad Cert Des Sc (Audio Des). Mr Michael Bates. **Session:** Semester 2. **Classes:** Lectures, computer laboratories, studio sessions. **Assessment:** Students will be assessed by a series of small assignments, as well as a larger scale final project.
NB: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.
Objectives
This unit will introduce a wide range of electronic and computational approaches to music production, with a focus on analogue and digital sound synthesis, MIDI and audio sequencing, sampling, and inter-application synchronisation.
Concepts and practices examined will include the implications of non-linear recording technologies on music composition, sound design and studio production practices ; the integration of symbolic and continuous audio data; music production for the internet; interactive and intelligent computer-music systems; virtual musical instrument design; and computer music programming.
Content
- Sound synthesis theory and practice;
- Symbolic music and sequencing;
- MIDI, M-LAN, MPEG 4 and other recent developments in music technology;
- Sampling and re-processing;
- Interactive music technology and virtual musicians;
- Computer programming for music production;
- Real-time interactive networked music; and
- Music in new media.
Outcomes
Students will gain an understanding of many approaches to music technology, and will become adept at music production using computers. The knowledge acquired in this course will be applicable to a wide range of music and audio production contexts including film, video and new media.

DESC 9137 **Spatial Audio**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 1. **Assessment:** Two assessment tasks - a theoretical exercise-based assignment, and a practical production-based assignment. The practical assignment will be flexible enough to accommodate a wide range of student interests.
Content
- Stereophonic, surround sound and binaural sound production techniques;
- Theory of auditory space;
- Spatial sound representation via single channel systems;
- Beyond localisation: spatial sound quality;
- Impulse response theory, measurement and prediction, and convolution;
- Auralisation for architectural design;
- Virtual sound space synthesis;
- Hybrid real/virtual sound spaces; and
- Interactive sound spaces and internet applications.
Outcomes
Students will acquire:
- strong theoretical foundations in spatial audio;
- experience in spatial audio systems (physical and computational);
- an appreciation of spatial audio potential of emerging technologies; and
- an ability to integrate spatial audio into their broader practice.

DESC 9138 **Architectural and Audio Acoustics**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Densil Cabrera. **Session:** Semester 1. **Classes:** Lectures. **Assessment:** A series of small-scale assignments.
Objectives
This unit will introduce the fundamental concepts and issues of audio and architectural acoustics.
Content
- Basic acoustical concepts, quantities and units;
- Principles of sound propagation;
- Sound absorption and room acoustics;
- Physiological and psychological acoustics;
- Microphones and loudspeakers;
- Spatial audio;
- Noise measurement and specification; and
- Principles and specification of sound insulation.
Outcomes
Students will be able to understand acoustical terminology, and perform calculations applicable to sound in the environment, in buildings, and in audio contexts. They will have the ability to critically assess claims of acoustical performance. This unit will provide the theoretical foundation of advanced units in audio and acoustics.

DESC 9141 **3D Animation 2**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Roy Malhi. **Session:** Semester 1, Semester 2. **Classes:** Lectures and extensive tutorials. **Prerequisites:** DESC 9092. **Assessment:** assessable class tutorials and stage submissions of the final project involving design and implementation of sound-synched animation.
NB: Department permission required for enrolment. Enrolment numbers are limited by teaching resources. First preference to students who receive high marks in the DESC9092 and are enrolled in the Design Computing, Digital Media or Film and Digital Video streams.
3D Animation 2 will combine traditional animation knowledge and skills with sophisticated character rigging and animation techniques to simulate highly complex motion and expression. The unit will concentrate on understanding and the representation of motion while expanding and developing intuitive custom animation rigs driven

by a story. Students will analytically interpret movement, character interaction and speech, develop a character-based story and produce a synched-to-sound short animated sequence with full creative freedom.
The course utilises production level cutting edge software and hardware, incorporates theory with practical tuition with a studio teaching environment while maintaining close attention to each student by keeping low numbers in each class.

DESC 9142 **Advanced Interaction Design**
6 credit points. Grad Cert Des Sc (Dig Media), PG Coursework Exchange. **Session:** Semester 1. **Classes:** Lectures and tutorials. **Prerequisites:** DESC9068 and DESC (9123 or 9175) and DESC (9139 or 9174). **Assessment:** Major multimedia project evaluating understanding of interaction, navigation and multimedia design; minor project; and research paper.
NB: Permission required unless enrolled in the Digital Media stream. Enrolment numbers are limited by teaching resources.
Objectives
- Develop multimedia development methodologies;
- Extend understanding and implementation of interactivity and navigation design;
- Develop strategies for management of digital media;
- Understand the scope of interfacing technologies - haptic, physical, virtual;
- Develop an understanding of human cognitive and motor capabilities;
- Advance skills in authoring and programming multimedia;
- Understand integrated multimedia systems.
Description
Students in this unit of study will be introduced to multimodal VI and develop conceptual knowledge of HCI. In addition, key areas learned and practised in this unit are authoring, integration of media and interactive interface design that extend from DESC 9068 Interactive Multimedia Design. The unit will address cross-cultural aspects of design and perceptions of quality. Human cognitive and motor capabilities will be considered in the design of multimedia. Effective communication through multimedia and general principles of information design will be explored. Principles of effective design for computational media and developing an engaging interactive user interface are the main focuses. The scope of exploration will extend to digital interface devices and site-specific multimedia installation.
Outcomes
- A broad understanding of available technologies and methodologies for integrating multimedia.
- Demonstrated principles of interactivity and design communication through the authoring of an interactive multimedia project using current development software and interface devices.
Textbooks
(Recommended — Not Required):
Ulrich, Katherine (2001) Macromedia Flash (5) for Windows and Macintosh. Visual Quickstart Guide, Peachpit Press, Berkeley, CA, USA. [A$39.95]
Hamlin, J.S. & Emberton, D.J. (2001) Flash 5 Magic with ActionScript, New Riders Publishing, Indiana, USA. [c. A$87.95]

DESC 9145 **Sustaining the Built Environment**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Bruce Forwood. **Session:** SI Intensive. **Classes:** Lectures, seminars. **Assessment:** Written assignments.
Aims
The unit will aim to heighten student's awareness of the major environmental and resource issues facing the planners and designers of the built environment; introduce and explore concepts of ecological sustainable development as they apply to the built environment and debate the roles that designers and planners should play in the development of a sustainable future.
Content
An environmental history of 20th century urban growth and development; the impact of climate change and environmental degradation upon the planning and design of the built environment; energy and resource flows in the built environment; the dimensions of ecological sustainable development; urban and regional planning perspectives on a sustainable built environment; the roles of governments, industries and professions in creating a sustainable built environment; the role of architects in creating a sustainable built environment.
Objectives
Students will be expected to take part in structured discussions relating to the design and planning of a sustainable built environment and prepare a personal response to the issues raised in these discussions and other course material.
The unit will broaden students understanding of the significance of sustainable architectural practice and planning upon creating a sustainable future built environment.

DESC 9146 **Climate, Comfort and Sustainable Design**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Bruce Forwood. **Session:** SI Intensive. **Classes:** Lectures, seminars. **Assessment:** Written assignment, project.
Aims
To establish the importance of climate and human thermal comfort as external and internal influences upon the form and substance of sustainable buildings; introduce a basic understanding of the thermal and other processes which create climate and influence human thermal interactions with their environment; introduce techniques for analysing and interpreting climates and specifying appropriate thermal dimensions for the spaces within sustainable buildings.
Content
- Climate: the meaning of the concept of climate; the elements of climate - solar energy, the atmosphere, longwave radiation, the carbon cycle, the water cycle, winds, the earth's energy balance; the causes and likely impacts of global climate change; the influence of climate upon built form; the consequences of climate change upon building design practice; climate data and its interpretation.
- Thermal Comfort: energy balance of the human body and its thermal environment; thermal spatial dimensions and their impact upon human thermal sensations; traditional methods for defining and measuring thermal comfort; cultural and climatic influences upon thermal comfort; the Adaptive Model of thermal comfort and its application to sustainable design of buildings.
- Buildings as environmental filter.
Objectives
Students will be expected to demonstrate competence in understanding the operation of climates at global and local scales and in interpreting and analysing climate data for building design purposes; their ability to define appropriate thermal dimensions for buildings and their ability to apply this knowledge and these skills to a simple design exercise.
The unit will broaden students understanding of the significance of considering climate and thermal comfort as essential design criteria for creating a more sustainable built environment.

DESC 9147 **Sustainable Building Design Principles**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Bruce Forwood. **Session:** S2 Intensive. **Classes:** Lectures, seminars. **Assessment:** Written assignment, project.
Aims
To develop an understanding and knowledge of the principles underlying sustainable building design practice, in particular those principles which relate to the environmental attributes of the building fabric, the creation of healthy and comfortable interior environments, the selection of appropriate building materials and the minimisation of embodied and operational energy consumption.
Content
Environmental and health impacts of building materials; indoor air quality; embodied energy of building materials; understanding energy flows between buildings and their environment; the principles of passive solar heating strategies in cold and temperate climates; strategies for controlling solar and other loads on the building fabric; principles of cooling by natural ventilation; low energy mechanical cooling strategies; hybrid and mixed-mode cooling strategies.
Objectives
Students will be expected to demonstrate their knowledge of the relevant properties of building materials and construction elements which impact upon the environmental performance of buildings and to demonstrate their competence at applying this knowledge to the formulation of appropriate sustainable design strategies.

DESC 9148 **Sustainable Building Design Practice**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Bruce Forwood. **Session:** S2 Intensive. **Classes:** Lectures, seminars. **Assessment:** Written assignment, project.
Aims
To explore the implications of applying sustainable building design principles on design practice; to evaluate and critique the sustainability of current design practice through an examination of current theory and professional ethics and the exploration of case studies; to explore the development of new sustainable design paradigms.
Content
The response of architectural practice to the rise of environmentalism in the 20th century; the emergence of passive solar architecture; ecologically sustainable design [ESD] and its impact upon current design practice; real and perceived barriers to a more sustainable design practice; impact of education and theory on practice; express-

ing the values of sustainability in built form; towards a new sustainable design paradigm
Objectives
Students are expected to demonstrate an ability to critique current building design practice in relation to sustainable design principles; to demonstrate their knowledge of key recent buildings which their designers claim to be sustainable and their ability to evaluate these claims; to enunciate a personal position on the impact of applying sustainable design principles on future design practice.
The unit will broaden students understanding of the principles of sustainable building design and and their impact upon future design practice.

DESC 9149 **Sustainable Design Workshop**
6 credit points. Grad Cert Des Sc (Sustainable Des). Mr Bruce Forwood. **Session:** Semester 1, Semester 2. **Classes:** Project work - private study. **Assessment:** Project.
Aims
The unit of study provides an opportunity for applying the principles of sustainable design practice to a particular design project.
Content
The exploration of sustainable design principles in response to a design brief and the demonstration that the resulting design solution satisfies the intended sustainable design criteria.
Objectives
Students are expected to demonstrate an ability to respond to the requirements of a design brief in order to produce a building design which demonstrably embodies the principles of sustainable design.
The unit will broaden students' understanding of the principles of sustainable building design and their impact upon future design practice.

DESC 9150 **Sustainability Research Project**
6 credit points. Grad Cert Des Sc (Sustainable Des). Mr Bruce Forwood. **Session:** Semester 1, Semester 2. **Classes:** Project work - private study. **Assessment:** Project.
Aims
The unit will provide an opportunity for students to undertake supervised research on a topic related to Sustainable Design.
Content
The unit provides students with the opportunity for intensive study of a particular aspect of sustainable building design. The study may take the form of a state of the art review, case studies, modelling, field study or a position paper on a particular issue.
Students undertaking a masters dissertation could use this unit to explore and develop a potential topic.
Objectives
Students are expected to demonstrate their ability to undertake, document and report upon a small piece of structured research related to Sustainable Design.
The unit will broaden students understanding of the principles of sustainable design.

DESC 9151 **Introduction to Building Services**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. A/Prof Warren Julian. **Session:** SI Intensive. **Classes:** Intensive mode.
Prohibitions: DESC2101 andARCH5202. **Assessment:** Assignments.
Objectives
To provide students with sufficient knowledge of the principles of operation of the various services systems in buildings of larger than domestic scale in order to be able to contribute competently to the decisions that have to be made about these systems and to be aware of the implications of these decisions upon building design.
Outcomes
At the completion of this unit the student is expected to:
- understand the principles involved in the functioning of the systems (these principles should remain relevant in the future even if the technology changes);
- know about the technology currently available, and understand the issues involved in deciding between competing solutions (not necessarily to make a final choice but to contribute competently to a discussion about that choice); and
- be aware of the implications the system has on the planning of the building. This usually means the space occupied, the need for access for maintenance and the effect on floors below and above. In the case of lifts, escalators and stairs, the pedestrian traffic patterns created should be considered.
Topics covered include: strategic planning for services; air conditioning and ventilating systems; lifts and escalators; hydraulics systems; fire services; electrical services, lighting, security systems.

DESC 9152 **Lighting Design Masterclass**
6 credit points. Grad Cert Des Sc (Sustainable Des). A/Prof Warren Julian. **Session:** SI Intensive. **Classes:** Intensive studios. **AssumedKnowledge:** Lighting design fundamentals.
NB: Department permission required for enrolment. This unit of study is offered in even numbered years only.
Content
A studio-based program of advanced lighting design conducted by experienced practicing lighting designers. Application of lighting knowledge to the design of a lighting solution and its presentation in a form suitable for non-expert clients.

Objectives and learning outcomes
The student will learn how lighting design is conducted in a studio environment, from the brief, to understanding site conditions, to preliminary design, to the final design and client presentation skills.

DESC 9153 **Lighting Internship**
6 credit points. Grad Dip Des Sc (Sustainable Des). A/Prof Warren Julian. **Session:** Semester 1, Semester 2. **Classes:** Fieldwork. **AssumedKnowledge:** Lighting design fundamentals. **Assessment:** Log book signed by lighting designer; pass/fail only.
NB: Department permission required for enrolment. Graduate Diploma or Masters students only.
Content
A program of practical experienced gained in lighting design practice. The student must complete at least 120 hours of full or part-time experience, supervised by a practicing lighting designer. A log book of work undertaken, signed by the supervisor must be submitted on completion.

Objectives and learning outcomes
The student will experience lighting design practice under the guidance of an experienced lighting designer. Teamwork and design skills and office/job management will also be gained.

DESC 9154 **Lighting Design Software**
6 credit points. Grad Dip Des Sc (Sustainable Des). A/Prof Warren Julian. **Session:** SI Intensive. **Classes:** Intensive. **AssumedKnowledge:** Lighting design fundamentals. **Prerequisites:** 24 credit points. **Assessment:** Four assignments of equal value.
NB: Graduate Diploma or Masters only. This unit of study is offered in even numbered years only.
Students will be learn how to use software for the design of interior and exterior lighting. Rendering software will also be discussed and demonstrated. Assignments requiring the use of software, such as AGI, will demonstrate the achievement of the objectives.

Content
Types of software including product design, photometry, etc but emphasizing interior and exterior lighting design. Data formats. Availability of data. Exporting and importing (eg with AutoCAD). Basics of AGI and exterior software. Workshops and tutorials.

Objectives and learning outcomes
Students will understand lighting design software; understand limitations and calculation models; gain some experience in its use and understand the import and export of data.

DESC 9155 **Visual Perception and Digital Imaging**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr. Kirsty Beilharz & Hon. Assoc. Terry Purcell. **Session:** S2 Intensive. **Classes:** Lectures & studio tutorials. **Prerequisites:** DESC9091 Digital Media Production. **Assessment:** Includes analytical tasks and using capturing, software skills and knowledge about visual perception applied to a folio of digital images.
NB: Department permission required for enrolment. Enrolment numbers are limited by teaching resources. First preference given to students in the Digital Media stream.
Objectives
- Develop an understanding of the human visual sensory system;
- Understand how we perceive texture and surfaces according to light;
- Utilise knowledge of colour perception in design and imaging;
- Understand digital handling of light and colour in capture and computational devices;
- Develop skills to compose and manipulate digital images with particular relation to colour, light and visual perception.

Description
This Unit of Study investigates human visual perception, optical sensory systems and the way we interpret light through surface, texture and colour. This knowledge is applied to the digital capture of images and software manipulation building on the foundations of visual perception.

Visual perception involves surface and light: light in the environment, its relation to design, visual sensory systems, adaptation, textured

and patterned surfaces, refraction, illumination and reflection. Colour perception and its influence on design and digital image composition is explored: metameric and complementary colours, partative and subtractive colour mixing, colour systems, hue, saturation, contrast, light levels, perceptual affects of adjacent colour, backgrounds, distance and environmental factors influencing visual images. Emotional, schematic and structural design effects of colour are considered.

Human visual perception is related to photographic and digital capture. Aperture, depth of field, colour temperature, white balance, how digital devices (cameras, scanners, monitors) handle light and colour will be discussed. The computational focus of this unit of study relates manipulation and management of digital images, light, colour and visual effects to our perception. The student will learn colour management processes and adjustment methodologies for hue, saturation, levels, blur, clarification and skills for image composition, framing and presentation.

Outcomes
A folio of images captured and processed according to knowledge of visual perception and technical skills in digital imaging.

DESC 9156 **Digital Compositing and Visual Effects**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Roy Malhi. **Session:** Semester 1, Semester 2. **Classes:** Lectures and lab tutorials. **Prerequisites:** DESC (9091 and 9092 and 9125). **Assessment:** Project work demonstrating knowledge of media integration, resulting from production processes considered during the Unit of Study.
NB: Department permission required for enrolment. Enrolment numbers are limited by teaching resources. First preference given to students in the Digital Media stream.
Objectives
- Develop knowledge of digital imagery, motion graphics, visual effects, sound synchronization and digital video;
- Understand media types and functions;
- Develop an in-depth understanding of the digital image and visual effects production process;
- Develop skills using compositing, 3D animation, image editing, vector imaging, sound editing, video editing and burning (production) software applications;

Description
Digital compositing is the integrated result of at least two source images or components. This unit of study focuses on developing an understanding of media types and functions. Students will expand media creation skills, utilising previous and newly acquired knowledge to develop a flowing, unified result.

Outcomes
Students will produce an integrated sequence from multiple images with synchronised sound, demonstrating understanding of the digital image and visual effects production process (output on VHS, CD, DV or DVD).

DESC 9157 **Digital Media Design Studio**
12 credit points. M Des Sc (Dig Media), PG Coursework Exchange. **Session:** Semester 1. **Classes:** Lectures and studio. **Prerequisites:** DESC (9019 and 9068 and 9091 and (9123 or 9175) and (9139 or 9174)). **Corequisites:** DESC 9142.. **Assessment:** Report relating to digital media interaction; development and management project documentation; major product design and presentation.
NB: Enrolment numbers are limited by teaching resources. First preference given to students in the Digital Media stream. This unit is intended for Masters level students.
Objectives
- To integrate knowledge of interaction, human-computer interaction and multimedia technologies in the design of a major project;
- To extend the scope of foundational courses and apply in-depth knowledge to the innovative solution of a multimedia communication issue, digital media design scenario or installation-based interactive media on a significant scale;
- To develop management plan preparation and design process documentation skills.

Description
This Unit of Study provides a concentrated digital media design studio experience in which the student has available knowledge, expertise and scope to develop a major project integrating many of the areas addressed during the Degree. This is an opportunity to explore new and emerging technologies and the effects for developing digital media alongside augmenting and applying conceptual understanding of human-computer interaction. Entertainment, public performance applications and contextualised outcomes for digital media development will be encouraged. Emphasis will be placed on cultivating user interaction and engagement.

Outcomes
- Students will integrate knowledge accrued across a range of Units of Study in an integrated outcome;
- An augmented understanding of design problem solution, design development management and production strategies;
- An extended knowledge and application of human-computer interaction;
- An innovative solution or installation-based digital media experience.

DESC 9160 **Lighting Photogra**
***** No info available for 2006.** ***

DESC 9161 **Theatre and Performance Light**
***** No info available for 2006.** ***

DESC 9164 **Light Sources and Luminai**
***** No info available for 2006.** ***

DESC 9165 **Lighting Design**
12 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. A/Prof Warren Julian. **Session:** SI Intensive. **Classes:** Lectures and studio in intensive mode. **Prohibitions:** DESC9064.. **Assessment:** 5 assignments (3 x 16.7 per cent and 2 x 25 per cent).
NB: This unit of study is offered in even numbered years only.
Objectives
To develop the basic skills needed in the design of interior and exterior lighting.
Content
This unit brings together the material of the four basic lighting units to develop the concepts and methodologies of interior lighting design. Topics covered include: the perception of colour, form, pattern and space, and issues relating to the perception and comprehension of the large-scale environment; aesthetics, perception and emotion; the limited quantitative procedures available for use in achieving the foregoing; the practical methods available for predicting illuminances from daylight and uniform arrays of luminaires; the prediction of discomfort; appraisals; codes of practice; economics; maintenance; integration of daylight and electric light.
More advanced methods of interior lighting design follow, including: design appearance techniques; lighting systems; colour and atmosphere-creating; task analysis; choices of sources and luminaires; practical considerations of various lighting situations (e.g. domestic, offices, factories, hospitals, schools, etc.); special applications (stage, television, merchandising, agriculture, etc.).
The requirements for various exterior lighting applications are discussed. Some topics are treated in greater depth (e.g. various floodlighting techniques) than others (e.g. road, tunnel, aircraft and navigation lighting). Topics covered include: general floodlighting requirements; floodlighting equipment; light distributions; calculation methods; area floodlighting; building floodlighting; road lighting; pedestrian lighting; tunnel lighting; vehicle lighting; traffic signals, airport lighting; navigation lighting; display lighting; advertising. Various computer-aided design methods are discussed and demonstrated. Assignments based on computer-aided design are used as part of the assessment.
Outcomes
The student will be able to design simple and complex interior lighting using manual and computer-aided methods. The experience will include design for effect and atmosphere. The student will also be able to design exterior lighting for roads, sport and floodlighting. The outcomes will be demonstrated through individual design assignments.

DESC 9166 **Photo & Colorimetric Concepts & Mensu**
***** No info available for 2006.** ***

DESC 9167 **Vision and Visual Percept**
***** No info available for 2006.** ***

DESC 9168 **The Visual Field and Human Fact**
***** No info available for 2006.** ***

DESC 9169 **Daylight in Buildings**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Simon Hayman. **Session:** SI Intensive. **Classes:** Lectures in intensive mode. **Prohibitions:** DESC9106. **Assessment:** Design or research study.
NB: This unit of study is offered in even numbered years only.
Objectives
The unit will:

- introduce the physical processes behind the availability of daylight;
- explore the techniques for modelling daylight;
- explore design issues that result from daylighting needs;
- provide design information for the resolution of daylighting design problems;
- outline the issues involved in integration of daylight and electric lighting;

Content

This unit provides an overview of research in daylight measurement and knowledge about the possibilities for daylight design for buildings. Topics include:
- The atmosphere and daylight;
- Sky luminance distributions;
- Daylight measurement;
- Daylight modelling including illuminance and luminance models;
- Traditional daylighting techniques including building form, openings, glass and control devices;
- Innovative daylight technologies including 'light shelves', 'beam' lighting and photochromic glasses;
- Economics of daylight including electric light supplementation.

DESC 9170 **Services Control Systems**

6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. **Session:** S2 Intensive. **Classes:** Lectures and demonstrations in intensive mode. **Prerequisites: DESC9067. Prohibitions:** DESC9077. **Assessment:** 8 assignments (3x5 per cent, 2 x 30 per cent, 3 per cent, 7 per cent, 15 per cent).

NB: This unit of study is offered in even numbered years only.

Objectives

The unit will provide knowledge of electric control circuits and electric and pneumatic control elements as applied to the design of automatic control systems for air handling and refrigeration systems, and create an understanding of the selection and application of electronic, programmable logic and direct digital control systems.

Content

Automatic control is an essential part of all air-conditioning systems. Satisfactory performance requires not only a well-designed control system but also an air-conditioning system designed to be controllable. This unit addresses practical application of automatic controls to common types of air-conditioning systems. Automatic control principles discussed are applicable to systems other than air-conditioning.

Outcomes

It is expected that students will gain a knowledge of the capabilities and limitations of electric, electronic, pneumatic and computer-based control systems for HVAC applications with an understanding of the types of controllers available to perform automatic control functions; and that they will be able to design automatic control systems for HVAC applications and to prepare and understand control diagrams.

Assignments will test the knowledge gained by students in the above areas.

DESC 9171 **Vertical Transportation Services**

6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. A/Prof Warren Julian. **Session:** S2 Intensive. **Classes:** Lectures in intensive mode. **Prohibitions:** DESC9084..

NB: This unit of study is offered in even numbered years only.

Objectives

- To present an understanding of the movement of people through high-rise buildings;
- to instruct students in regulations and standards affecting the vertical transportation industry;
- to examine available types of lifts, escalators and moving walks;
- to present the methodology of lift traffic studies and manual and computer-aided lift system design;
- to develop an understanding of lift power and control systems; and
- to discuss maintenance and repair and to consider possibilities for the future in the lift industry.

Content

Many modern building projects require installation of lifts or other means of moving people vertically. An understanding of the equipment used for this purpose together with associated design skills is therefore a valuable attainment for professionals and managers engaged with the building industry. This unit is designed to provide that understanding of underlying principles and practice.

Outcomes

It is expected that students will acquire a knowledge of the relationships between buildings, building populations and the lift installation; regulations and standards affecting lift, escalator and moving walk installations in Australia; the elements and construction of vertical transportation equipment; lift power and control systems; and traffic analysis calculations.

Assignments will test the ability of students to apply the knowledge gained to the solution of practical problems in lift system design.

DESC 9172 **Building Asset Management**

6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr David Leifer. **Session:** SI Intensive. **Classes:** Lectures in intensive mode. **Prohibitions:** DESC9088.. **Assessment:** Two assignments each at 50%.

This Unit will examine the objectives of both private and public mass rental housing providers and consider the role that the built assets play. The buildings per se are a means to an ends, as well as a 'product' in their own right. This examination will involve financial considerations of capital and operating costs. Also, 'market' research needs to be considered to ensure that the 'customers get what they want' as their needs and circumstances change over time.

The second half of the course will look at the principles and practices of managing the fabric of housing. The mechanics of maintenance, and the background systems that have to be out in place in order to keep this aspect of operations under control.

The special considerations of Heritage buildings will be explored.

Aims

At the successful completion of this Unit students are expected to have an awareness of the internal and external factors that influence the management of mass housing, and be able to understand how these impinge on their own housing organisations. Students will be able to describe the 'functionality' of houses, and how they are supposed to work.

Students will be able to structure and implement Management Information Systems from asset registration through condition and maintenance schedules.

Objectives

At the successful completion of this unit students will have demonstrated:
- An understanding of the external drivers that impinge on both public and private housing combines.
- An understanding of the internal drivers that impinge on housing combines.
- An ability to describe to a lay-person how a house is intended to work.
- An ability to create a structured asset register, and to identify key assets.
- An ability to include condition, and maintenance task schedules, and so be able to map future capital expenditures to maintain the housing stock at an appropriate level.

Contribution of unit of study to its program

Option in the Facilities Management stream. Elective in other programs.

Student workload effort expected

Contact hours: 24hrs/Semester
Class preparation: 8.hrs/Semester
Assessment preparation: 46hrs/Semester

DESC 9174 **Theory and Practice of Digital Desgn**

6 credit points. Grad Cert Des Sc (Des Comp), Grad Cert Des Sc (Dig Media), PG Coursework Exchange. Dr Andy Dong. **Session:** Semester 1, Semester 2. **Classes:** Weekly lectures. **Prohibitions:** May not be counted with DESC 9139. **Assessment:** Three major assessments and one final research report.

NB: Permission required unless enrolled in the Design Computing or Digital Media stream. Enrolment numbers are limited by teaching resources.

Aims

Design computing is an interdisciplinary field that incorporates design, computing science and cognitive science. This unit of study provides a comprehensive and strategic overview of the theory and practice of design computing and digital media. The primary aim of this unit of study is to develop the student's knowledge of the fields of design computing and digital media and the disciplinary areas including: digital design representations, computational modelling of design processes, computer programming, and computer-mediated collaborative design, and their integration in a design studio environment. To add breadth to the students' knowledge, the course also introduces topics in the social contexts of design computing such as digital cultures, digital rights management, and intellectual property.

Objectives

- Develop a working knowledge of computing theory and practice on the tools and technologies supporting design computing and digital media through the implementation of useful systems;
- Research and critically analyse contemporary issues in digital design media as portrayed in mass communications and socio-political contexts through the critical analysis of digital media;
- Engage in a scholarly research towards the development of new knowledge on the reciprocal nature of design theory and computational tools for design practice through the production of a research report.

Generic attributes developed in this unit
This unit of study contributes principally to generic attributes in "Information and research literacy." The assessments require students to utilize the University's library for scholarly research, to read research material and apply the research method(s) described towards a research question, to produce written research-style reports, and to engage in a scholarly dialog during lectures with the lecturer and other students.

Contribution of unit of study to its program
Core in the graduate Design Computing and Digital Media programs

Student workload effort expected
Contact hours: 3hrs/per week
Class preparation: lhr/wk
Assessment preparation: 39hrs/semester

DESC 9175 **Web Design and Programming**
6 credit points. Grad Cert Des Sc (Des Comp), Grad Cert Des Sc (Dig Media), PG Coursework Exchange. Dr Andy Dong and Dr Kirsty Beilharz. **Session:** Semester 1, Semester 2. **Classes:** 3hrs/week. **Corequisites:** DESC 9174 or DESC 9139. **Prohibitions:** DESC 9123 and 9132 and 9140. **Assessment:** Three major assessments will be required to demonstrate the student's knowledge of information design, information architecture, layout principles, and programming for Web site design. Proportionate weight is given to aesthetic issues such as information design and page layout and technical issues such as programming style. Attendance and participation are part of the student's grade.
NB: Permission required unless enrolled in the Design Computing or Digital Media stream. Enrolment numbers are limited by teaching resources.
Aims
The aim of this class is to provide students with the ability and knowledge to independently design and produce multi-page Web sites with special attention toward information design, information architecture, and personalisation of the Web site experience. Using an HTML authoring tool and dynamic Web page authoring languages, this unit of study offers students a hands-on approach to designing multi-page, interactive Web sites. Students will design and program a dynamic Web site supporting multi-way communication experiences. By the
end of the unit of study, students will have designed and programmed a professional looking digital media infused Web site employing dynamic Web pages and Flash interface elements to create a personalised Web experience.
Objectives
- To design and program multi-page, dynamic Web sites using the industry's most current software packages;
- To assess and solve interface design issues using information design and information architecture principles and guidelines;
- To program static and dynamic Web pages using HTML and dynamic Web page programming languages by developing Web pages with interactive and digital media infused content;
- To create a visual identity for a Web site through strategic information design by authoring Web pages that are visually appealing; and
- To design an information architecture supporting personalised Web experiences by creating a user-driven, multipage Web site
Generic attributes developed in this unit
This unit of study emphasises the Communication generic attributes. Through a problem-based approach to studying Web Design and Programming, the students will "use various sources of information on precedents" such as Web design patterns and Open Source Web programming toolkits "to identify, criticise and utilise design concepts in a creative manner."
Contribution of unit of study to its program
Core for the Design Computing and Digital Media programs
Student workload effort expected
Contact hours: 3hrs/per week
Class preparation: lhr/wk
Assessment preparation: 39hrs/semester

DESC 9176 **Creative** Systems
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Prof John Gero. **Session:** Semester 1. **Classes:** 3hrs/week. **Corequisites:** DESC 9174 or DESC 9139. **Assessment:** tutorials, report in form of an essay, project with report.
Aims
Design involves the production of the descriptions of new artefacts both physical and virtual. Parametric systems produce designs that are predefined variants of a starting design. Creative systems produce designs that are novel to varying degrees. This unit introduces the concepts of computational creativity and how they can be applied to creative systems for design. A number of computational processes capable of generating novel and creative results will be presented and used. Students will be expected to obtain a knowledge of computational creativity and the
processes that can be used to produce novel and creative designs.
Objectives
- understand computational models of creative design;
- understand rule-based generative systems;
- understand evolution-based generative systems; and
- understand analogy-based generative systems.
Contribution of unit of study to its program
Core unit in the Design Computing program
Student workload effort
Contact hours: 3hrs/per week
Class preparation: 3hrs/wk
Assessment preparation: 39hrs/semester

DESC 9177 **Computer Supported Collaborative Design**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Andy Dong. **Session:** Semester 2. **AssumedKnowledge:** DESC9175. **Corequisites:** DESC 9174 or DESC 9139. **Prohibitions:** DESC9097. **Assessment:** Two major assessments will be required to demonstrate the student's knowledge of computer-supported collaborative design systems. Attendance and participation are part of the student's grade.
Aims
Design projects are increasingly relying on computer support for management. This unit of study covers the implementation and use of computer-supported collaborative design (CSCD) systems to solve a range of design management and collaboration issues in industry. The unit of study starts with a foundation in database management systems (DBMS) including the practical aspects of DBMS use with more theoretical aspects of database design methodologies and the internals of database systems. The unit of study then proceeds towards the analysis of the design and implementation of common CSCD
systems focusing on technical and organizational perspectives on CSCD systems.
Objectives
- To understand the design and implementation of computer systems to support synchronous and asynchronous, distributed, collaborative work by implementing components of a design collaboration portal;
- To assess the collaboration needs of a design organisation and the suitability of a CSCD system by analysing and reporting on a proposed CSCD system for a group of designers.
Generic attributes developed in this unit
Because this unit of study will involve a collaborative design project in order to establish a context for the unit of study, the students will work in teams. Working in teams will require students "to work with, manage and lead others in ways that value their diversity and equality." The inclusion of industrial case studies, organizational behaviour research, and social psychology research in this unit of study will expose students to how "scientific knowledge and reasoning" inform the design of collaboration systems.
Contribution of unit of study to its program
Core in the Design Computing stream
Student workload effort expected
Contact hours: 3hrs/per week
Class preparation: lhr/wk
Assessment preparation: 39hrs/semester

DESC 9178 **Computer Integrated Design**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr Mike Rosenman. **Session:** Semester 2. **Classes:** 3hrs/week. **AssumedKnowledge:** Any computer-aided design platform (e.g., AutoCAD, ArchiCAD, Micro station). **Corequisites:** DESC 9174 or DESC 9139. **Prohibitions:** DESC9096 and DECO1007. **Assessment:** 2 formative assessments and one summative assessment covering the initial stages of a design through tofinal presentation utilising the techniques covered in the course.
Aims
Design processes are complex because a statement of what is to be designed contains only part of the information needed to produce a design and does not specify the attributes of the required physical form of the object to be designed. This unit aims to give the student

an understanding of the concepts in the modelling and use of design information for use in computer systems through organisation of drawings and models, databases, data sharing and exchange, and standards. The information includes both
graphical and non-graphical information. By gaining an understanding of the concepts and principles of integrating computers into the design process, students will develop skills to produce original design elements by extending the capability of a computer-aided design system.
Objectives
- To extend existing skills in the use of an industry standard computer-aided design system;
- To develop an understanding of the need for the modelling of design information for use with computational systems to produce integrated and automated design systems;
- To gain an understanding of the concepts underlying the modeling, storage and use of design information including both graphical and non-graphical properties; and
- To acquire skills in using a commercial database system.
Generic attributes developed in this unit
Graduates will be encouraged to use information effectively by having
- to recognise the extent of information needed;
- to locate available information efficiently and effectively;
- to evaluate information and its sources;
Graduates will be able to create new knowledge and understanding through the process of research and inquiry through exercising critical thinking and judgement in creating new understanding.
Contribution of unit of study to its program
Core in the Design Computing program
Student workload effort expected
- Contact hours: 3hrs/per week
- Class preparation: 3hrs/wk
- Assessment preparation: 39hrs/semester

DESC 9179 **Ambient Visualisation with Devices**
6 credit points. Grad Cert Des Sc (Des Comp), PG Coursework Exchange. Dr Andrew Vande Moere. **Session:** Semester 2. **Corequisites:** DESC 9174. **Assessment:** Students will be required to write a research paper that will review current movements in physical computing or ambient display. In addition, students will design and build a physical computing device that represents data in an ambient manner. Part of the assessment will be based on design presentations that will focus on the level of technical execution, original design exploration, programming performance and visual aesthetics. Attendance and participation are part of the student's grade.
NB: Permission required unless enrolled in the Design Computing stream. Enrolment numbers are limited by teaching resources.
Aims
This course will introduce students to the principles of ambient information visualization and physical computing. Ambient display consists of aesthetic information representations that convey abstract data in the periphery of human attention, which is not necessarily limited to human vision. By incorporating creative design, typical issues of information communication become enriched by the focus on user experience and visual aesthetics. Students will be introduced to micro-controllers, sensors and actuators that are capable of sensing and controlling physical artefacts, and the relevant software tools, programming languages and networking protocols to drive these. Potential fields of application include, but are not limited to, wearable devices, smart rooms, ubiquitous sensor nodes, intelligent clothing, home automation, electrical appliance extensions or interactive furniture. By the end of this unit of study, students will have reviewed current movements in the related scientific fields and have designed, built and programmed a smart, physical artefact that conveys information. Using the principles of
multimodal visualization, these devices will trigger visual, auditory, tactile or olfactory human senses to represent data effectively to the user.
Objectives
- To design, prototype and program a working prototype of an ambient visualization using a physical, computer controlled device that is driven by data;
- To be aware of and utilize a diverse set of physical input, output, sensor, controller and network devices;
- To research current developments in the field of ambient visualization or physical computing
Generic attributes developed in this unit
Due to the advanced, sophisticated technical features of the software and hardware taught in this unit of study, the students will need to "be able to respond effectively to unfamiliar problems and contexts." The field of study itself will allow students to use ambient visualization with devices as "visual and other forms of communication to critique, negotiate, create and communicate understanding."
Contribution of unit of study to its program
Core for the Design Computing stream
Student workload effort expected
Contact hours: 3hrs/per week
Class preparation lhr/wk
Assessment preparation 39hrs/semester

DESC 9180 **Designing Virtual Worlds**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Prof Mary Lou Maher. **Session:** Semester 2. **Corequisites:** DESC 9174. **Prohibitions:** DESC9103. **Assessment:** - Tutorial submissions on studying human behaviour in virtual worlds, modifying existing worlds, programming behaviours in a virtual world, programming a softbot;- Design solution, reports, and presentations.
Aims
The aim of this unit of study is to introduce the basic techniques in designing and building virtual worlds for a variety of uses such as collaboration, entertainment, socialising, and education. The focus will be on the connection between the human activities supported and the virtual world infrastructure for supporting interactive, functional, multi-user environments. The outcome of the unit is to give students sufficient knowledge and hands on
experience on software tools for designing and implementing virtual worlds that they can build interesting environments that pay special attention to the fundamental attraction that draws people to virtual worlds.
Objectives
- To design an interactive virtual world for a specified activity;
- To create and compose the 3D models that comprise the world;
- To program the behaviours of the objects in the virtual world.
Generic attributes developed in this unit
This unit of study emphasises the Communication generic attributes. Through a problem-based approach to studying Web Design and Programming, the students will "use various source of information on precedents" such as MUDs and MMOGs "to identify, criticise and utilise design concepts in a creative manner."
Contribution of unit of study to its program
Core in the Design Computing program.
Student workload effort expected
Contact hours 3hrs/per week
Class preparation lhr/wk
Assessment preparation 39hrs/semester

DESC 9181 **Immersive Design Spaces**
6 credit points. Grad Cert Des Sc (Des Comp), PG Coursework Exchange. **Session:** Semester 1. **Corequisites:** DESC9174. **Assessment:** - Tutorial submissions on programming assignments and motion capture exercises;- Design solutions, reports, and presentations.
NB: Permission required unless enrolled in the Design Computing stream. Enrolment numbers are limited by teaching resources.
Aims
The aim of this class is to provide students with the ability and knowledge to make use of hardware technologies such as tactile display screens, passive and active stereo wall-sized displays, and motion capture suits to create immersive environments where ubiquitous and pervasive computing merge for users to design an expressive form. This class explores the continuum between physical space and digital space. Students will gain an understanding
of the techniques in connecting digital and physical experiences, programming skills in 2D and 3D graphical representations on a variety of display devices, and design principles for immersive spaces. Emphasis will be placed on hardware operation and programming to create expressive content. The unit develops the student's ability to conceptualize and build spaces which are neither fully synthetic nor fully physical.
Objectives
- To operate hardware associated with immersive environments such as tactile display screens, passive and active stereo wall-sized displays, and motion capture suits;
- To program the hardware to create a media design environment;
- To design a space which deepens the inhabitants' sense of place through immersion and/or for inhabitants to design expressive content;
Generic attributes developed in this unit
The unit of study will address generic attributes related to "Personal and Intellectual Autonomy" and "Communication." Owing to the sophisticated technical features of the software and hardware taught in this unit of study, the students will need to "be able to respond effectively to unfamiliar problems and contexts." Through the presentation of their works, the students will "make short oral presentations to explain and justify design proposals" and "use various source of information on precedents, and to identify, criticise

and utilize design concepts in a creative manner." Finally, students will prepare reports that refer to "background studies, reviews of precedents and literature."
Contribution of unit of study to its program
Core for the Design Computing program.
Student workload effort expected
Contact hours 3hrs/per week
Class preparationlhr/wk
Assessment preparation 39hrs/semester

DESC 9182 **Design Computing Graduate Studio**
12 credit points. Grad Cert Des Sc (Des Comp), PG Coursework Exchange. **Session:** Semester 1. **Corequisites:** DESC 9174. **Assessment:** - Tutorial submissions for programming, visualisation, and database tasks;- Design solutions, reports, and presentations.
Aims
The aim of the unit of study is to provide students the opportunity to design and implement a solution for a client selected from industry that requires a distributed, interactive, software system. The focus will be on the design and implementation of a solution to an industry need for supporting the communication, information sharing, and community building needs of the employees of a company.
Objectives
- To design a client-server solution to an industry need using the Internet protocols;
- To develop a visualisation of information and community needs as a front end client;
- To program the back end of the client system as a combination of software, files, and databases.
Generic attributes developed in this unit
Through reports and oral presentations to industry clients, the students will "make effective use of oral, written, visual and other forms of communication to critique, negotiate, create and communicate" their solution. They will "be able to make short oral presentations to explain and justify design proposals" and prepare "reports relating to designs, for example, about background studies, reviews of precedents and literature, criticism and interpretation of proposals."
Contribution of unit of study to its program
Core for the Design Computing program
Student workload effort expected
Contact hours: 6hrs/per week
Class preparation: 3hrs/wk
Assessment preparation: 39hrs/semester

DESC 9183 **Risk Management**
6 credit points. Grad Cert Des Sc (Sustainable Des), M Com, M F M, PG Coursework Exchange. Dr David Leifer. **Session:** S2 Intensive. **AssumedKnowledge:** DESC 9047. **Assessment:** Two assignments weighted 50% each. The first being formative, the second summative.
Aims
At the end of the Unit successful students will
- Have an ability to undertake a workplace risk identification study;
- Have an understanding of the process of prioritising risk;
- Have an ability to generate and assess risk management options and lead the discussion in the selection of the most appropriate management strategy;
- Understand the procedure necessary to assess risk, and the options available to control it;
- Be aware of the obligations on organizations with respect to OH&S in their workplaces;
- Understand the policies and processes that their organisation need to put in place to satisfy the legislation.

Objectives
- Students will be able to undertake an analysis of the areas of risk related to their organisation's workplaces having an impact on their missions and goals.
- Students will understand the process for assessing risk in terms of 'best practice'.
- Students will demonstrate their ability to present appropriate risk management options.
- Students will be aware of the Occupational Health & Safety regulations and will understand the impact of these on their workplaces.
- Students will be able to implement OH&S management procedures.

Generic attributes developed in this unit
- be able to identify, define and analyse problems and identify or create processes to solve them;
- be able to exercise critical judgement and critical thinking in creating new understanding;
- be able to critically evaluate existing understandings and recognise the limitations of their own knowledge;
- recognise the extent of information needed;
- locate needed information efficiently and effectively;
- evaluate information and its sources;
- understand economic, legal, social and cultural issues in the use of information;
- be able to respond effectively to unfamiliar problems in unfamiliar contexts;
- be able to identify processes and strategies to learn and meet new challenges;
- be independent learners who take responsibility for their own learning, and are committed to continuous reflection, self-evaluation and self-improvement;
- have a personal vision and goals and be able to work towards these in a sustainable way;
- understand and accept social, cultural, global and environmental responsibilities.
Contribution of unit of study to its program
Core in the Facility Management program
Student workload effort expected
Contact hours: 24hrs in intensive mode
Class preparation: 6hrs/wk
Assessment preparation: 24hrs/semester

PLAN 9010 **Planning Dissertation 1**
12 credit points. M U R P. Dr Nicole Gurran. **Session:** Semester 2, Semester 1. **Classes:** Independent study + 7 meetings. **Prerequisites:** WAM of 70 and completion of all core requirements: PLAN (9005 and 9020 and 9021 and 9027 and 9028 and 9031 and 9032 and 9044 and 9051). **Prohibitions:** PLAN 9018, ARCH (9031, 9045, 9046 or 9060).. **Assessment:** Students must present an approved research proposal within three weeks of the start of semester.
NB: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. This unit is for Masters of Urban & Regional Planning students only. It MUST be taken in conjunction with PLAN 9011 Planning Dissertation 2, either in the same or following semester.
Overview
The planning dissertation is a substantial piece of research conducted full time over one semester (by enrolment in PLAN 9010 and 9011), or part time over two semesters (by consecutive enrolment in these units). It takes the form of a document (up to 20,000 words) on an approved urban and regional planning subject of your choice. Students electing to do a stream in the MURP program must select a topic relevant to their chosen stream. There is also an option for students to prepare a shorter document suitable for publication in a refereed journal. The planning dissertation is an opportunity to advance your knowledge and skills in a particular area and so develop a "professional edge". For those intending to undertake further academic study, the dissertation also provides an opportunity for you to develop your research skills.

Objectives and learning outcomes
The objective of the dissertation is to allow you to develop higher order research and analytic skills by undertaking an in depth study of your own selection. The expected learning outcomes of the dissertation include the ability to:

- Think critically about a planning problem and develop an appropriate research methodology or analytical approach to address it;
- Identify and access appropriate sources of information, research and literature relevant to urban and regional planning issues;
- Undertake primary and secondary research;
- Present your findings in a way that demonstrates academic and professional competence.

Dissertation Guidelines
A dissertation generally includes:
- A literature review to delineate a problem or gap in knowledge;
- A statement of research aims or objectives, as well as research questions and / or hypotheses;
- Explanation of research methods;
- Presentation and analysis of data;
- Discussion of conclusions;
- An abstract.
Restrictions
Permission to continue the Planing Dissertation is subject to a satisfactory research proposal which must be approved by your supervisor by week 3 of semester.
Submission and Assessment
The assessment is based solely on the submission of your dissertation. The dissertation will be marked by two examiners (neither of whom will be your supervisor). Dissertations are due at the end of the first week of exams for the semester in which you are enrolled.

Note that only one submission is required for both Planning Dissertation 1 and 2. It is not possible to complete Dissertation 1 independent of Dissertation 2. Students who intend a shorter project should enrol in PLAN 9018 Planning Report.

PLAN 9011 **Planning Dissertation 2**
12 credit points. M U R P. Dr Nicole Gurran. **Session:** Semester 1, Semester 2. **Classes:** Independent or group study. **Corequisites:** PLAN 9010.. **Assessment:** Independent Dissertation of up to 20,000 words (100%).
NB: This unit is for Masters of Urban & Regional Planning students only. It MUST be taken in conjunction with PLAN 9010 Planning Dissertation 1, either in the same or preceding semester.
Overview
The planning dissertation is a substantial piece of research conducted full time over one semester (by enrolment in PLAN 9010 and 9011), or part time over two semesters (by consecutive enrolment in these units). It takes the form of a document (up to 20,000 words) on an approved urban and regional planning subject of your choice. Students electing to do a stream in the MURP program must select a topic relevant to their chosen stream. There is also an option for students to prepare a shorter document suitable for publication in a refereed journal. The planning dissertation is an opportunity to advance your knowledge and skills in a particular area and so develop a "professional edge". For those intending to undertake further academic study, the dissertation also provides an opportunity for you to develop your research skills.

Objectives and learning outcomes
The objective of the dissertation is to allow you to develop higher order research and analytic skills by undertaking an in depth study of your own selection. The expected learning outcomes of the dissertation include the ability to:

- Think critically about a planning problem and develop an appropriate research methodology or analytical approach to address it;
- Identify and access appropriate sources of information, research and literature relevant to urban and regional planning issues;
- Undertake primary and secondary research;
- Present your findings in a way that demonstrates academic and professional competence.

Dissertation Guidelines
A dissertation generally includes:
- A literature review to delineate a problem or gap in knowledge;
- A statement of research aims or objectives, as well as research questions and / or hypotheses;
- Explanation of research methods;
- Presentation and analysis of data;
- Discussion of conclusions;
- An abstract.

Submission and Assessment
The assessment is based solely on the submission of your dissertation. The dissertation will be marked by two examiners (neither of whom will be your supervisor). Dissertations are due at the end of the first week of exams for the semester in which you are enrolled.
Note that only one submission is required for both Planning Dissertation 1 and 2. It is not possible to complete Dissertation 1 independent of Dissertation 2. Students who intend a shorter project should enrol in PLAN 9018 Planning Report.

PLAN 9018 **Planning Report**
12 credit points. M T M, M U R P, M U R P. Dr Nicole Gurran. **Session:** Semester 2, Semester 1. **Classes:** Independent study + 7 meetings. **Prerequisites:** PLAN (9005 and 9020 and 9021 and 9027 and 9028 and 9031 and 9032 and 9044 and 9051). **Assessment:** Planning Report of approx 10,000 words (100%).
NB: Department permission required for enrolment. Submit an Independent Study Approval form, signed by your proposed supervisor, with your request to enrol. This unit is for Masters of Urban & Regional Planning students only. MURP students taking the Urban Design stream should enrol in ARCH 9060 Urban Design Report.
Content
The planning report is a substantial piece of research conducted over one semester. It takes the form of report (up to 10,000 words) on an approved urban and regional planning subject of your choice. Please note however that students electing to do a stream in the MURP program should select a topic relevant to their chosen stream.) The planning report is therefore an opportunity to advance your knowledge and skills in a particular area and so develop a "professional edge".

Objectives and learning outcomes
The objective of the planning report is to allow you to develop research and analytic skills by undertaking an in depth study of your own selection. The expected learning outcomes of the report include the ability to:
- Think critically about a planning problem and develop an appropriate research methodology or analytical approach to address it;
- Identify and access appropriate sources of information, research and literature relevant to urban and regional planning issues;
- Undertake primary and secondary research relevant to problems in planning practice;
- Present your findings in a way that demonstrates academic and professional competence.

Planning Report Guidelines
A planning report generally includes:
- A literature review to delineate a planning problem or gap in knowledge;
- A statement of research aims or objectives, as well as research questions;
- An explanation of research methods;
- Presentation and analysis of data;
- Discussion of conclusions.

Restrictions
Permission to continue the Planing Report is subject to a satisfactory research proposal which must be approved by your supervisor by week 3 of semester.
Submission and Assessment
Planning reports are due at the end of the first week of exams for the semester in which you are enrolled. The assessment is based solely on the submission of your planning report. The report will be marked by one examiner (NOT your supervisor).

PLAN 9031 **History and Theory in Urban Planning**
4 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. Dr Nicole Gurran. **Session:** Semester 1. **Classes:** Lectures, seminars, group work. **Assessment:** Three written assignments.
Objectives
This unit enables students to:
- Understand how the practice of urban and regional planning has evolved in Australia and interanationally, from the nineteenth century to the present;
- Appreciate different vies about the role of and outcomes of urban planning and of the planning profession;
- Recognise various cultural perspectives and needs relating to the natural and built environment, and the implications of these for planning practice;
- Undertake basic historical research about urban development and planning; and
- Access and engage with key sources of and planning literature and research.

Content
This unit examines how the legacy of urban planning history, ideas and theory can add to our understanding of contemporary practice. It focuses on three key debates that have dominated the profession since its inception. How should planning be conceptualised? What should be the normative goals of planning practice? What is the contribution of planning theory to practice? These debates are introduced through an historical examination of urban settlements, environmental management, and governance, both internationally and within Australia. The unit also explores key junctures in planning theory form the early city "visionarie" to contemporary postmodern critiques.
Outcomes
By introducing the historical origins and intellectual traditions of urban planning, the unit aims to prepare students for reflective professional practice or future academic research within discipline.

PLAN 9032 **Argumentation/Discourse-Plan Procedure**
4 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. Mr. Martin Payne. **Session:** Semester 2. **Classes:** Lectures and workshops. **Assessment:** Three assignments.
Objectives
The unit is concerned primarily with reasoning skills, in particular with constructing useful understanding and knowledge about practical planning situations. It is based on important educational objectives of the University, teaching basic conceptual knowledge, and how to use concepts in a practical and sound manner. Emphasis is given to developing skills with independents, creative and critical thinking, and to adopting a reflective approach for formulating and responding to practical planning problems.
Contents
This unit is in three modules.

- The first module begins by discussing various roles of theory in planning, and limitations with theory, "rational approaches", and considering planning as "problem-solving". The "wicked" nature of planning problems and the need for argumentation are developed.
- Planning arguments and stories are discussed, especially key concepts and structures, and their roles in constituting forms of practical understanding and the need for a critical and reflective practice is advanced. The forms of argument statements, statements of environmental effects, and development approvals. This module ends discussing the basic role of argumentation in professional and scholarly planning discourse.
- The final module is concerned with applications of argumentation concepts. In particular, attention is given to collaborative procedures and inclusionary discourse, and arguments in implementation and policy analyses. The roles of case studies in planning practice are discussed, along with requirements for formulating tractable tasks and envisaging study methods by which cases can be constructed. The unit ends by addressing skills involved in presenting simple arguments.

Outcomes

On completion of the study unit each student should be able to:
- Review and interpret planning documents in a critical and constructive manner;
- Use basic concepts relating to arguments and stories;
- Prepare basic reviews, arguments, stories and other forms of discourse;
- Formulate a basic topic for study, and prepare a short report on how such a study could be undertaken; and
- Make a short oral presentation.

PLAN 9045 **Economic Tools and Community Development**

6 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. A/Prof Peter Phibbs. **Session:** S2 Intensive. **Assessment:** Students will be assessed on the basis their ability to use key concepts and methods in undertaking practical projects. Assessment will be based on a student's ability to: critically analyse regional economic impact and project evaluation documents; undertake a literature review using a variety of sources; use the internet as a research tool; apply the main concepts of input-output analysis, economic and project evaluation (including discount rate, net present value, internal rate of return); and consider intangible items in economic evaluation.

Objectives

On completion of the unit students should be able to:
- critically review a cost-benefit analysis, a feasibility study, economic impact analysis and a social impact analysis;
- generate an economic development strategy for a region;
- analyse a regional planning policy; and
- understand the social and economic impacts of tourism.

Content

This specialisation unit is concerned with:
- project and program evaluation;
- economic and social impact analysis;
- regional planning and development; and
- assessment of benefits and costs, and justification for public funding

Outcomes

On completion of the unit students will be able to:
- apply theoretical concepts and methods to practical problem;
- think creatively and critically about planning issues;
- use the available computer and information technology; and
- apply technical skills in a sound and useful manner.

PLAN 9048 **Environmental Design and Planning**

6 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. Mr Payne and Mr Forwood. **Session:** S2 Intensive.

Objectives

The unit teaches knowledge and skills relevant to designing and planning the built environment. It engenders capability with designing buildings, places and urban form, having regard to a range of environmental design, planning and sustainability considerations.

Description

The unit covers a range of related concepts and topics:
- designing for user comfort, quality built environments, and sustainability;
-key environmental design factors (air flow and ventilation; natural and artificial lighting; solar provisions; noise; energy efficiency, waste management etc);
- urban ecology and landscapes;
- natural environments and urban systems;
- innovative hydraulic systems;
- sustainable architectural and urban design;
- social dimensions of environmental design;
- lighting public places for safety, amenity and enclosure;
- designing secure and manageable public places;
- implementing ESD with instruments, guidelines and approvals; and
- environmental studies and development approval.

Outcomes

The key attributes engendered by the unit are:
- to be able to use concepts and methods in a sound and creative manner;
- to be able to solve relevant design problems;
- to be able to apply appropriate technical skills and knowledge; and
- to be able to produce appropriate reports and designs.

PLAN 9049 **Development Project Planning and Des**

***** No info available for 2006.** ***

PLAN 9050 **Housing for Health (Advanced)**

6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Mr Col James. **Session:** S2 Intensive. **Classes:** Intensive mode. **Assessment:** 2 assignments and report (assignment 1: 10%, Assignment 2: 60%).

Objectives

By the end of this unit a student should:
- Have an understanding of recommended texts and reporting on health-housing theory;
- Be able to complete specific tasks in the measurement of performance of household plumbing and eletrical services and fittings against stated standards;
- Be familiar with Healthhabitat data sheets and logging into Healthhabitat analysis programs to deliver work sheets for licensed plumbers and electricians; and
- Be able to write a report specificlly analysing data, house fixing procedures and independent observations of other health risks, to give householders information on best household user practices and regular maintenance requirements.

Contents

This unit is an investigation of the housing characteristics fundamental to the healthy survival of babies (0-5 years) as a prerequisite for healthy family life. The focus is on nine healthy living practices: washing people; washing clothes; removing waste; improving nutrition; reducing crowding; separating people from animals, vermin or insects; reducing dust; controlling temperature; and reducing trauma. Upon completion of the basic Housing for Health unit, advanced and postgraduate students will select one of the nine healthy living practices for deeper research and investigation and presentation of a report.

Outcomes

The unit aims to demonstrate the health implications of housing design. Students will develop skills in the measurement analysis of design features which have health outcomes. The unit will also develop skills in reporting and communicating results and recommendations to householders.

PLAN 9051 **Urban Design and Development Control**

4 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. Mr Martin Payne. **Session:** Semester 1. **Classes:** Lectures, class discussions and presentations, site visits and monitoring and presentation of assignments. **Prohibitions:** PLAN9042. **Assessment:** Assignments.

Objectives

The unit aims to develop a professional standard of competence in the generation and implementation of urban design and development control policies and instruments; and to demonstrate a critical and reflective awareness of the philosophies, concepts and practice of urban design and development control.

Content

The unit focuses on the development of design arguments, the translation of preferred design outcomes into development control codes, the legal framework of development controls and the preparation of development control reports. The unit covers the technical areas of local traffic and pedestrian movement, environmental factors, such as sunlight and shade, wind and noise effects, together with the asesthetic considerations relevant to landscape and those elements of the built environment that give definition to the public realm.

Outcomes

Students should be able to prepare clear and concise planning documents with advocative and development issues, assess and report on the physical, social and economic impact of alternative urban design and development control strategies, and prepare and evaluate design proposals.

The unit is structured around a series of assignments that are designed to progressively develop the skills and knowledge essential to the achievement of a professional level of competence in the practice of urban design and development control.

PLAN 9061 **Planning Procedures**
6 credit points. Grad Cert Des Sc (Sustainable Des), Grad Cert U R P, M E S, M P M, M T M, M U R P, PG Coursework Exchange. Nicole Gurran. **Session:** SI Intensive, S2 Intensive. **Prohibitions:** PLAN 9020, PLAN9044. **Assessment:** There are three written assessment items. These are based on current case studies in the Sydney metropolitan area, and may be used for a portfolio of professional work.
NB: Enrolment numbers are limited by teaching resources. Permission required in semester 1 unless enrolled in Urban and Regional Planning
Aims
This unit aims to prepare you for professional practice as a strategic or development assessment planner. It focuses on social, economic and environmental principles for contemporary planning practice; and the legal frameworks for land use planning and environmental management in NSW.

Objectives
By the end of this Unit of Study you will:
- Understand the social, economic, and environmental principles underpinning contemporary planning practice.
- Appreciate key legal and institutional processes for environmental planning in Australia and internationally.
- Be familiar with the various planning state, regional, and local planning instruments in NSW, and understand when and how they apply to planning proposals.
- Be able to assess the social, economic, and environmental impacts of basic planning proposals, and identify appropriate processes to address these.
- Justify these recommendations in professional planning reports.
- Understand the principles, techniques and requirements for public participation in environmental planning and assessment.
- Understand the ethical responsibilities of land use planners, including respect for diversity and the importance of social equity, in guiding decision making processes and assessing planning proposals.
Contribution of unit of study to its program
This unit is a core subject in the urban and regional planning program, and a required subject for several other degree programs in the Faculty. The unit relates directly to PLAN9062 Planning Law, and unless students have extensive experience or knowledge of planning practice in Australia, Planning Procedures must be undertaken prior to enrolling in Planning Law or during the same semester.
Student workload
The unit is delivered intensively over 4 days.
Class preparation: 3 hours prior to each class
Assessment preparation: 60 hrs/semester

PLAN 9062 **Planning Law**
6 credit points. Grad Cert Des Sc (Sustainable Des), M E S, M P M, M T M, M U R P, PG Coursework Exchange. Adj A/Prof Mary-Lynne Taylor. **Session:** Semester 2. **Corequisites:** PLAN (9020 or 9061). **Prohibitions:** PLAN 9021. **Assessment:** three written reports.
Aims
To develop an understanding of planning law that enables competent professional practice in addressing a range of complex planning issues.
Objectives
Students will be able to prepare reports on practical planning issues that demonstrate:
- Knowledge of how planning intentions are implemented through policies, instruments and controls;
- Knowledge of how planning law shapes practice;
- Knowledge of instrumental arrangements and environmental planning procedures;
- Knowledge of the main characteristics of well-reasoned and well-structured documents;
- Awareness of the importance of evidence and argument in preparing planning proposals, for example, about planning instruments and development applications; and
- A general understanding of techniques for community consultation.
Generic attributes developed in this unit
The main generic attributes addressed are:
- to identify and formulate problems, and to envisage and enact processes in response to them
- to exercise critical thinking and judgement in creating new understanding
- to think critically, creatively and imaginatively
- to have an informed respect for the principles, values, methods and scope of their discipline, and the ability to question them
- to use information in critical thinking, making informed judgements, solving problem, and in constructing knowledge and arguments
Contribution of unit of study to its program
Core
Student workload effort expected
Contact hours: 2/week
Class preparation: 2 hrs/wk
Assessment preparation: 60 hrs/semester

PLAN 9063 **Foundations of Environmental Planning**
6 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. Mr Martin Payne. **Session:** Semester 1. **Classes:** Lectures and workshops. **Prohibitions:** PLAN 9027.
Objectives
The unit is primarily concerned with concepts relating to planning for natural and built environments. It emphasises conceptual knowledge, with examples and case studies to demonstrate the application of concepts in practice. Students are encouraged to think independently, creatively and critically in developing understanding and practical knowledge about environmental planning.

Contents
The unit is in three modules.
Concepts of the environment and environmental planning:
- Different environmental concerns and adapting issues (defense, sanitation, security, material wellbeing, hazards, civic functions, urban places, natural environments etc);
- The emergence of government with environmental reforms;
- Types of environmental studies, plans and planning instruments; and
- Urban form, access, densities and the distribution of activities.
Environmental Assessment:
- Environmental impacts - social, economic, natural etc;
- Theory and practice of environmental impact assessment;
- Recognition of the limitations with impact assessment, and possible remedies;
- Environmental studies and assessment statements;
- The structure of environmental arguments and impact statements;
- Procedures for preparing and assessing impact statements;
- Political and economic factors influencing environmental assessment;
- Case study- review of a major EIS.
Urban Development:
- Environmental studies, metropolitan planning and the roles of governments;
- infrastructure planning and urban form;
- differing perspectives on planned and natural environments;
- various roles of planning in managing urban growth and protecting the environment; and
- Case study - planned metropolitan growth.

Outcomes
On completion, each student will:
- understand the flexible and evolving forms of environmental planning;
- be able to review an environmental impact statement; and
- be able to prepare basic urban development plans.

PLAN 9064 **Land Use and Infrastructure Planning**
6 credit points. Grad Cert Des Sc (Sustainable Des), M E S, M P M, M T M, M U R P, PG Coursework Exchange. Mr Martin Payne. **Session:** S2 Intensive. **Classes:** Lectures and workshops. **Prohibitions:** PLAN 9028..
Objectives
The unit is primarily concerned with concepts relating to planning for natural and built environments. It emphasises conceptual knowledge, with examples and case studies to demonstrate the application of concepts in practice. Students are encouraged to think independently, creatively and critically in developing understanding and practical knowledge about environmental planning.

Contents
The unit is in three modules.
Concepts of the environment and environmental planning:
- Different environmental concerns and adapting issues (defense, sanitation, security, material wellbeing, hazards, civic functions, urban places, natural environments etc);
- The emergence of government with environmental reforms;
- Types of environmental studies, plans and planning instruments; and
- Urban form, access, densities and the distribution of activities.
Environmental Assessment:
- Environmental impacts - social, economic, natural etc;
- Theory and practice of environmental impact assessment;
- Recognition of the limitations with impact assessment, and possible remedies;
- Environmental studies and assessment statements;

- The structure of environmental arguments and impact statements;
- Procedures for preparing and assessing impact statements;
- Political and economic factors influencing environmental assessment;
- Case study- review of a major EIS.

Urban Development:
- Environmental studies, metropolitan planning and the roles of governments;
- infrastructure planning and urban form;
- differing perspectives on planned and natural environments;
- various roles of planning in managing urban growth and protecting the environment; and
- Case study - planned metropolitan growth.

Outcomes
On completion, each student will:
- understand the flexible and evolving forms of environmental planning;
- be able to review an environmental impact statement; and
- be able to prepare basic urban development plans.

PLAN 9065 **Urban Environment**
6 credit points. Grad Cert Des Sc (Sustainable Des), PG Coursework Exchange. Dr John Dee. **Session:** Semester 1. **Assessment:** Production of reports/assignments based on the field work.

Aims
1. To understand basic principles of ecology and environmental management
2. To apply principles of ecology and environmental management in assessing the impacts of urban development (including total life cycle) on environmental systems
3. To formulate strategies to manage this impact and enhance environmental quality, particularly with respect to:
- Conducting, managing, and evaluating environmental impact assessments
- Sustainable patterns of subdivision and urban design
- Sustainable building and construction
- Wise energy use, water and waste management
- Sustainable transportation
- Green cities / protecting and enhancing biodiversity

Professional opportunities or niche intended to fill
- Local government urban planning or environmental planning roles
- Regional, state and national government planning, conservation, and natural resource management agencies
- International conservation and environmental management organizations
- Consulting firms, including those that specialise in environmental assessment and management

Objectives
Field laboratory will
- Focus on the development of an assessment framework containing criteria against which issues/alternatives can be assessed in an ordered way dealing with logic and timing issues, policy issues, cost effectiveness and performance measures
- Enable students to understanding how political and economic pressures can influence environmental decision processes

Generic attributes developed in this unit
Critical thinking, ethical use of knowledge in socio-political context, accessing information, interpretation of scientific reports, report writing, communicating scientific information to the general public.

PLAN 9066 **International Planning Field Laborat**
***** No info available for 2006. *****

PLAN 9067 **Metropolitan Planning**
6 credit points. Grad Cert Des Sc (Sustainable Des), M T M, M U R P, PG Coursework Exchange. Prof Ed Blakely and Mr Martin Payne. **Session:** S2 Intensive. **Prerequisites:** PLAN 9027 and 9028.

Aims
Students will learn about:
- The roles of governments in metropolitan planning and implementing urban development policies;
- Planning for a range of infrastructure and for key urban activities;
- Implementation arrangements for public and private sector agencies; and
- Types of metropolitan plans and their relations with other instruments and policies.

Objectives
Each student will be able to:
- prepare a policy analysis on a planning issue that supports proposals and related actions;
- prepare a well organised report and make a short oral presentation on their analyses and proposals;
- conceptualise complex urban development situations;
- critically review and interpret literature, instruments, policies, plans etc; and
- conduct "field" investigations, and construct sound, contextual and practical knowledge (especially using stories and arguments).

Generic attributes developed in this unit
- Critical, independent and creative thinking;
- Ability to make informed, independent judgements about issues and responses to them;
- Capacity to a use a range of concepts and enact reflective practice;
- Capacity to construct useful understanding and practical knowledge;
- Ability to construct and scrutinise practical arguments;
- Work in teams, make short presentations;
- Ability to review documents and develop useful insights; and
- Ability to organise and conduct creative inquiry.

Student workload effort expected
Class preparation: 2hrs/wk
Assessment preparation: 60hrs/semester

Postgraduate coursework resolutions

Resolutions of the Senate

[These resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework courses, and the relevant Faculty resolutions.]

Master degrees, graduate diplomas and graduate certificates in the Faculty of Architecture

Section 1

1. Award of the master degree, graduate diploma or graduate certificate

(1) The following master degrees shall be awarded in the pass grade except where a candidate fulfils the requirements for award of the degree of master with honours:
Master of Architecture;
Master of Design Science;
Master of Facilities Management;
Master of Heritage Conservation;
Master of Urban Design;
Master of Urban and Regional Planning.

(2) The following graduate diplomas shall be awarded in the pass grade only:
Graduate Diploma in Architecture;
Graduate Diploma in Design Science;
Graduate Diploma in Facilities Management;
Graduate Diploma in Heritage Conservation;
Graduate Diploma in Urban Design;
Graduate Diploma in Urban and Regional Planning.

(3) The following graduate certificates shall be awarded in the pass grade only:
Graduate Certificate in Architecture;
Graduate Certificate in Design Science;
Graduate Certificate in Facilities Management;
Graduate Certificate in Heritage Conservation;
Graduate Certificate in Urban Design;
Graduate Certificate in Urban and Regional Planning.

2. Requirements for the master degrees, graduate diplomas and graduate certificates

(1) To qualify for the pass award candidates must:
(a) complete successfully units of study prescribed by the Faculty giving a total credit of:
(i) 96 credit points for such specified master degrees; or
(ii) 72 credit points for all other master degrees;
(iii) 48 credit points for a graduate diploma; or
(iv) 24 credit points for a Graduate Certificate; and
(b) satisfy the requirements for all other relevant by-laws, rules and resolutions of the University.

3. Specialisation
(l)The Master of Design Science, the Graduate Diploma in Design Science and the Graduate Certificate in Design Science may be taken in one of the following streams, and the stream shall be specified on the testamur:
audio design;
building;
building services;
design computing;
digital media;
facilities management;
illumination design; and
sustainable design.
(2)The Master of Design Science requiring 96 credit points may be taken in any two of the following streams, and the streams shall be specified on the testamur:
audio design;
building;
building services;
design computing;
digital media;
facilities management;
illumination design; and
sustainable design.
(3) The Master of Urban and Regional Planning may be taken without specialisation or may be taken in one of the following streams, and if taken with specialisation the stream shall be specified on the testamur:
heritage conservation;
housing studies; and
urban design.
(4) The Master of Architecture, Graduate Diploma in Architecture and Graduate Certificate in Architecture may be taken in one of the following streams, and the stream shall be specified on the testamur:
architectural history, theory and criticism *(admission suspended in 2005);* and
architectural design.
(5) The Master of Architecture requiring 96 credit points shall be taken with the following specialisation, which will be specified on the testamur:
architectural and urban design.
(6) The Master of Urban Design requiring 96 credit points shall be taken with the following specialisation, which will be specified on the testamur:
urban design and planning.

4. Requirements for the master degree with honours
(1) To qualify for the award of the master degree with honours a student must complete the honours requirements published in the Faculty resolutions relating to the program.

Resolutions of the Faculty

[These resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework courses, and the relevant resolutions of the Senate.]

Master degrees by coursework, graduate diplomas and graduate certificates in the Faculty of Architecture

Section 1

1. Admission to candidature
(1) An applicant for admission to candidature for the degree of master, graduate diploma or graduate certificate of Architecture (Architectural Design) or master of Architecture (Architectural and Urban Design) shall submit a portfolio of work indicating relevant design interests and capacities to the satisfaction of the stream coordinator and hold a professional degree in architecture.
(2) An applicant for admission to candidature for the degree of master, graduate diploma or graduate certificate of Urban Design shall submit a portfolio of work indicating relevant design interests and capacities to the satisfaction of the stream coordinator and:
(a) hold a professional degree in architecture or a degree in landscape architecture, urban planning or similar related field.
(3) An applicant for admission to candidature for a degree of master not otherwise specified shall:
(a) hold a Bachelor degree of the University of Sydney or hold qualifications deemed by the Dean to be equivalent; or
(b) hold or have qualified for the award of the graduate diploma; or
(c) hold or have qualified for the award of the graduate certificate with a Weighted Average Mark of at least 70 in all units attempted for the award.
(4) An applicant for admission to candidature for a graduate diploma not otherwise specified shall:
(a) hold a Bachelor degree of the University of Sydney or hold qualifications deemed by the Dean to be equivalent; or
(b) hold or have qualified for the award of the graduate certificate with a Weighted Average Mark of at least 70 in all units attempted for the award.
(5) An applicant for admission to candidature for a graduate certificate not otherwise specified shall:
(a) hold a Bachelor degree of the University of Sydney or hold qualifications deemed by the Dean to be equivalent; or
(b) furnish evidence which satisfies the Dean that he or she is qualified to enter upon the prescribed units of study.
(6) The number of students admitted to the programs may be limited in accordance with University policies depending on available teaching resources.

2. Units of study
(1) The units of study that may be taken for the degree are set out in Table G, the Table of graduate units of study, together with:
(a) credit point values;
(b) assumed knowledge, corequisites and prerequisites;
(c) the sessions in which they are offered;
(d) the units with which they are mutually exclusive;
(e) designation as core, optional or elective; and
(f) enrolment quotas and other restrictions on availability.
(2) A candidate shall complete the units of study prescribed by the Faculty for the relevant degree, graduate diploma or graduate certificate satisfying all requirements with regard to core, optional and elective units of study.
(3) Coursework shall consist of lectures and seminars together with such tutorial instruction, essays, exercises, practical work and assignments as may be prescribed by the Faculty.

3. Requirements for the pass master degree, Graduate Diploma and Graduate Certificate
(1) To qualify for the award of the Master of Design Science requiring 96 credit points at the pass level, a candidate must complete units of study selected from Table G, the Faculty's Table of graduate units of study, meeting the following requirements for two streams:
(a) the candidate must decide which of the two streams is primary, and meet the core and optional requirements for that stream as specified in the table of requirements; and
(b) the candidate must decide which of the two streams is secondary, and meet the core requirements for that stream as specified in the table of requirements.
(c) a unit that is common to the requirements of both streams may count towards the requirements for both streams, but may only count once in the total credit points for the degree.
(2) To qualify for the award of other master degrees requiring 96 credit points at the pass level a candidate must complete units of study selected from Table G, the Faculty's Table of graduate units of study, meeting the requirements specified in the table of requirements.
(3) To qualify for the award of other master degrees at the pass level a candidate must complete 72 credit points selected from Table G, the Faculty's Table of graduate units of study, meeting the requirements specified in the table of requirements for the relevant course.
(4) To qualify for the award of the Graduate Diploma at the pass level a candidate must complete 48 credit points selected from Table G, the Faculty's Table of graduate units of study, meeting the requirements specified in the table of requirements for the relevant course.
(5) To qualify for the award of the Graduate Certificate at the pass level a candidate must complete 24 credit points from Table G, the Faculty's Table of graduate units of study, meeting the requirements specified in the table of requirements for the relevant course.
(6) Candidates may substitute graduate units of study from outside the Faculty's Table of graduate units of study to the limits shown in the table of credits and substitutions for graduate units of study.

Table of requirements

	Grad Certificate			Graduate Diploma			Masters		
Course/stream	Min. Core	Min. Options	Max. Elective	Min. Core	Min. Options	Max. Elective	Min. Core	Min. Options	Max. Elective
Certificate, Diploma, Masters in Architecture									
Architectural Design	24	0	0	36	0	12	36	18	18
Architectural History, Theory & Criticism	24	0	0	24	0	24	24	24	24
Master of Architecture (Architectural and Urban Design)									
	-	-	-	-	-	-	**72**	**0**	**24**
Certificate, Diploma, Masters in Design Science									
Audio Design	18	6	0	24	18	6	24	18	30
Building Design	24	0	0	30	0	18	36	0	36
Building Services	18	6	0	24	12	12	36	12	24
Design Computing	18	6	0	36	12	0	48	18	6
Digital Media	18	0	6	36	6	6	36	18	18
Facilities Management	24	0	0	24	12	12	36	18	18
Illumination Design	24	0	0	36	6	6	36	18	18
Sustainable Design	18	6	0	24	12	12	24	18	30
Certificate, Diploma, Masters in Facilities Management									
	24	**0**	**0**	**24**	**12**	**12**	**36**	**18**	**18**
Certificate, Diploma, Masters in Heritage Conservation									
	18	**6**	**0**	**30**	**6**	**12**	**48**	**12**	**12**
Certificate, Diploma, Masters in Urban Design									
	18	**0**	**6**	**36**	**6**	**6**	**48**	**12**	**12**
Master of Urban Design (Urban Design and Planning)									
	-	-	-	-	-	-	**72**	**0**	**24**
Certificate, Diploma, Masters in Urban & Regional Planning									
	16	0	8	24	0	24	48	0	24
Heritage Conservation	-	-	-	-	-	-	48	18	6
Housing Studies	-	-	-	-	-	-	48	12	12
Urban Design	-	-	-	-	-	-	48	24	0

4. Requirements for the master degree with honours

(1) To qualify for the award of the master degree with honours candidates shall complete a 24 credit point dissertation either:

(a) within the credit point requirements of the pass degree; or

(b) in addition to the credit point requirements of the pass degree; and

(c) satisfy the requirements for the award of honours.

(2) All honours degrees shall be completed in addition to the credit point requirements of the pass degree except:

(a) Master of Urban and Regional Planning

(3) To qualify to enrol in the dissertation a candidate must have the approval of the program or primary coordinator, including having an agreed supervisor, and

(a) in degrees where honours is awarded within the credit points required for the pass degree, a candidate must have achieved a Weighted Average Mark of at least 75 in all other coursework required for the award of the degree; or

(b) in degrees where honours is awarded in addition to the credit points required for the pass degree, a candidate shall:

(i) have qualified for the award of the pass master degree; or

(ii) be a pass graduate of a master degree of the Faculty; and

(iii) have completed the pass degree with a Weighted Average Mark of at least 75.

(4) To satisfy the requirements for the honours degree a candidate must complete the dissertation with a grade of at least Distinction.

(5) A candidate who does not satisfy the requirements for the honours degree and who has not already graduated shall be awarded the pass degree.

5. Award of the certificate, diploma or master degree

(1) A candidate who enrols in the following semester in a higher level award course in the same embedded program will not graduate until the completion of the highest award attempted.

(2) A candidate who has completed the requirements for a course and who does not enrol in the following semester in a higher level embedded course in the same program will graduate from that course.

Section 2

6. Cross institutional enrolment

(1) Provided that permission is obtained in advance, the Dean may permit a student to complete a unit of study at another institution and have that unit credited to his/her course requirements, provided that:

(a) the unit of study content is not taught in any corresponding unit of study in the University; or

(b) the student is unable for good reason to attend a corresponding unit of study at the University; and

(c) the total credit points does not exceed the maximum allowable credit for the course as listed in the table of credits and substitutions.

7. Restrictions on enrolment

(1) Except with the permission of the Dean, a student may not enrol in units of study with a total value of more than 30 credit points in any one semester.

(2) Candidates may not enrol in undergraduate units of study.

8. Suspension of candidature

(1) Unless suspension of candidature has been approved by the Dean, a student is required to re-enrol each calendar year.

(2) A student who has completed units of study may, with the permission of the Dean, suspend candidature for up to two semesters. At the end of that time the student may reapply to extend the suspension for a maximum of another two semesters. After that time, or if extension is denied, the candidature will be deemed to have lapsed and the student shall be required to reapply for admission to the degree.

9. Re-enrolment after an absence

(l)Except where the Dean determines otherwise in any particular case, a candidate who re-enrols after an absence or a suspension of candidature for any period shall proceed under the by-laws and resolutions in force at the time of re-enrolment.

10. Satisfactory progress

(1) The Dean may require a candidate:

(a) to show good cause why he or she should be allowed to re-enrol in a unit of study which has been failed or discontinued twice; and/or

(b) to show good cause why he or she should be allowed to re-enrol in the Faculty if in any year of attendance he or she fails to gain at least 50 per cent of the credit points attempted.

11. Time limits

(1) A candidate for the master degree, graduate diploma or graduate certificate may proceed either full- or part-time.

(2)A11 candidates shall complete the requirements for the master degree, graduate diploma or graduate certificate no later than at the end of the tenth semester of candidature.

(3)All candidates must complete the requirements for the master degree, graduate diploma or graduate certificate within eight calendar years of first enrolment.

12. **Assessment**

(l)When a student is permitted to submit additional work other than on the grounds of illness or misadventure, and the temporary grade INC has been given, the maximum result that may be awarded is 50 Pass.

(2) (a) A student's Weighted Average Mark (WAM) shall be calculated using the formula:

$$WAM = \frac{\sum(M \times CPa \times CPw)}{\sum(CPa \times CPw)}$$

where M is the mark achieved, CPa is the credit points attempted and CPw is the credit point weighting of any given unit of study. The weighting is determined by the Faculty administering the unit.

(b) In the Faculty of Architecture, a weighting of 1 is given to junior units, 3 for senior units and 3 for Graduate units.

13. Credit transfer policy

(1) The total amount of credit that may be granted is listed in the table of credits and substitutions for graduate units of study.

(2) Candidates may receive credit for coursework previously completed in relevant fields of study and/or on the basis of prior non-credentialled learning or experience to the limits shown in the Table of credits and substitutions for graduate units of study provided that the credit is specified as equivalent to existing units of study in the Table of graduate units of study (except general electives and dissertation) for the degree, graduate diploma or graduate certificate;

(3) Credit shall not be granted for units of study completed more than 9 years prior to commencement.

(4) Credit shall not be granted for units of study gained with a "Concessional Pass" or equivalent.

(5) "Substitution" means credentialled learning from a recognised tertiary institution taken outside the Faculty's Table of graduate units of study, while enrolled in the relevant program, including study in another faculty and cross institutional study. In all cases the approval of the Associate Dean (Graduate Studies) must be sought before commencement of such study.

Table of credits and substitutions for graduate units of study

Award course Level	Maximum credit points	Credit Substitution
Master degrees	18*	12
Graduate diplomas	18*	12
Graduate certificates	12**	–

*Not more than 12 credit points of which can be credited towards the core unit requirements.

**Credit will be granted only for units from the Faculty's Table of graduate units of study completed prior to commencement of candidature as non degree study.

14. Transfer

(1) Subject to admissions criteria being met and there being available places, a candidate may transfer to any other graduate course or specialisation, with the approval of the Dean.

15. Supervision

(1) Every candidate for a postgraduate coursework award shall have a coordinator, who will advise and approve the candidate's program of study. The coordinator will be the program/stream coordinator and in the case of the 96 credit point Master of Design Science at the pass level, will be the coordinator of the primary stream.

16. Transitional provisions

(1) These resolutions shall apply to:

(a) persons who commence their candidature after 1 January 2005; and

(b) persons who commenced their candidature prior to 1 January 2005 and who elect to proceed under these resolutions.

(2) A candidate for the degree who commenced candidature prior to 1 January 2005 may complete the requirements in accordance with the resolutions in force at the time the candidate commenced, provided that the candidate shall complete the requirements by 1 January 2010 or such later date as the Faculty may, in special circumstances, approve.

6. Postgraduate research information

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Research Degrees

The Faculty of Architecture offers three research degrees, The Doctor of Science (Architecture), Doctor of Philosophy and the Master of Philosophy (Architecture). As well as the information in this book candidates should also acquire a copy of the Postgraduate Research Studies Handbook available free from the Student Administration Centre or on line (http://www.usyd.edu.au/fstudent/postgrad/study/pub/pg_hb03.shtml). The last year of publication for postgraduate handbooks was 2003. Never the less, they are an important resource for policies and practical advice relating to your candidature.

Master of Philosophy (Architecture) (MPhil(Arch))

The research master's program allows a candidate to undertake research and advanced specialisation in any of the areas of scholarship and research undertaken by the Faculty. Entry requirements for the MPhil(Arch) include a bachelor degree in a relevant discipline. The program is generally completed in four semesters full-time or eight semesters part-time. The final thesis for the Master of Philosophy (Architecture) is expected to be in the range of 30,000 - 60,000 words.

Doctor of Philosophy (PhD)

This research degree is awarded for a thesis considered to be a substantial, original contribution to the discipline concerned. Entry requirements include a research master's degree or a bachelor's degree with first or second class honours. Alternatively you may be admitted having passed a qualifying examination at an equivalent standard. This examination could be completion of a period of relevant advanced study and research towards a master's degree at The University of Sydney. The PhD is normally completed within eight semesters full time or 16 semesters part time. The final thesis for the Doctor of Philosophy (Architecture) is expected to be in the range of 50,000 - 80,000 words.

Doctor of Science in Architecture **(DScArch)**

This degree is awarded for published work which, in the opinion of the examiners, has generally been recognised by scholars in the field concerned as a distinguished contribution to knowledge or creative achievement. The candidate shall be a graduate of at least five years standing. If the candidate is not a graduate of The University of Sydney he or she must have been a full time member of academic staff of the University for at least 3 years or had a similar significant involvement in the teaching and research of the University. The university resolutions describing the degree appear at the end of this chapter.

Requirements of **your** candidature

All students are required to make timely progress with their research and to submit their theses on time. Students commencing from 2005 have the following maximum time limits:

PhD - full-time candidature: 8 semesters
PhD - part-time candidature: 16 semesters
MPhil - full-time candidature: 4 semesters
MPhil - part-time candidature: 8 semesters

It is important that you keep in regular contact with your supervisor, ideally meeting once a week especially during crucial periods of your candidature. To ensure that students progress satisfactorily, all research students are placed on probation for two semesters and are required to fulfil certain criteria. These are listed below. Once the requirements have been completed satisfactorily, candidature will proceed on a permanent basis.

Any change in candidature (such as suspension or change in supervisor) must be agreed with your supervisor and notified in writing to the Student Services Manager.

Disciplines

The Faculty of Architecture is a multidisciplinary faculty. Within the structure of the Faculty there are no formal Schools or Departments. However, to assist research students to maintain a close relationship to other students and academics of similar academic interest to them, a range of "disciplines" have been established. These are (with Discipline Head in parentheses):

- Architecture and Allied Arts (Professor Tom Heneghan)
- Architectural & Design Science (Associate Professor Warren Julian)
- Design Computing & Cognition (Professor John Gero)
- Environment-Behaviour Studies (Professor Gary Moore)
- Urban & Regional Planning & Policy (Professor Ed Blakely)

The disciplines are notionally under the leadership of the professor of the academic area, or senior associate professor, and usually closely involve research students, postdoctoral fellows and visiting scholars as well as academic staff of that discipline. Their purpose is to promote a stimulating and productive atmosphere for research and research students and to promote discussion amongst like-minded research students and academics about their own research and other contemporary topics. This is usually done through a regular weekly (or other period) research seminar.

As part of their probationary requirements, research students are expected to make a public presentation of their research topic, before the end of the first 12 months of candidature. The primary audience, apart from the supervisor, associate supervisor, and other academic staff and researchers with close interest in the subject, is students in the discipline. It is anticipated however, that such presentations are made known to the entire Faculty staff and research student body.

Disciplines have no official status for students and are not recorded on academic transcripts.

Students are directed to a discipline by the Student Administration Centre on the basis of the disciplinary interests of their supervisor. However, it is up to the student to take an interest in that group or any other group.

PhD Committee

A PhD Committee is established for each candidate during their probationary year and consists of your supervisor and one or more other members of the academic staff selected by your supervisor in consultation with you.
The role of the PhD Committee is to act both as a resource concerning PhD candidature and as an assessment committee for your probationary requirements. As part of the PhD Committee you need to select an associate supervisor, if one has not already been appointed.

Probationary requirements

The requirements for satisfactory completion of the probationary period include:
(a) the submission of a satisfactory Research Proposal to the candidate's PhD committee;
(b) the presentation of the Research Proposal to the candidate's committee at a public seminar;
(c) demonstration of adequate English language competency to the candidate's committee;
(d) completion of the unit of study ARCF 9001 Modes of Inquiry: Research and Scholarship in the first or second semester of enrolment;
(e) satisfactory completion of a structured first year as determined by the Associate Dean (Research) in consultation with supervisors in disciplinary areas;
(f) a recommendation from the candidate's supervisor, on the advice of the candidate's committee, that the probationary requirements have been met.

Further coursework

Students in Research degrees may include up to 24 credit points of coursework in their studies, including Modes of Inquiry. Students in the disciplinary groups of Environment-Behaviour Studies and Urban & Regional Planning & Policy are also required to complete the unit Nature of Theory in their first year of candidature. Students in other disciplinary groups are also encouraged to take the unit.

ARCF 9001 **Modes of Inquiry: Research & Scholarship**

6 credit points. M Phil (Arch), Ph D (Architecture). Prof. Gary Moore. **Session:** Semester 1. **Classes:** Contact time of one 3-hour lecture/seminar per week, plus ca 6 hours of individual study per week during the semester. **Assessment:** Assessment is based on (1) evidence of having done and understood the readings as evidenced by critical contributions to class discussions, and (2) a preliminary research proposal between 2500-3000 words and no more than 15 pages. (Final research proposals for partial satisfaction of probationary requirements will remain the responsibility of the student in association with your Supervisor.) In assessing submissions, attention will be placed on evidence of development in four areas: (1) grasp of the subject matter of different modes of inquiry, research approaches and research methods, (2) the organisation of knowledge about research and scholarship, (3) ability to critically evaluate methods used in studies and (4) original thinking regarding appropriate modes of inquiry and research methodology for the research problems and questions under investigation. All submissions are to conform to the style and format of the Publication Manual of the APA (latest ed.) or equivalent style guide in the discipline of the student. Students are expected to complete the unit without an incomplete and to have at least a credit grade.
NB: Permission required unless enrolled in a research degree. This unit is compulsory for all MPhil and PhD students in the Faculty of Architecture. It must be taken at the first opportunity.

Content

The unit Is a seminar with mini-lectures, presentations by members of the academic staff about research and scholarship methods in which they are most expert, critical review of readings, and discussions based on the seminar material, readings and research pre-proposals.

Objectives and Learning Outcomes

The purposes of this seminar are (1) to provide students with an understanding of different modes of inquiry and different ways of conducting research and scholarship relevant to the disciplines of the Faculty, which fall Into three clusters - computationally based methods, text-based methods and field-based methods - and include quantitative and qualitative approaches, scientific and post-modern approaches, and exploratory, confirmatory and developmental research. Specific methods explored will include experimental, laboratory and a variety of quasi-experimental, survey and ethnographic research approaches, text-, historical and archival-based scholarship, and computational axiom-, conjecture- and simulation-based approaches. Other purposes are (2) to introduce students to a range of practical skills for planning and conducting research and scholarship, and (3) to sharpen critical skills for reading, evaluating and interpreting research and scholarship. Upon successfully completing the seminar, students are expected to have an understanding of the range of modes of inquiry and methods of research and scholarship used across the disciplines associated with this Faculty. Readings from texts and other major readings will supplement the course.

ARCF 9002 **Nature of Theory**

6 credit points. M Phil (Arch), Ph D (Architecture). Professors Gary Moore, Edward Blakely and staff. **Session:** Semester 2. **Classes:** Contact time of one 2-3-hour seminar per week, plus ca 6-9 hours of student-directed work per week. Assessment: There will be one to two submissions (negotiable with each student to assure that the writing is appropriate to and useful for the stage you are in of your research), eg, a paper exploring the theoretical roots of the discipline in which the student is working, a paper critiquing one or more of the major theoretical directions that shapes the direction in the discipline of the student or the relevant major section on theory for your proposal or chapter(s) for your final thesis or dissertation. Assessment will be based equally on understanding of the readings and seminars as evidenced by class contributions, and the written submission. Topics are to be approved ahead of time. Papers are to conform to the style and format of the Publication Manual of the APA (latest ed.), MLA Style Guide, or equivalent style guide in the discipline of the student. Major readings will be drawn from major theoretical texts in the field, as well as from others suggested by visiting lecturers and/or students. Students are expected to complete the unit without an incomplete and to have at least a credit grade.
NB: Permission required unless enrolled in a research degree. Required unit for MPhil and PhD students in the EBS or URPP disciplinary groups.

Content

The purposes of this seminar are (1) to show research students how to trace the intellectual roots of their discipline and find the relevant theoretical literature in their field so that they can build their research thesis or dissertation on strong theoretical grounds, and (2) to provide research students with an understanding of the different theoretical perspectives and their philosophical presuppositions that underlie research in the disciplines covered by the Faculty (eg, initially but not limited to environment behaviour and society, and urban and regional planning and policy). The seminar will examine a number of different ways of conceptualising theory, and their philosophical presuppositions, and will look at a range of 'paradigms' and specific concepts. It will also look at a range of theoretical perspectives and specific theories pertinent to research in the disciplines of the Faculty. In the first years of offering, the focus will be on empirical social-science oriented field-based research, ie, research with a social empirical field component. The range of theoretical perspectives will include but not be limited to positivism, modernity and postmodernity, interactionalism, transactionalism and phenomenology, complex systems theory and chaos theory, and particular theories representative of each perspective. The seminar will also examine the philosophical nature of theory, the history and philosophy of science of theory, similarities and differences between explanatory and prescriptive theories and strategies for theory development, and will ask the question whether it is possible to have theories that are both explanatory that contribute to knowledge and normative that contribute towards policy, planning or design.

Objectives and Learning Outcomes

The primary objective is to enable research students to understand the theoretical roots of their discipline, to appreciate the similarities and differences between different theoretical stances to research appropriate in this Faculty, to examine the applicability of current theoretical directions and particular theories to architectural, environmental, and urban policy, planning, consulting and design, and to be prepared to use and develop specific theories in their own research work. Upon successful completion of this course, students are expected to have a critical understanding of the range of theoretic perspectives in use and capable of being in use across the disciplines associated with this Faculty and a deep critical understanding of the theoretical perspectives and particular theories appropriate for their own research.

DESC 9079 **Statistics in Environmental Design**

4 credit points. Grad Cert Des Sc (Sustainable Des), M Phil (Arch), PG Coursework Exchange. Dr Simon Hayman. **Session:** Semester 2. **Classes:** Lectures. **Assessment:** 1 assignment.
NB: Recommended for MPhil(Arch) and PhD students requiring statistical skills for their research.

Objectives

The unit aims to demonstrate the range of statistical tools that can be applied to the analysis of problems in environmental design and person-environment studies, to explore the appropriateness of data collection and analysis techniques, and to provide statistical support for research programs.

Content

Many problems in environmental design and person-environment studies require data collection and analysis. Many such data, especially those concerned with human response, can only be effectively analysed with statistics. This unit covers data gathering, descriptive, inferential and predictive statistics as well as an introduction to multivariate techniques. The use of computer-based tools is encouraged.

Outcomes

Students should be familiar with a range of statistical tools, be able to demonstrate the application of these tools to a problem in environmental design and/or person-environment studies and be able to utilise appropriate data collection and analysis techniques.
The assignment draws upon a research case study in either environmental design or person-environment studies for primary data. Data description, exploration and analysis will be carried out to find appropriate techniques for the research questions posed.

DESC 9105 **Neural Network Architecture and Applicat**

6 credit points. Grad Cert Des Sc (Sustainable Des), M Phil (Arch), PG Coursework Exchange. Dr David Gunaratnam. **Session:** Semester 1. **Classes:** Lectures and tutorials. Assessment: 3 assignments (2 x 30%, one 40%). Students have the option of selecting a problem, from a domain of interest to them, for the 40 per cent assignment.
NB: Recommended for research students

Objectives

The unit aims to:
- introduce students to a number of neural network computational models available for solving a variety of generic problems;
- explore and identify the existence of these generic problems in a number of application areas within different disciplines;
- investigate the different pre-processing techniques available for improving the learning and generalisation capabilities of neural networks;
- explore the different methods available for selecting the neural network model characteristics for a given application; and
- present the basis for a number of the leaerning algoithms available for some of the widely used neural network models.

Content

The unit is organised around the three main sections: neurak network basics, models and applications. The section on neural network basics include the features and classification of generic problems, the archi-

tecture of neural networks and learning paradigms. A number of well established neural network types such as Multilayer Perception, Radial Basis Function, Kohonen, Probabilistic and Generalised regression networks along with the associated learning algorithms are considered in the models section. The application section considers issues such as variables selection, pre-processing of data, network selection and, training and validating of neural networks. The unit also explores the latest developments and refinements to some of the well established models, particularly in the areas of pre-processing of data and learning algorithms.

Outcomes

At the completion of the course each student is expected to:

- have a good understanding of the characteristics and capabilities of a number of neural network models;
- be able to associate a problem in a given application area with a generic problem class and select an appropriate neural network model;
- be cognisant of the theoretical bases for the features available in a number of the neural network simulation tools;
- be familiar with the latest developments in neural network modelling procedures; and
- be able to develop neural network models for applications within their own disciplines.

The above outcomes provide the basis for the different assessment tasks.

Textbooks

StatSoft (1998). Statistica: Neural networks manual (On-line manual).
Bishop, C. M. (1995). Neural networks for pattern recognition, Oxford University Press, Oxford.
Smith, M. (1993). Neural networks for statistical modelling, Van Nostrand Reinhold, New York.
Masters, T. (1995). Advanced algorithms for neural networks: A C++ sourcebook, New York.
Haykin, S. (1994). Neural network: A comprehensive foundation, Macmillan College Publishing Company, New York.

Guidelines for your research proposal

The first year of the MPhil and PhD is probationary. You need to demonstrate that you are capable of carrying out doctoral- or master's-level research at The University of Sydney and to satisfy the probationary requirements listed in the Faculty resolutions and set by your supervisor. During this year students are expected to demonstrate the capacity to undertake research at a doctoral or master's degree level. This is done through the development, submission, presentation and assessment of a formal research proposal. The thesis research proposal is presented to your PhD committee. It is on the basis of your research proposal that your committee makes a recommendation concerning your continuing candidature.

The research proposal should be 7,000 to 12,000 words long (15-25 pages) and include the following:

(a) the area and focus of the proposed research, along with a set of aims and objectives and the importance of the research
(b) critical literature review that establishes the background of the proposed research and identifies gaps that this research proposal will address
(c) an indication of the ability to make progress with the research
(d) research plan including research design, details of methods, management plan and time lines tied to the objectives, and
(e) potential outcomes if the research is successful.

Your formal research proposal should demonstrate adequate language skills and your ability to successfully complete such a program. Research proposals will be presented at a public research seminar.

Criteria used to evaluate research proposals

The general criteria used to evaluate student research proposals are as follows:

(a) Are the aims and objectives clearly stated, feasible and consistent with the Faculty's research interests?
(b) Does the student demonstrate knowledge of the key areas of the research literature?
(c) Is the research plan viable?
(d) Is the proposed methodology sound and feasible?
(e) Do the potential outcomes merit the research proposal?
(f) Are there adequate resources available to enable the candidate to complete the proposed research?
(g) Do the proposal and its written and oral presentation indicate a satisfactory command of English, sufficient to enable the applicant to undertake MPhil or PhD research at The University of Sydney?

The major part of the research must be completed within the University, although a period of six months' leave may be granted by the Associate Dean (Graduate Studies) to enable fieldwork to be completed.

Annual progress report

You are required to submit a progress report annually (usually in October), regardless of when you commenced your candidature. This is reviewed by your supervisor and the Associate Dean (Research) and you will be notified of the result of this review, when any problem areas or training needs will be identified.

Interviews

During your first year, around the time of the annual progress review, you will be interviewed by the Associate Dean (Research) to discuss your general progress, facilities, resources, and supervision.

Suspension of candidature

If you need to suspend your candidature, you should put your request in writing (stating the reasons) to your supervisor, who will then make a recommendation via the Student Administration Centre to the Associate Dean (Research) for approval. A form for the purpose may be found on the Current Students page of the Faculty web site. You will receive written confirmation of the suspension. Suspension of candidature is by semester and except with the approval of the Associate Dean, you may suspend your candidature for a total of two full-time semesters only. During suspension your RTS (Research Training Scheme) scholarship will be suspended, as will scholarship payments. You will be granted an extension to your candidature equivalent to the length of the suspension. International students may be required to leave the country whilst their candidature is suspended and should seek advice from the International Office before taking any action.

Leave of absence

If you need to take a break from your research for less than a semester, a leave of absence may be granted. You should follow the same procedure as for suspension (see above). You will not be granted an extension to your candidature for a leave of absence but, you may, if not quite finished by the due date, apply for an extension equivalent to the length of absence.

Extension

If, at the end of your candidature, you need extra time to put the finishing touches to your thesis you may apply in writing for an extension. This should be sent to the Student Administration Centre in the first instance.

Research centres

AHURI Housing and Urban Research Centre

The AHURI Research Centre is a University-wide research centre housed in the Faculty. Concerned with the breadth of housing research concerns, current research is focusing on the socio-cultural, economic and health impacts of housing, the comparative assessment of housing worldwide and the analysis and development of Australian housing policy. Like all research centres in the Faculty, it offers the opportunity to carry out research towards the MPhil(Arch) or PhD under supervision of internationally recognised academic staff actively working on these and other research questions.

Ian Buchan Fell Housing Research Centre

Ian Buchan Fell, who died in 1961, left the income from his estate to the University for the promotion and encouragement of education and research on housing. The Centre is concerned with the needs of people relative to their housing. These needs are related to the complex interactions between people, their housing and other aspects of the built environment.

Planning Research Centre

The Planning Research Centre's main purpose is to further fundamental research into physical planning and development. It also

sponsors seminars in specialised fields, undertakes research and consultancy projects, runs professional development courses, and promotes the publication of research material. It has an active membership comprised of members of government and industry.

Key Centre of Design Computing and Cognition

The Key Centre of Design Computing and Cognition was established by the University with funding provided by the Department of Employment, Education and Training. The Key Centre's principal objectives are to improve the effectiveness and competitiveness of designers by providing better design decisions support through advanced computing technology. The philosophy of the Key Centre is to consider design as a discipline in its own right, requiring an interdisciplinary approach to its computational support. The Key Centre carries out teaching, research, development and consulting in the areas of design computing and design cognition. The Web site is at www.arch.usyd.edu.au/kcdc/.

Areas of research interest

The research interests of staff members fall into the following broad areas of internationally recognized research expertise:

Architecture and Allied Arts

For further information contact Professor Tom Heneghan (heneghan@arch.usyd.edu.au) or any member of the disciplinary group.

Architectural Education

Current work is concentrated on a study of construction and design teaching and on the learning preferences of students entering architecture. (Researchers: Purcell, Smith, Sodersten)

Architectural History, Theory and Criticism

Recent publications have been based on research in twentieth century Australian architecture, Asian art and architecture, French medieval architecture and theatre history. (Researchers: Armstrong, Heneghan, Hill, Howells, Margalit, Rubbo)

Heritage Conservation

Research has been undertaken on landscape conservation, cultural identity in international urban programs, conservation of render and decorative plasterwork, and facade retention. (Researchers: Howells, Lamb)

Architectural and Design Science

For further information contact Associate Professor Warren Julian (warren@arch.usyd.edu.au) or any member of the disciplinary group.

Audio and Acoustics

Research into acoustics includes auditorium acoustics, auditory perception, community noise assessment and environmental acoustics. Audio research includes alternative methods of controlling feedback in audio systems, analysis and synthesis of stereo and multichannel recording and reproduction systems, the establishment of acoustic criteria, and harmonic form in sound art. (Researchers: Cabrera, Fricke, Goldberg, Helyer, Theile)

Building Services

Research includes the study of factors determining healthy building interiors, indoor air quality and natural ventilation. (Researchers: Hein, Rowe)

Energy Conservation

Research includes the form and spacemaking potential of energy and environmental issues and the quality of those spaces created, the history of climatic design in Australia, the exploration of contemporary wind-catchers, the aerodynamic performance of traditional Indian architecture and the use of phase change storage materials in buildings. (Researchers: Forwood, Hayman)

Illumination

Research includes lighting and visual comfort models, day lighting and sky illuminance models, daylight perception. (Researchers: Hayman, Julian, Ruck)

Neural Networks

Research includes the application of neural networks to structural design and fire safety engineering. (Researcher: Gunaratnam)

Design Computing and Cognition

For further information contact Professor John Gero (john@arch.usyd.edu.au) or any member of the disciplinary group.

Agents in Design

Computational agents are active software that interacts with the environment. Current research relates to their use in creative design, virtual environments and web-related design. (Researchers: Gero, Maher)

Computational Models of Design

The development of models of case-based reasoning in design, emergence in design, qualitative representation and reasoning with shapes and objects, design grammars and creative design. (Researchers: Gero, Maher, Rosenman)

Computer-Mediated Collaborative Design

Research on computer-mediated collaborative design includes the development, use and effect of multi-user tools and techniques, models of collaborative design processes and communication and the behaviour of designers while designing with computer-mediation. (Researcher: Maher)

Design Cognition

Research on the cognitive studies of designers includes fixation, the role of protocol studies and the analysis of the information and cognitive structures which map onto human design activities. Research on the role of sketching in design includes the development of methodologies and the construction of experimentally-based models of the differing roles of sketching. (Researchers: Gero, Purcell)

Evolutionary Design

Research includes evolutionary systems in design, co-evolutionary design, genetic engineering applied to design, and biological development models applied to design. (Researchers: Gero, Maher, Rosenman)

Machine Learning in Design

Research on learning and representation in design includes constructive memory models of designing, situatedness in models of designing, and knowledge discovery in multimedia design cases. (Researchers: Gero, Maher, Rosenman)

Virtual Architecture

Research issues include the needs for and use of virtual places, models for the representation and design of virtual worlds, intelligent interfaces to virtual worlds and the role of the architecture metaphor in creating virtual places. (Researchers: Beilharz, Lee, Maher)

Environment-Behaviour Studies

For further information contact Professor Gary Moore (gt-moore@arch.usyd.edu.au) or any member of the disciplinary group.

Children, Youth and Environments

The development and testing of scales for the assessment of children's architecture, comparative evaluation of early childhood development centres worldwide and theories of child development and the socio-physical environment. (Researcher: Moore)

Environmental Experience, Perception and Cognition

Research on environmental experience, perception and cognition including preference and evaluation of the built environment, aesthetic assessment, perception, environmental quality and cultural identity. (Researchers: Lamb, Moore, Purcell)

Housing

Research on the socio-cultural, health and economic impacts of housing, methods for the comparative assessment of housing in Australia and policy issues in social including indigenous housing. (Researchers: Moore, Phibbs, Pholeros)

Urban and Regional Planning and Policy

For further information contact Martin Payne (martin® arch.usyd.edu.au) or any member of the disciplinary group.

Economic and Community Development

Research interests include the measurement of local and regional economic impacts, regional development and planning, computer applications in planning and measuring housing need, allocating government resources for low income housing and social impact assessment. (Researcher: Phibbs)

Planning Procedures

Research interests include: rural community planning; national parks and World Heritage areas; planning procedures in NSW; housing policy. (Researcher: Gurran)

Urban Development and Planning Theory and Practice

Research interests are primarily concerned with the preparation of planning arguments, especially in the area of urban development, local government and planning procedures. (Researchers: Payne)

Housing

Research interests include measuring housing need, the non-shelter impacts of housing, increasing the supply of affordable housing, policy issues in social housing, housing and social capital. (Researchers: Gurran, Phibbs)

e-Government

Research interests include examining the impact of impact of the Internet on the world of planning; Planning in a wired world; Local Government and the Internet; How planners can use the resources on the Internet to assist them. (Researcher: Phibbs)

Research degree resolutions

The Doctor of Philosophy is a degree of the University and follows the resolutions published in the University Calendar. The Master of Philosophy (Architecture) is a degree of the Faculty and follows the same general principles as the PhD, but has more specific Faculty requirements.

Master of Philosophy (Architecture)

Resolutions of the Senate

1. Admission requirements

An applicant for admission to candidature for the degree of Master of Philosophy (Architecture) shall:
(1) be a graduate of The University of Sydney or hold qualifications deemed by the Dean to be equivalent; and
(2) have completed any additional requirements at a standard acceptable to the Dean as set out in the Resolutions of the Faculty.

2. Requirements of the course

A candidate for a research degree shall proceed by research and submission of a thesis.

3. Time limits

(1) A candidate for the MPhil(Arch) must complete a minimum of two semesters full-time, or four semesters part-time.
(2) A candidate for the MPhil(Arch) has a maximum candidature of four semesters if full-time and eight semesters if part-time.

4. Award of the degree

(1) The Dean awards the degree whenever:
- (a) the examiners of a thesis have recommended without reservation that the degree be awarded and the Associate Dean (Graduate Studies) concurs; or
- (b) all of the examiners of a thesis have recommended the degree be awarded or awarded subject to emendations to all copies of the thesis which are to remain available in the University and the Associate Dean (Graduate Studies) concurs; or
- (c) the Dean accepts the recommendation of the Associate Dean (Graduate Studies) that the degree be awarded subject to emendations despite reservations expressed by one of the examiners.

(2) The Dean may permit an unsuccessful candidate to prepare for re-examination if, in the Dean's opinion, the candidate's work is of sufficient merit and the Associate Dean (Graduate Studies) has so recommended. The recommendation to permit a candidate to prepare for re-examination shall not be available for a thesis presented for re-examination.

Faculty resolutions - Master of Philosophy (Architecture)

1. Admission to candidature

The Dean may admit to candidature a person who has:
(1) qualifications equivalent to those required of a graduate of The University of Sydney;
(2) submitted a Statement of Research Interest in an area that the Faculty can supervise; and
(3) met the English language requirement as set by the Faculty.

2. Appointment of supervisor and committee

(1) The Dean shall appoint a member of the full-time or fractional academic or research staff of the department of the Faculty in which the candidate is proceeding towards a research master's degree to act as supervisor of the candidate for a research master's degree. The Dean may also appoint an associate supervisor who may be a member of the academic or research staff of the University, an Honorary Associate or a person with appropriate qualifications in another institution or organisation.
(2) For each candidate the Dean shall appoint a committee, on advice of the supervisor, to assist in the progress of the candidature prior to the presentation of the research proposal.

3. Probationary period

(1) A candidate for the MPhil (Arch) is on probation for a minimum of one semester and a maximum of two semesters.
(2) The criteria for satisfactory completion of probation include:
- (a) the submission of a satisfactory Research Proposal to the candidate's committee;
- (b) the presentation of the Research Proposal to the candidate's committee at a public seminar;
- (c) demonstration of adequate English language competency to the candidate's committee;
- (d) completion of the unit Modes of Inquiry: Research and Scholarship;
- (e) satisfactory completion of a structured first year as determined by the Associate Dean (Research) in consultation with supervisors in disciplinary areas; and
- (f) a recommendation from the candidate's supervisor, on the advice of the candidate's committee, that the probationary requirements have been met.

(3) A candidate who has not satisfied the probationary requirements at the end of 12 months will have the candidature terminated.

4. Satisfactory progress

(1) Once a year, the candidate will be interviewed by the Associate Dean (Research) and the relevant head of department (unless one is the supervisor) to discuss facilities, resources, and supervision. If arrangements are not satisfactory, the Associate Dean (Research) will advise on supervisory arrangements and facilities.
(2) Candidates are required to submit an annual progress report to the Associate Dean (Research). If progress is not satisfactory, the Dean may terminate the candidature.

5. Suspensions of candidature

(1) Candidates wishing to seek suspension of their candidature must seek formal permission to do so from the Dean.
(2) Except with approval of the Dean, a candidate for a research degree in the Faculty may only suspend candidature for periods totalling no more than two semesters.

6. Coursework

A candidate for the MPhil(Arch) is permitted or may be required to enrol in a maximum of 24 credit points of coursework.

7. Thesis requirements

(1) Not earlier than the minimum period of candidature, candidates proceeding by research shall:
- (a) lodge with the Faculty three copies of a thesis embodying the results of an original investigation carried out by the candidate;
- (b) state in the thesis, generally in the preface and specifically in the notes, the sources from which the information was derived, the extent to which the candidature has made use of the work of others and the portion of the thesis which is claimed to be original; and
- (c) not lodge as the candidate's work any work previously submitted for a degree of The University of Sydney or any other university, but may incorporate such work in the thesis, provided that the candidate indicates the work so incorporated.

(2) A thesis submitted for examination shall be accompanied by a certificate from the candidate's supervisor stating, whether in the supervisor's opinion, the form of presentation of the thesis is satisfactory.

8. Form of a thesis
(1) A thesis submitted for examination may be bound in either a temporary or permanent form.
(2) Temporary binding must be able to withstand ordinary handling and postage. The preferred form of binding is the "perfect binding" system; spring back, ring-back or spiral binding is not permitted.
(3) The cover of a temporarily bound thesis must have a label showing the candidate's name, name of the degree, title of the thesis and the year of submission.
(4) The requirements for permanent binding are given in the University's Statutes and Regulations, under the statutes governing the degree of Doctor of Philosophy.
(5) Following examination and emendation if necessary, at least one copy (The University of Sydney Library copy) of the thesis, on archival paper, must be bound in a permanent form.
(6) If emendations are required, all copies of the thesis which are to remain available within the University must be amended.

9. Examination of a thesis
For candidates proceeding by research the Dean shall appoint two examiners, at least one of whom shall be external to the University. The examiners shall report to the Dean.

Doctor of Philosophy

The PhD is a University degree and follows the resolutions of the Academic Board. They are printed in full in the Postgraduate Studies Research Handbook and may be found at www.usyd.edu.au/su/calendar

The Faculty has resolutions additional to those of the Academic Board:

Faculty resolutions

In addition to the resolutions of the Senate and Academic Board the Faculty resolves that:

1. Form of assessment
A candidate for a research degree shall proceed by research and submission of a thesis.

2. Admission to candidature
The Dean may admit to candidature a person who has:
(1) a master's degree or a bachelor's degree with first or second class honours;
(2) submitted a Statement of Research Interest in an area that the Faculty can supervise; and
(3) met the English language requirement as set by the Faculty.

3. Appointment of committee
For each candidate the Dean shall appoint a committee, on advice of the supervisor, to assist in the progress of the candidature prior to the presentation of the Research Proposal.

4. Probationary period
(1) A candidate for the PhD is on probation for two semesters.
(2) The criteria for satisfactory completion of probation include:
(a) the submission of a satisfactory Research Proposal to the candidate's committee;
(b) the presentation of the Research Proposal to the candidate's committee at a public seminar;
(c) demonstration of adequate English language competency to the candidate's committee;
(d) completion of the unit Modes of Inquiry: Research and Scholarship;
(e) satisfactory completion of a structured first year as determined by the Associate Dean (Research) in consultation with supervisors in disciplinary areas; and
(f) a recommendation from the candidate's supervisor, on the advice of the candidate's committee, that the probationary requirements have been met.
(3) A candidate who has not satisfied the probationary requirements at the end of two semesters will have the candidature terminated.
(4) A PhD candidate who has not satisfied the probationary requirements at the end of two semesters may be permitted to transfer their candidature to the MPhil(Arch).

5. Satisfactory progress
(1) Once a year, the candidate will be interviewed by the Associate Dean (Research) and the relevant head of department (unless one is the supervisor) to discuss facilities, resources, and supervision. If arrangements are not satisfactory, the Associate Dean (Research) will advise on supervisory arrangements and facilities.
(2) Candidates are required to submit an annual progress report to the Associate Dean (Research). If progress is not satisfactory, the Faculty may terminate the candidature.

6. Suspension of candidature
(1) Candidates wishing to seek suspension of their candidature must seek formal permission to do so from the Dean.
(2) Except with approval of the Dean, a candidate for a research degree in the Faculty may only suspend candidature for periods totalling no more than two semesters.

7. Coursework
A candidate for the degree of Doctor of Philosophy is permitted or may be required to enrol in a maximum of 24 credit points of coursework.

Doctor of Science in Architecture

Extract from The University of Sydney (Amendment Act) Rule 1999 (as amended)

Division 3: Higher Doctorates

65. Applicability of this Division
This Division applies to the following degrees:
(a) Doctor of Science in Agriculture
(b) Doctor of Agricultural Economics
(c) Doctor of Science in Architecture
(d) Doctor of Letters
(e) Doctor of Dental Science
(f) Doctor of Science in Economics
(g) Doctor of Letters in Education
(h) Doctor of Engineering
(i) Doctor of Laws
(j) Doctor of Medicine
(k) Doctor of Music
(1) Doctor of Science
(m) Doctor of Letters in Social Work
(n) Doctor of Veterinary Science.

66. Published works
(1) The Academic Board may, on the recommendation of the faculty or board of studies concerned, award the appropriate degree of doctor for published work which, in the opinion of the examiners, has been generally recognised by scholars in the field concerned as a distinguished contribution to knowledge or creative achievement.
(2) Without limiting the generality of Rule 66(1), the published work may be regarded as a distinguished contribution to knowledge if:
(a) it represents a significant advance in knowledge in its chosen field; or
(b) it has given rise to or is a major part of a significant debate in scholarly books and journals among recognised scholars in its chosen field; or
(c) it has directly given rise to significant changes in the direction of research or of practice of a newer generation of recognised scholars in its chosen field.

67. Application procedure
(1) An applicant for admission to candidature must satisfy the eligibility for admission criteria in Rules 68, 69 and 70 and be considered under the preliminary assessment procedure specified in Rule 72 before being permitted to enrol as a candidate for the degree.
(2) An applicant should submit to the Registrar:
(a) an application which states the degree being applied for; gives details of academic qualifications held; and gives details of association with the University;
(b) a list of the published work which it is proposed to submit for examination; and
(c) a description of the theme of the published work and, where there is a large number of publications whose dates range over a period of time and which contain some range of subject matter, a statement of how these are related to one another and to the theme.

68. Eligibility for admission
(1) An applicant for admission to candidature for the degree of doctor shall either have qualified for the award of a degree of The University of Sydney and have met the specific requirements of Rule 68(2), or shall satisfy the requirements of Rule 69.
(2)(a) An applicant for the degree of Doctor of Dental Science must have qualified for the award of the degree of Bachelor of Dental Surgery.
(b) An applicant for the degree of Doctor of Medicine must have qualified for the award of the degree of Bachelor of Medicine.

(c) An applicant for the degree of Doctor of Music must have qualified for the award of the degree of Bachelor of Music, or for the award of the degree of Bachelor of Arts including a three year sequence of courses in Music.
(d) An applicant for the degree of Doctor of Veterinary Science must have qualified for the award of the degree of Bachelor of Veterinary Science.

69. Awards to non-graduates

(1) The Academic Board, on the recommendation of the faculty or board of studies concerned, may admit as a candidate for the degree of doctor an applicant, not being a graduate of The University of Sydney, who:
(a) is either a graduate of another university or institution or is a person who is accepted by that faculty or board of studies and by the Academic Board as having standing equivalent to that required of a graduate of the University; and
(b) in the case of an applicant for one of the degrees of doctor referred to in Rule 68(2), is accepted by the faculty or board of studies concerned as having standing equivalent to that required in that Rule; and
(c) has been a full-time member of the academic staff of the University for at least three years, or has had such a similar significant involvement with the teaching and research of the University as the Academic Board, on the recommendation of the faculty or board of studies concerned, considers equivalent.

(2) A candidate admitted under Rule 68 must be a graduate of at least five years' standing before the degree of doctor can be awarded.
(3) A candidate admitted under Rule 69(1) must have held the qualification by virtue of which he or she was admitted for at least five years before the degree of doctor can be awarded.

70. Nature of work to be submitted

(1) The publications submitted for examination shall be a record of original research undertaken by the candidate, who shall state the sources from which the information was derived, the extent to which the work of others has been made use of, and the portion of the work claimed as original.
(2) The publications submitted for the degree of Doctor of Letters shall include at least one substantial work.
(3) A major musical work or works of the candidate's own composition may be submitted for the degree of Doctor of Music.
(4) If the publications submitted, whether published in the candidate's sole name or under conjoint authorship, record work carried out conjointly, the candidate shall state the extent to which the candidate was responsible for the initiation, conduct or direction of such conjoint research, however published.
(5) Where the principal publications, as distinct from any supporting papers, incorporate work previously submitted for a degree in this or in any other university, the candidate shall clearly indicate which portion of the publications was so submitted.

71. Preliminary assessment

(1) The dean of the faculty or chairperson of the board of studies concerned shall appoint, in respect of each application made, a committee normally comprising five persons being:
(a) the dean of the faculty or chairperson of the board of studies concerned;
(b) the head of the department and the professor most closely associated with the field of the applicant's work; and
(c) other persons appointed by the dean or chairperson.

(2) The committee shall consider whether the applicant is eligible for admission to candidature, whether the published work is in a field appropriate for the nominated degree and which the faculty is competent to examine at that level and, if so, shall make an assessment of the prima facie worthiness for examination of the published work in terms of Rule 66 of these resolutions.
(3) The committee, if it finds that a prima facie case exists, shall recommend to the faculty or board of studies concerned that it recommend to the Academic Board:
(a) the admission to candidature if not qualified under Rule 68; and
(b) the appointment of at least three examiners of whom at least two shall be external examiners.

(4) The Academic Board may appoint further examiners in addition to those recommended by the faculty or board of studies.

72. Enrolment

After the Academic Board has admitted the applicant, if necessary, and appointed examiners, the applicant shall submit to the Registrar five copies of the published work and of the description of the theme of the published work and shall enrol as a candidate at the next enrolment period.

73. Examination

(1) Each examiner shall make a separate report as to whether the published work meets the requirements as specified in Rule 66 of being generally recognised by scholars in the field concerned as a distinguished contribution to knowledge.
(2) The reports of the examiners shall be considered by the committee appointed under Rule 71(1) and a recommendation made to the faculty or board of studies concerned which shall take note of the terms of Rule 66.
(3) The faculty or board of studies may:
(a) recommend to the Academic Board that the degree be awarded;
(b) recommend to the Academic Board that the degree not be awarded;
(c) recommend to the Academic Board the appointment of a further examiner or examiners.

(4) In making its report to the Academic Board under Rule 73, the faculty or board of studies shall transmit the names of the examiners and the substance of their reports.
(5) The Academic Board shall determine the result of the candidature.
(6) On the award of the degree the Registrar shall lodge one bound copy of the published work with the University Librarian.

7. Study in the Faculty of Architecture

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Appeals against academic decisions

The university policy regarding student appeals against academic decisions can be found in both the Calendar and on the University's website, through the Central Policy Index. The desire of the University as expressed in the policy is that most problems be resolved informally at the local level between the student and the academic concerned. In cases where this is not possible the problem is escalated up the ranks until a resolution is achieved, firstly to the Head of School, then the Dean and so on. The objective is to resolve problems openly, fairly and to everyone's satisfaction.

There are many non-academic situations without such specific provision for appeal where you might wish to have a decision reviewed or to draw attention to additional information relevant to your case. As a general rule in these circumstances you are invited to address a request of this nature in writing, or to discuss the matter with, the relevant organisation (for example, the SRC or SUPRA) or University department (for example, Examinations, Scholarships, Financial Assistance). Advice may also be sought from the Student Administration Centre in the Faculty of Architecture.

Acoustics laboratory

This is a teaching and research laboratory with reverberant and anechoic test chambers and an extensive range of NATA certified measuring equipment plus computer systems for instrument control, audio and acoustic measurement, acoustic modelling and sound field simulation.

Audio recording and research studio

Located on level 1 of the Wilkinson building, this is a computer-based recording studio with acoustically isolated recording and control rooms. The studio is set up for music and voice recording and video sound post-production. The studio incorporates ProTools software.

Architectural and Technical Services Centre

The Faculty has well-established laboratories and items of equipment for teaching, student project work and graduate and staff research. These include the following laboratories: materials testing, ventilation modelling, object design, model making, manufacture and prototype construction as well as large models testing. There are also industry standard facilities such as heliodon, acoustics laboratory with anechoic and reverberant rooms, wind tunnel, mirror chamber skies, photometry, thermal environment, natural lighting, artificial skies and psychophysics laboratories.

Assessment and examinations

There are two formal examination periods in each year:

- Semester 1, around June, 2 weeks
- Semester 2, around November, 2 weeks.

In addition examinations may be set at other times and by various methods of assessment, such as essays, assignments, viva voce, practical work, etc.

Examination timetables

Draft timetables available via the Web (MyUni) approximately 3-4 weeks before the commencement of examinations.

Notification of examination results

The results of examinations are available via MyUni and posted directly to you at the end of each semester.

Disclosure of examination marks

Final marks will appear on your annual results notice. Marks may also be obtained from your department for the major components of assessment which make up the final marks. You are entitled to information about any details of the assessment procedures used to determine the final result.

Your examination scripts and any other assessment material may be retrieved within a reasonable time after the completion of assessment in each unit of study. This does not apply to examination papers which involve the repeated use of the same material in successive examinations.

Examination grades

See "Results" in the Glossary.

Assessment methods and posting of results

In Bachelor of Design, Bachelor of Design Computing and Bachelor of Architecture, a system of continuous assessment is applied in most units of study. In some, assignments are set during and at the end of the unit. Assessment by examination at the end of the unit of study is carried out for some units.

Supplementary work may be given to provide a student with a second chance to pass a unit of study. The opportunity to do supplementary work is granted only if the student's original work demonstrates that he or she has potential to perform satisfactorily (or has been seriously ill or had some other misadventure).

Students may be awarded the grades of High Distinction, Distinction or Credit for achieving a high standard in a unit of study. These grades provide the means of assessment for awarding scholarships and prizes, the selection of students who may enrol for the BDesign and BDesComp honours degrees and the award of honours in the BArch degree.

Final results for units of study are discussed by staff at a number of meetings, where extenuating circumstances, such as illness, are taken into account.

Assumed knowledge

There are no formal prerequisites for students wishing to enrol in the BDesign or the BDesComp. The degrees are, however, taught on the assumption that students will have successfully completed HSC 2 Mathematics, Advanced Mathematics and Advanced English or have the equivalent knowledge. Students who have not reached that standard will benefit from supplementary work in this discipline prior to the commencement of their degree. The Faculty offers a first year unit in Mathematics and Science for Architecture designed to bridge the gap for students who are weak in these areas. Alternatively, students can attend one of the bridging courses in mathematics offered by the Mathematics Learning Centre (phone (02) 9351 4061, or see the General University information chapter of this handbook), but are advised to discuss their plans with Dr Simon Hay man beforehand.

Attendance

Graduate and undergraduate students must attend all lectures and other classes required for a unit of study. Each unit has its own specific requirements for attendance, usually 90-100 per cent, without certification for illness or misadventure. If a student does not fulfil the attendance requirements as well as all other unit of study requirements, they may fail the unit. Design Practice and Design Studio require attendance at all sessions from week 1.

Audio Visual Centre

The Audio Visual Centre has a library housing an extensive film, video, slide and tape collection including an extensive digital media collection. It also has a wide range of equipment for use in the Centre or in the attached viewing theatre.

BArch - entry requirements

Although most students entering the BArch are proceeding from the BDesArch, the Faculty reserves some places for applicants who have academic standing equivalent to the BDesArch and who have degrees from other universities.

Admission to the program is competitive and is determined on the basis of academic record, a portfolio of design work, and work experience. Students should apply to the International and Admissions Coordinator, in the Architecture Student Administration Centre (not the Universities Admissions Centre or UAC). Applications should be received by the end of October prior to the year of enrolment (or by the end of May if applying for mid-year entry). It is essential that all applicants provide with their application form the original transcripts of previous study and details of work experience. Applicants will then be considered for entry and, if short listed, applicants may be asked to attend an interview with the Faculty's BArch Program Committee.

Building access or swipe card

After hours access to the Wilkinson Building, and access to the computer laboratories is by swipe card. Students are asked to pay a deposit, refundable when the card is returned. All students are automatically offered a swipe card in the first week or two of semester, via email to their university email accounts. Students who enrol late, or who require a replacement swipe card contact the Student Administration Centre (sac@arch.usyd.edu.au). Lost cards should be notified immediately to Security Services on (02) 9351 3487.

Change of degree program

If at any time you consider transferring to a different degree program within the Faculty, you should first consult your program coordinator. Further details can be obtained from the Student Administration Centre.

Computer facilities

Our computer labs are open 24 hours for enrolled students and are a great resource for teaching computer aided design, computer-aided presentation, digital media and the technical skills of programming and systems organisation and management in design computing. Our servers include Web servers, database servers, a virtual campus, and various virtual worlds. The labs contain networked multimedia computers and workstations with the latest technology in computer-aided design, and have links to university and external computer networks for access to the Internet.

Consumables fee (Tin Sheds Gallery and art studios)

Students choosing to study Art Studio electives may be asked to pay a consumables fee for materials that are necessary for the unit of study. Students may buy their own materials independently but are advised to purchase them through the Art Studios to save time and cost.

Credit from previous study

Students transferring from other disciplines or universities may receive credit for previous study according to the requirements of the degree and the rules governing credit for that degree. Undergraduate students are referred to the Resolutions of the Faculty for their degree listed in chapter 4, and graduate students are referred to chapter 5, of this handbook.

Darkrooms and plan printing equipment

Darkrooms, plan printing equipment and an artiscope are available for student use.

Disabilities adviser

The Faculty disabilities adviser is Ms Lesley Vanderkwast, of the Student Administration Centre. Students should also be aware of the disability and counselling services provided by the Student Services Unit, located in the Education Building. See "Student Services" in the General University Information.

Discrimination

The University is opposed to all forms of discrimination, including those based on sex, race, marital status, age, sexual preference, political or religious beliefs and physical impairment. State and Federal legislation supports this view. Discrimination can occur in various ways, including verbal and physical harassment. The Vice-Chancellor has appointed Discrimination Advisers to hear complaints from staff and students who suspect or believe that they are being discriminated against.

The Discrimination Advisers are available to discuss problems in confidence and to provide advice and assistance if the complainant wishes. Details are available from the Staff and Student Equal Opportunity unit website at www.usyd.edu.au/ eeo/ or phone (02) 9351 2212.

English language

Currently the IELTS score that you have to achieve before entering the Faculty is 7, with no band less than 6 (the TOEFL equivalent is 600). This is necessary to ensure that you can cope with the standard of teaching in the Faculty.

Enrolment confirmation

All the information provided when you enrol is added to the University's computerised student record system. This includes your degree, academic year and the units you are taking. It is important that this information be recorded correctly at the beginning of the year, and amended should a change occur in any of the details during the year. You are charged fees on the basis of your enrolment so it is in your interests to make sure this information is correct by 31 March and 31 August each semester.

To enable you to see what enrolment data has been recorded, you will be sent a final Student Financial Statement every semester. You should check this carefully. If the information is correct you should keep the statement as a record of your current enrolment. Should the statement be incorrect in any detail, you should advise the Faculty's Student Administration Centre promptly to have your record amended.

If you wish to:

- change a subject in which you are enrolled
- discontinue a subject
- discontinue enrolment totally

you should vary your enrolment via MyUni or apply at the Faculty's Student Administration Centre to obtain the appropriate approval. Your record at the University will not be correct unless you do this and you could incur a financial liability for tuition fees in units you have not sat. It is not sufficient to inform the teaching or tutoring staff that you discontinued a unit. Each semester, your enrolment must be finalised by 31 March or 31 August.

Enrolment - Suspension of candidature

Candidates may apply for suspension of their candidature due to any unforeseen circumstances. Applications should be made in writing to the Faculty's Student Administration Centre as soon as the decision to suspend has been taken, giving full details of the reasons for suspension and the period requested. The Faculty normally considers suspensions for two semesters only at a time. Once the period of suspension is over, students must re-enrol or apply for a further period of suspension. Failure to suspend your enrolment may result in you having to re-apply for entry to the program.

Enrolment Variations

A student may discontinue one or all units of study and have these shown as a non-failure on his or her record as set out below. He or she may also enrol in new units as replacements according to the following:

(7) *Withdrawal*

A candidate who discontinues enrolment in a first semester unit on or before 31 March, or in a second semester unit on or before 31 August, shall be recorded as having withdrawn from that unit of study.

(ii) Discontinuation

A candidate who discontinues enrolment in a unit of study after the census date but before the end of the lectures for that unit of study shall be recorded as "Discontinue Fail" unless the Dean, on grounds

of serious ill health or misadventure, determines that the discontinuation should be recorded as "Discontinued with Permission".

(Hi) Adding to enrolment
A student may not add to the total number of credit points of his or her enrolment after 31 March for Semester one or the 31 August for Semester two. In most cases, new units may not be added after the end of the second week of classes.

All variations to enrolment should be conducted online through MyUni or forwarded to the Faculty's Student Administration Centre staff.

Exclusion

Restriction upon re-enrolment
There are certain circumstances in which you could be asked to show "good cause" why you should be permitted to repeat any previously attempted study. In the Faculty of Architecture the most common reason is that a student has failed a required unit of study more than once.

The resolutions of the Senate restricting re-enrolment may be found in The University of Sydney (Coursework) Rule 2000 (see chapter 8) and under Faculty resolutions governing your degree. If you are in any doubt about your liability for exclusion following academic failure or discontinuation of units of study you should seek advice from the Student Services Centre.

It is not possible to define in advance all the reasons that constitute "good cause" but serious ill health, or misadventure properly attested, will be considered. In addition your general record, for example in other units, would be taken into account. In particular if you were transferring from another faculty your record in your previous faculty would be considered. Not usually acceptable as "good cause" are such matters as demands of employers, pressure of employment, time devoted to non-university activities, except if they may be relevant to any serious ill health or misadventure.

Laboratories

There are a number of lighting laboratories in the building. The photometric laboratory contains an optical bench (which also serves as a distribution photometer), an integrating sphere and numerous measuring instruments. The psychophysics laboratory has a dimmable lighting system for various experiments. A specialised teaching room is equipped with lamps, luminaires and other equipment and there is also a heliodon.

The Faculty has well-established laboratories and items of equipment for teaching, student project work and graduate and staff research. These include: materials laboratory, stress grading laboratory, ventilation model laboratory, small models laboratory, large models laboratory, services laboratory, heliodon, elementary and senior mechanics laboratories, anechoic room, acoustics laboratory, reverberant room, psychophysics laboratory, natural lighting laboratory, photometry laboratory, three artificial skies and a thermal environment laboratory.

Late submission and extension policy

In the interests of equity, the Faculty requires students to submit all assignments by the due dates, which are notified in the formal written information given to students for each unit of study.

This policy applies to all undergraduate and graduate coursework students in the Faculty. The Head of School is responsible for ensuring that this policy is applied consistently by all staff.

Late submission
It is expected that unless other arrangements have been made (e.g. through an application for Special Consideration), students will submit all assessment for a unit of study on the due date. If a student's preparation of a piece of assessment is impaired by the failure of Faculty or University supplied equipment (for example, a plotter printer not working) that student should obtain written verification of the failure from a relevant staff member and apply for an extension on the next working day. An extension will only be granted for a maximum period equal to the length of attested impairment (i.e. if you were impaired for three days, you may be granted an extension of up to three days). If the assessment is completed or submitted within the period of extension, no academic penalty will be applied to that piece of assessment.

If an extension is either not sought, not granted or is granted but work is submitted after the extended due date, the late submission of assessment will result in an academic penalty.

Work submitted for assessment after the deadline but up to three days (72 hours) late can achieve a maximum of 65 per cent of marks allocated for the assessment task (low Credit).

Work submitted after three days (72 hours+) but up to one week late (same deadline time and day one week later) can achieve a maximum of 50 per cent of marks allocated for the assessment task (minimum Pass).

Work submitted more than one week late (after deadline time and day one week later) but less than two weeks late can achieve a maximum of 45 per cent of marks allocated for the assessment task (Fail).

Work submitted more than two weeks late (after deadline time and day two weeks later) will not be assessed (Fail).

Extension
The Faculty of Architecture will only consider an extension if timely submission is prevented by:

- failure of University or Faculty equipment or service;
- postgraduate students whose employment places unusual demands on them at short notice (less than four weeks).

Library

Located on Level 4 of the Wilkinson Building, the Denis Winston Library is a branch of the University Library and is acknowledged as the largest and best architecture, architectural science, design science, planning and allied disciplines library in Australia. Students also have access to the other branch libraries and the main Fisher Library.

Participation in University governance

There is provision for the election of students, by and from the student body, to membership of the Senate, the Academic Board and the faculties and boards of studies. Student members are also to be found on other committees of the University, including faculty and departmental committees and boards.

The term of office is generally one year, from January to December, except the Senate which is from 1 December one year to 30 November the next. Elections are held by postal vote in October and notices calling for nominations are sent out in August/September. Details of the elections are placed on the notice boards on level 1 of the Wilkinson Building in August each year. Election announcements are also made available to Honi Soit and the Union Recorder for publication and are available from the Student Centre and faculty/college offices.
Before any election the appropriate ballot papers and instructions, as well as information about the candidates, are sent to all students concerned.

The Senate is the governing body of the University; the Academic Board coordinates the work of the faculties and boards of studies and advises the Senate on academic matters; the faculties and boards of studies are concerned with the teaching and examining of their subjects and with research in the various departments and schools.

The important contribution that students can make to the governance of the University is recognised through student membership of its governing bodies. As a student you are urged to take an active part in the selection of student members by nominating candidates and by voting in each election that concerns you. By participating in these elections you can become more familiar with the functioning of the University and can help ensure that your interests are taken into consideration in decisions that affect your work at the University.

Plagiarism and academic honesty

Academic honesty is a core value of the University. The University is committed to the basic academic right that students receive due credit for work submitted for assessment. Integral to this is the notion that it is clearly unfair for students to submit work for assessment that is not their own and which is not attributed to the original authors. This is known as plagiarism. Such activity represents a form of fraud. The Academic Board Resolution on Academic Honesty in Coursework sets out principles, procedures and a code of practice for academic honesty in submitted work in the University. This document is available at http://www.usyd.edu.au/policy/ (http://www.usyd.edu.au/policy/)

Professional qualifications

Graduates who hold the degree of Bachelor of Architecture will be entitled to registration as architects under the Architects Act 1921 (NSW), subject to obtaining two years of approved practical experience, at least twelve months of which must be subsequent to graduation, and passing an architectural practice examination before registration.
Application for registration may be made to the NSW Architects' Registration Board, "Tusculum", 3 Manning Street, Potts Point, 2011.

Students are eligible for student membership of the Royal Australian Institute of Architects. Student members receive each issue of Architecture Australia, the New South Wales chapter Bulletin, and the RAIA News. They may also attend Institute functions.

Admission to Associate Membership of the Royal Australian Institute of Architects is based on two years' approved practical experience.

Scholarships and prizes

A large number of scholarships and prizes for the Faculty of Architecture are awarded by the Faculty on the basis of academic merit.

Special consideration policy

Students who have a serious illness or who have experienced misadventure which may affect their academic performance in a course or unit of study may request that they be given special consideration in relation to the determination of their results. It should be noted that brief illness or minor misadventure will not warrant special consideration unless it prevents the student submitting an assessment by the due date, attending an examination as scheduled or attending a compulsory class. Occasional brief illness is not regarded as sufficient to explain poor performance where work has been completed, nor does it justify failure to produce work as soon as the illness is past. Applications for special consideration may be made in respect of any or all factors which contribute to assessment in a unit of study, including assessment tasks, examinations and attendance requirements.

Please note that the application for special consideration must be submitted within seven (7) days of the due date of the assessment or examination for which consideration is being sought. No application received after this period has lapsed will be accepted unless exceptional circumstances (e.g. hospitalisation), for which documentation must be provided, have prevented timely application.

The Faculty of Architecture Guidelines for Application for Special Consideration (www.arch.usyd.edu.au) must be read in conjunction with the Academic Board Resolutions: Assessment and Examination of Coursework, Part 5 - Special consideration due to Illness or Misadventure, which may be viewed at http://policy.rms.usyd.edu.au/OOOOOag.pdf (http://policy.rms.usyd.edu.au/OOOOOag.pdf)

Special consideration policy and forms are available from the Student Administration Centre or the Current Students pages of the Faculty of Architecture website (http://www.arch.usyd.edu.au).

Student projects

Although a student's work which is carried out as an assignment during the course will normally be returned, it should be noted that the Faculty has the right to keep all work which may be used for exhibition or publication. It remains the responsibility of every student to safeguard his or her work to prevent damage or loss, particularly at the end of semester when studios are cleaned out. Students are advised to keep all the graphic material related to their design work in a portfolio for future use as required.

Student Administration Centre

The Centre provides friendly confidential advice on student issues such as enrolment, suspensions and annual progress. Advice on academic matters (e.g. assessment deadlines) should be addressed to individual members of academic staff or the Academic Support Centre in Room 353. All matters to do with your enrolment should be dealt with at the Architecture Student Administration Centre on level 2 of the Wilkinson Building.

Study options after completion of the BDesArch and BDesComp

Upon completion of the BDesArch degree there are several options available to students for further study within the Faculty of Architecture. Students enrolled on the BDesArch or BDesComp may consider applying for graduate study, provided they have achieved the appropriate qualifications and taken the specific prerequisite units of study. A list of all the Faculty's degrees is given at the front of this Handbook, but for more information, please consult the Faculty's Graduate Prospectus or the Student Admissions Coordinator in the Student Administration Centre.

Sydney University Architecture Society

The Sydney University Architecture Society is run by the students to promote student interaction both within and outside the Faculty through a variety of activities, which includes participation in Faculty and departmental committees, inter-faculty sporting competitions, guest lectures, a faculty newspaper, the Architecture Ball and the Architecture Revue.

Every undergraduate student in the Faculty is automatically a member of the Society - part of the SRC subscription paid by each student is allocated to the Society, which uses the money to promote activities. Messages for SUAS may be left in the Faculty's Academic Support Centre

Timetables

Individual student timetables are available via the Web on MyUni to all students from Orientation week. The Faculty also publishes a general timetable on notice boards at the Student Administration Centre and on its website. It should be noted that the timetable changes frequently before semester starts.
Keep an eye on your email at the start of semester for late breaking news about classes.

Units of study

The University reserves the right to discontinue or vary such units of study, arrangements or staff allocations at any time but will make every effort to inform students accordingly.

Upgrade of candidature

Students who have completed the Graduate Certificate requirements and have a Weighted Average Mark (WAM) of at least 70, may apply to be upgraded to the Graduate Diploma or Masters version of their program. Graduate Diploma students may also be considered for upgrading to Masters. Applications should be made to the Admissions Coordinator in the Student Administration Centre, during pre-enrolment.

Work visits

Some units of study include work or site visits to places of interest for first-hand observation. Details of these works visits will be given during classes. Where works visits are a normal part of a unit of study, this is indicated in the unit description. Other units of study may involve field work or a community project outside the University grounds. In all cases students are covered by insurance on these site visits: undergraduate students are covered by Sydney University Sport and graduate students by the Sydney University Postgraduate Representative Association (SUPRA) through payment of compulsory subscriptions. Details are available on the Faculty of Architecture website.

University of Sydney (Coursework) Rule 2000 (as amended)

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Approved by: Senate on 4 December 2000
Date of effect: 1 January 2001

Latest amendment approved by: Senate on 3 December 2001
Date of effect: 1 January 2002

Preliminary

Rules relating to Coursework Award Courses

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University of Sydney (Coursework) Rule 2000 (as amended)

Preliminary

1. Commencement and purpose of Rule

(1) This Rule is made by the Senate pursuant to section 37(1) of the University of Sydney Act 1989 for the purposes of the University of Sydney By-law 1999.

(2) This Rule comes into force on 1 January 2001.

(3) This Rule governs all coursework award courses in the University. It is to be read in conjunction with the University of Sydney (Amendment Act) Rule 1999 and the Resolutions of the Senate and the faculty resolutions relating to each award course in that faculty.

Rules relating to coursework award courses

1. Definitions

In this Rule:

award course means a formally approved program of study which can lead to an academic award granted by the University.

coursework means an award course not designated as a research award course. While the program of study in a coursework award course may include a component of original, supervised research, other forms of instruction and learning normally will be dominant. All undergraduate award courses are coursework award courses.

credit means advanced standing based on previous attainment in another award course at the University or at another institution. The advanced standing is expressed as credit points granted towards the award course. Credit may be granted as specific credit or non-specific credit.

specific credit means the recognition of previously completed studies as directly equivalent to units of study;

non-specific credit means a "block credit" for a specified number of credit points at a particular level. These credit points may be in a particular subject area but are not linked to a specific unit of study; and

credit points means a measure of value indicating the contribution each unit of study provides towards meeting award course completion requirements stated as a total credit point value.

dean means the dean of a faculty or the director or principal of an academic college or the chairperson of a board of studies.

degree means a degree at the level of bachelor or master for the purpose of this Rule.

embedded courses/programs means award courses in the graduate certificate/graduate diploma/master's degree by coursework sequence which allow unit of study credit points to count in more than one of the awards.

faculty means a faculty, college board, a board of studies or the Australian Graduate School of Management Limited as established in each case by its constitution and in these Rules refers to the faculty or faculties responsible for the award course concerned.

major means a defined program of study, generally comprising specified units of study from later stages of the award course.

minor means a defined program of study, generally comprising units of study from later stages of the award course and requiring a smaller number of credit points than a major.

postgraduate award course means an award course leading to the award of a graduate certificate, graduate diploma, degree of master or a doctorate. Normally, a postgraduate award course requires the prior completion of a relevant undergraduate degree or diploma.

research award course means an award course in which students undertake and report systematic, creative work in order to increase the stock of knowledge. The research award courses offered by the University are: higher doctorate, Doctor of Philosophy, doctorates by research and advanced coursework, and certain degrees of master designated as research degrees. The systematic, creative component of a research award course must comprise at least 66 per cent of the overall award course requirements.

stream means a defined program of study within an award course, which requires the completion of a program of study specified by the award course rules for the particular stream, in addition to the core program specified by award course rules for the award course.

student means a person enrolled as a candidate for a course.

testamur means a certificate of award provided to a graduate, usually at a graduation ceremony.

transcript or **academic transcript** means a printed statement setting out a student's academic record at the University.

unit of study means the smallest stand-alone component of a student's award course that is recordable on a student's transcript. Units of study have an integer credit point value, normally in the range 3-24.

undergraduate award course means an award course leading to the award of an associate diploma, diploma, advanced diploma or degree of bachelor.

2. Authorities and responsibilities

(1) Authorities and responsibilities for the functions set out in this Rule are also defined in the document *Academic Delegations of Authority*. The latter document sets out the mechanisms by which a person who has delegated authority may appoint an agent to perform a particular function.

(2) The procedures for consideration of, and deadlines for submission of, proposals for new and amended award courses will be determined by the Academic Board.

Division 1: Award course requirements, credit points and assessment

3. Award course requirements

(1) To qualify for the award of a degree, diploma or certificate, a student must:

(a) complete the award course requirements specified by the Senate for the award of the degree, diploma or certificate concerned;

(b) complete any other award course requirements specified by the Academic Board on the recommendation of the faculty and published in the faculty resolutions relating to the award course;

(c) complete any other award course requirements specified by the faculty in accordance with its delegated authority

and published in the faculty resolutions relating to the award course; and

(d) satisfy the requirements of all other relevant by-laws, rules and resolutions of the University.

4. Units of study and credit points

(1)

(a) A unit of study comprises the forms of teaching and learning approved by a faculty. Where the unit of study is being provided specifically for an award course which is the responsibility of another faculty, that faculty must also provide approval.

(b)Any faculty considering the inclusion of a unit of study in the tables of units available for an award course for which it is responsible may review the forms of teaching and learning of that unit, may consult with the approving faculty about aspects of that unit and may specify additional conditions with respect to inclusion of that unit of study.

(2) A student completes a unit of study if the student:

(a) participates in the learning experiences provided for the unit of study;

(b) meets the standards required by the University for academic honesty;

(c) meets all examination, assessment and attendance requirements for the unit of study; and

(d) passes the required assessments for the unit of study.

(3) Each unit of study is assigned a specified number of credit points by the faculty responsible for the unit of study.

(4) The total number of credit points required for completion of an award course will be as specified in the Senate resolutions relating to the award course.

(5) The total number of credit points required for completion of award courses in an approved combined award course will be specified in the Senate or faculty resolutions relating to the award course.

(6) A student may, under special circumstances, and in accordance with faculty resolutions, be permitted by the relevant dean to undertake a unit or units of study other than those specified in the faculty resolutions relating to the award course and have that unit or those units of study counted towards fulfilling the requirements of the award course in which the student is enrolled.

5. Unit of study assessment

(1) A student who completes a unit of study will normally be awarded grades of high distinction, distinction, credit or pass, in accordance with policies established by the Academic Board. The grades high distinction, distinction and credit indicate work of a standard higher than that required for a pass.

(2) A student who completes a unit of study for which only a pass/fail result is available will be recorded as having satisfied requirements.

(3) In determining the results of a student in any unit of study, the whole of the student's work in the unit of study may be taken into account.

(4) Examination and assessment in the University are conducted in accordance with the policies and directions of the Academic Board.

6. Attendance

(1) A faculty has authority to specify the attendance requirements for courses or units of study in that faculty. A faculty must take into account any University policies concerning modes of attendance, equity and disabled access.

(2) A faculty has authority to specify the circumstances under which a student who does not satisfy attendance requirements may be deemed not to have completed a unit of study or an award course.

Division 2: Enrolment

7. Enrolment restrictions

(1) A student who has completed a unit of study towards the requirements of an award course may not re-enrol in that unit of study, except as permitted by faculty resolution or with the written permission of the dean. A student permitted to re-enrol may receive a higher or lower grade, but not additional credit points.

(2) Except as provided in subsection (1), a student may not enrol in any unit of study which overlaps substantially in content with a unit that has already been completed or for which credit or exemption has been granted towards the award course requirements.

(3) A student may not enrol in units of study additional to award course requirements without first obtaining permission from the relevant dean.

(4) Except as prescribed in faculty resolutions or with the permission of the relevant dean:

(a) a student enrolled in an undergraduate course may not enrol in units of study with a total value of more than 32 credit points in any one semester, or 16 credit points in the summer session; and

(b) a student enrolled in a postgraduate award course may not enrol in units of study with a total value of more than 24 credit points in any one semester, or 12 credit points in the summer session.

Division 3: Credit, cross-institutional study and their upper limits

8. Credit for previous studies

(1) Students may be granted credit on the basis of previous studies.

(2) Notwithstanding any credit granted on the basis of work completed or prior learning in another award course at the University of Sydney or in another institution, in order to qualify for an award a student must:

(a) for undergraduate award courses, complete a minimum of the equivalent of two full-time semesters of the award course at the University; and

(b) for postgraduate award courses, complete at least 50 per cent of the requirements prescribed for the award course at the University.

These requirements may be varied where the work was completed as part of an embedded program at the University or as part of an award course approved by the University in an approved conjoint venture with another institution.

(3) The credit granted on the basis of work completed at an institution other than a university normally should not exceed one third of the overall award course requirements.

(4) A faculty has authority to establish embedded academic sequences in closely related graduate certificate, graduate diploma and master's degree award courses. In such embedded sequences, a student may be granted credit for all or some of the units of study completed in one award of the sequence towards any other award in the sequence, irrespective of whether or not the award has been conferred.

(5) In an award course offered as part of an approved conjoint venture the provisions for the granting of credit are prescribed in the Resolutions of the Senate and the faculty resolutions relating to that award course.

9. Cross-institutional study

(1) The relevant dean may permit a student to complete a unit or units of study at another university or institution and have that unit or those units of study credited to the student's award course.

(2) The relevant dean has authority to determine any conditions applying to cross-institutional study.

Division 4: Progression

10. Repeating a unit of study

(1) A student who repeats a unit of study shall, unless granted exemption by the relevant dean:

(a) participate in the learning experiences provided for the unit of study; and

(b) meet all examination, assessment and attendance requirements for the unit of study.

(2) A student who presents for re-assessment in any unit of study is not eligible for any prize or scholarship awarded in connection with that unit of study without the permission of the relevant dean.

11. Time limits

A student must complete all the requirements for an award course within ten calendar years or any lesser period if specified by resolution of the Senate or the faculty.

Division 5: Discontinuation of enrolment and suspension of candidature

12. Discontinuation of enrolment

(1) A student who wishes to discontinue enrolment in an award course or a unit of study must apply to the relevant dean and will be presumed to have discontinued enrolment from the date of that application, unless evidence is produced showing:
(a) that the discontinuation occurred at an earlier date; and
(b) that there was good reason why the application could not be made at the earlier time.

(2) A student who discontinues enrolment during the first year of enrolment in an award course may not re-enrol in that award course unless:
(a) the relevant dean has granted prior permission to re-enrol; or
(b) the student is reselected for admission to candidature for that course.

(3) No student may discontinue enrolment in an award course or unit of study after the end of classes in that award course or unit of study, unless he or she produces evidence that:
(a) the discontinuation occurred at an earlier date; and
(b) there was good reason why the application could not be made at the earlier time.

(4) A discontinuation of enrolment may be recorded as "Withdrawn (W)" or "Discontinued Not To Count As Failure (DNF)" where that discontinuation occurs within the time-frames specified by the University and published by the faculty, or where the student meets other conditions as specified by the relevant faculty.

13. Suspension of candidature

(1) A student must be enrolled in each semester in which he or she is actively completing the requirements for the award course. A student who wishes to suspend candidature must first obtain approval from the relevant dean.

(2) The candidature of a student who has not re-enrolled and who has not obtained approval from the dean for suspension will be deemed to have lapsed.

(3) A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the relevant faculty.

(4) A student who enrols after suspending candidature shall complete the requirements for the award course under such conditions as determined by the dean.

Division 6: Unsatisfactory progress and exclusion

14. Satisfactory progress

A faculty has authority to determine what constitutes satisfactory progress for all students enrolled in award courses in that faculty, in accordance with the policies and directions of the Academic Board.

15. Requirement to show good cause

(1) For the purposes of this Rule, "good cause" means circumstances beyond the reasonable control of a student, which may include serious ill health or misadventure, but does not include demands of employers, pressure of employment or time devoted to non-University activities, unless these are relevant to serious ill health or misadventure. In all cases the onus is on the student to provide the University with satisfactory evidence to establish good cause. The University may take into account relevant aspects of a student's record in other courses or units of study within the University and relevant aspects of academic studies at other institutions provided that the student presents this information to the University.

(2) The relevant dean may require a student who has not made satisfactory progress to show good cause why he or she should be allowed to re-enrol.

(3) The dean will permit a student who has shown good cause to re-enrol.

16. Exclusion for failure to show good cause

The dean may, where good cause has not been established:

(1) exclude the student from the relevant course; or

(2) permit the student to re-enrol in the relevant award course subject to restrictions on units of study, which may include, but are not restricted to:
(a) completion of a unit or units of study within a specified time;
(b) exclusion from a unit or units of study, provided that the dean must first consult the head of the department responsible for the unit or units of study; and
(c) specification of the earliest date upon which a student may re-enrol in a unit or units of study.

17. Applying for re-admission after exclusion

(1) A student who has been excluded from an award course or from a unit or units of study may apply to the relevant dean for re-admission to the award course or re-enrolment in the unit or units of study concerned after at least four semesters, and that dean may readmit the student to the award course or permit the student to re-enrol in the unit or units of study concerned.

(2) With the written approval of the relevant dean, a student who has been excluded may be given credit for any work completed elsewhere in the University or in another university during a period of exclusion.

18. Appeals against exclusion

(1) In this Rule a reference to the Appeals Committee is a reference to the Senate Student Appeals Committee (Exclusions and Re-admissions).

(2) (a) (i) A student who has been excluded in accordance with this Rule may appeal to the Appeals Committee.
(ii) A student who has applied for re-admission to an award course or re-enrolment in a unit of study after a period of exclusion, and who is refused re-admission or re-enrolment may also apply to the Appeals Committee.
(b) The Appeals Committee shall comprise:
(i) three ex officio members (the Chancellor, the Deputy Chancellor and the Vice-Chancellor and Principal);
(ii) the Chair and Deputy Chairs of the Academic Board;
(iii) two student Fellows; and
(iv) up to four other Fellows.
(c) The Appeals Committee may meet as one or more subcommittees providing that each subcommittee shall include at least one member of each of the categories of:
(i) ex officio member;
(ii) Chair or Deputy Chair of the Academic Board;
(iii) student Fellow; and
(iv) other Fellows.
(d) Three members shall constitute a quorum for a meeting of the Appeals Committee or a subcommittee.
(e) The Appeals Committee and its subcommittees have authority to hear and determine all such appeals and must report its decision to the Senate annually.
(f) The Appeals Committee or a subcommittee may uphold or disallow any appeal and, at its discretion, may determine the earliest date within a maximum of four semesters at which a student who has been excluded shall be permitted to apply to re-enrol.
(g) No appeal shall be determined without granting the student the opportunity to appear in person before the Appeals Committee or subcommittee considering the appeal. A student so appearing may be accompanied by a friend or adviser.
(h) The Appeals Committee or subcommittee may hear the relevant dean but that dean may only be present at those stages at which the student is permitted to be present. Similarly, the dean is entitled to be present when the Committee or subcommittee hears the student.
(i) If, due notice having been given, a student fails to attend a meeting of the Appeals Committee or subcommittee scheduled to consider that student's appeal, the Appeals Committee or subcommittee, at its discretion, may defer consideration of the appeal or may proceed to determine the appeal.
(j) A student who has been excluded in accordance with these resolutions and has lodged a timely appeal against that exclusion may re-enrol pending determination of that appeal if it has not been determined by the commencement of classes in the next appropriate semester.

Division 7: Exceptional circumstances

19. Variation of award course requirements in exceptional circumstances

The relevant dean may vary any requirement for a particular student enrolled in an award course in that faculty where, in the opinion of the dean, exceptional circumstances exist.

Division 8: Award of degrees, diplomas and certificates

20. Classes of award

(1) Undergraduate diplomas may be awarded in five grades - pass, pass with merit, pass with distinction, pass with high distinction or honours.
(2) Degrees of bachelor may be awarded in two grades - pass or honours.
(3) Graduate diplomas and graduate certificates may be awarded in one grade only - pass.
(4) Degrees of master by coursework may be awarded three grades - pass, pass with merit or honours.

21. Award of the degree of bachelor with honours

(1) The award of honours is reserved to indicate special proficiency. The basis on which a student may qualify for the award of honours in a particular award course is specified in the faculty resolutions relating to the course.
(2) Each faculty shall publish the grading systems and criteria for the award of honours in that faculty.
(3) Classes which may be used for the award of honours are:
First Class
Second Class/Division 1
Second Class/Division 2
Third Class
(4) With respect to award courses which include an additional honours year:
(a) a student may not graduate with the pass degree while enrolled in the honours year;
(b) on the recommendation of the head of the department concerned, a dean may permit a student who has been awarded the pass degree at a recognised tertiary institution to enrol in the honours year in that faculty;
(c) faculties may prescribe the conditions under which a student may enrol part-time in the honours year;
(d) a student who fails or discontinues the honours year may not re-enrol in it, except with the approval of the dean.

22. University Medal

An honours bachelor's degree student with an outstanding academic record throughout the award course may be eligible for the award of a University Medal, in accordance with Academic Board policy and the requirements of the faculty resolutions relating to the award course concerned.

23. Award of the degree of master with honours or merit

The award of honours or pass with merit is reserved to indicate special proficiency or particular pathways to completion. The basis on which a student may qualify for the award of honours or the award with merit in a particular degree is specified in the Faculty Resolutions relating to that degree.

24. Transcripts and testamurs

(1) A student who has completed an award course or a unit of study at the University will receive an academic transcript upon application and payment of any charges required.
(2) Testamurs may indicate streams or majors or both as specified in the relevant faculty resolutions.

Division 9: Transitional provisions

25. Application of this Rule during transition

This Rule applies to all candidates for degrees, diplomas and certificates who commence candidature after 1 January 2001. Candidates who commenced candidature prior to this date may choose to proceed in accordance with the resolutions of the Senate in force at the time they enrolled, except that the faculty may determine specific conditions for any student who has re-enrolled in an award course after a period of suspension.

General University information

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

See also the Glossary for administrative information relating to particular terms.

Accommodation Service

The Accommodation Service helps students find off-campus accommodation. The service maintains an extensive database of accommodation close to the Camperdown and Darlington Campus or within easy access via public transport. Currently enrolled students can access the database online through the MyUni student portal (http://myuni.usyd.edu.au), or the accommodation website via your MyUni student portal or the Services for Students website website (http://www.usyd.edu.au/stuserv).

Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia

Phone: +61 29351 3312
Fax:+61 2 9351 8262
Email: accomm@stuserv.usyd.edu.au
Web: www.usyd.edu.au/accom

Admissions Office

The Admissions Office, located in the Student Centre, is responsible for overseeing the distribution of offers to undergraduate applicants through the Universities Admission Centre (UAC). They can advise prospective local undergraduate students on admission requirements. Postgraduate students should contact the appropriate faculty. If you are an Australian citizen or a permanent resident but have qualifications from a non-Australian institution phone +61 2 9351 4118 for more information. For enquiries regarding special admissions (including mature-age entry) phone +61 2 9351 3615. Applicants without Australian citizenship or permanent residency should contact the International Office (see International Student Centre entry).

Student Centre
Ground Floor, Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 4117 or +61 2 9351 4118
Fax:+61 2 9351 4869
Email: admissions@records.usyd.edu.au
Web: www.usyd.edu.au/su/studentcentre

Applying for a course

Local applicants for undergraduate courses and programs of study

For the purpose of admission and enrolment "local applicant" refers to citizens and permanent residents of Australia and citizens of New Zealand. If you are in this group and wish to apply for admission into an undergraduate course, you would generally apply through the Universities Admissions Centre (UAC). The deadline for application is the last working day of September in the year before enrolment. Go to the UAC website (http://www.uac.edu.au) for more information.

Note that some faculties, such as Pharmacy, the Sydney Conservatorium of Music and Sydney College of the Arts, have additional application procedures.

Local applicants for postgraduate courses and programs of study

For the purpose of admission and enrolment "local applicant" refers to citizens and permanent residents of Australia and citizens of New Zealand. Application is direct to the faculty which offers the course that you are interested in. Application forms for postgraduate coursework, postgraduate research and the qualifying or preliminary program and for non-award postgraduate study can be found at the student centre website (http://www.usyd.edu.au/su/studentcentre/applications/applications.html).

Please note that some faculties use their own specially tailored application forms for admission into their courses. Please contact the relevant faculty.

International applicants for all course types (undergraduate and postgraduate)

"International applicants" refers to all applicants other than Australian citizens, Australian permanent residents and citizens of New Zealand. In the majority of cases international applicants apply for admission through the University's International Office (IO) (see International Student Centre entry). All the information international applicants need, including application forms, is available from the IO website (http://www.usyd.edu.au/international).

Assessment

For assessment matters refer to the relevant department or school.

Careers Centre

The Careers Centre will help you with careers preparation and gradutate recruitment.

Careers Centre
Ground Floor, Mackie Building KOI
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 3481
Fax:+61 2 9351 5134
Email: info@careers.usyd.edu.au
Web: www.careers.usyd.edu.au

Casual Employment Service

The Casual Employment Service helps students find casual and part-time work during their studies and during University vacations. The service maintains a database of casual employment vacancies. Currently enrolled students can access the database online through the MyUni student portal, or the casual employment website via your MyUni student portal, or the Services for Students website (http ://w w w.usy d. edu.au/stuserv).

Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 8714
Fax:+61 2 9351 8717
Email: ces@stuserv.usyd.edu.au
Web:
www.usyd.edu.au/cas_emp

Centre for Continuing Education

The Centre for Continuing Education offers a wide range of short courses for special interest, university preparation and professional development. Subject areas include: history and culture, creative arts, social sciences, languages, IT, business and overseas study tours. Courses are open to everyone.

Centre for Continuing Education
Cnr Missenden Road and Campbell Street
Sydney University Village
Newtown NSW 2042

Ph:+61 2 9036 4789
Fax:+61 2 9036 4799
Email: info@cce.usyd.edu.au
Web: www.cce.usyd.edu.au

Postal address:
Locked Bag 20
Glebe NSW 2037

Centre for English Teaching (CET)

The Centre for English Teaching (CET) offers English language and academic study skills programs to students from overseas and Australian residents from non-English speaking backgrounds who need to develop their English language skills to meet academic entry requirements.

Mallett Street Campus M02

Phone:+61 2 9351 0760
Fax:+61 2 9351 0710
Email: info@cet.usyd.edu.au
Web: www.usyd.edu.au/cet

Child care

Contact the Child Care Information Officer for information about child care for students and staff of the University who are parents. For details of centres, vacation and occasional care see the child care website via your MyUni student portal or the Services for Students website (http://www.usyd.edu.au/stuserv)

Child Care Information Officer
Level 7, Education Building A35

Phone:+61 2 9351 5667
Fax:+61 2 9351 7055
Email: childc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/childcare

Client Services, Information and Communications Technology (ICT)

Client Services are responsible for the delivery of many of the computing services provided to students. Students can contact Client Services by phoning the ICT Helpdesk on 9351 6000, through the IT Assist website (www.itassist.usyd.edu.au) or by visiting the staff of the University Access Labs.
The access labs on the Camperdown and Darlington campus are located in:

- Fisher Library (Level 2);
- Carslaw Building (Room 201);
- Education Building (Room 232);
- Christopher Brennan Building (Room 232);
- Engineering Link Building (Room 222); and
- Pharmacy and Bank Building (Room 510).

Other labs are available at the Law, Westmead Hospital and Cumberland campuses.

The labs provide students free access to computers including office productivity and desktop publishing software.

Services available on a fee for service basis include Internet access, printing facilities and the opportunity to host their own non-commercial website.

Each student is supplied with an account, called a "Unikey" account, which allows access to a number of services including:

- free email (www-mail.usyd.edu.au);
- access to the Internet from home or residential colleges (www.itassist.usyd.edu.au/services.html);
- student facilities via the MyUni student portal (http://my-uni.usyd.edu.au), including exam results, enrolment variations and timetabling; and
- free courses in basic computing (such as MS Office; basic html and excel) that are run by Access Lab staff in the week following orientation week. To register contact the Access Lab Supervisor on+61 2 9351 6870.

Client Services, Helpdesk
University Computer Centre, H08
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 6000
Fax:+61 2 9351 6004
Email: support@usyd.edu.au
Web: www.itassist.usyd.edu.au

The Co-op Bookshop

The Co-op Bookshop is a one-stop bookshop for:

- textbooks;
- general books;
- course notes;
- reference books;
- DVDs;
- flash drives; and
- software at academic prices.

Lifetime membership costs $20.00 and gives a ten per cent discount on purchases (conditions apply).

Sports and Aquatic Centre Building G09

Phone:+61 2 9351 3705
Fax: +61 2 9660 5256
Email: sydu@coop-bookshop.com.au
Web: www.coop-bookshop.com.au

Counselling Service

The Counselling Service aims to help students fulfil their academic, individual and social goals through professional counselling. Counselling is free and confidential. The service provides short-term, problem-focused counselling to promote psychological wellbeing and to help students develop effective and realistic coping strategies. The service runs a program of workshops during each semester. For details of workshops, activities and online resources provided by the service see the Counselling Service website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Camperdown and Darlington

Level 7, Education Building A35
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 2228
Fax:+61 2 9351 7055
Email: counsell@mail.usyd.edu.au
Web: www.usyd.edu.au/counsel

Cumberland Campus

Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia
Phone:+61 2 9351 9638
Fax:+61 2 9351 9635
Email: CS_Cumberland@fhs.usyd.edu.au

Web: www.usyd.edu.au/counsel

Disability Services

Disability Services is the principal point of contact for advice on assistance available for students with disabilities. The service works closely with academic and administrative staff to ensure that students receive reasonable accommodations in their areas of study. Assistance available includes the provision of note taking, interpreters and advocacy with academic staff to negotiate assessment and course requirement modifications where appropriate. For details on registering with the service and online resources see the Disability Services website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Camperdown and Darlington campuses

Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia

Phone:+61 2 93517040
Fax:+61 2 9351 3320
TTY:+61 2 9351 3412
Email: disserv@stuserv.usyd.edu.au
Web: www.usyd.edu.au/disability

Cumberland Campus

Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia
Phone:+61 2 9351 9638
Fax:+61 2 9351 9635
Email: DS_Cumberland@fhs.usyd.edu.au
Web: www.usyd.edu.au/disability

Enrolment

Students entering first year

Details of enrolment procedures will be sent to you with your UAC offer of enrolment. Enrolment takes place at a specific time and date, usually during the last week of January, depending on your surname and the faculty in which you are enrolling. You must attend the University in person or else nominate somebody in writing to act on your behalf. On enrolment day you pay the compulsory fees for joining the Student Union, the Students' Representative Council and sporting bodies. (These are currently subject to Parliamentary Review and may be voluntary in 2006.) You also nominate your preferred payment option, either "up front" or deferred, for your Higher Contribution Scheme (HECS) liability. You will also choose your first-year units of study, so it's important to consult the appropriate faculty handbook before enrolling.

All other students

A pre-enrolment package is sent to all enrolled students in late September and contains instructions on the procedure for pre-enrolment.

Environmental Policy

The University of Sydney's Environmental Policy promotes sustainable resource and product use; and encourages the practice of environmental stewardship by staff and students. The policy is supported by the University wide Sustainable Campus Program.

Enquiries can be directed to the Manager, Environmental Strategies phone +61 2 93512063, email: janet.broady@usyd.edu.au, or go to www.facilities.usyd.edu.au/projects/environ/about.shtml (http://www.facilities.usyd.edu.au/projects/environ/about.shtml) where you can find out what the University is doing and how you can get involved, make suggestions or receive the Sustainable Campus Newsletter.

Examinations

The Examinations and Exclusions Office looks after the majority of examination arrangements and student progression. Some faculties, such as the Sydney Conservatorium of Music, make all examination arrangements for the units of study that they offer.

Examinations and Exclusions Office
Student Centre
Level 1, Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 4005 or +61 2 9351 4006
Fax:+61 2 9351 7330
Email: exams.office@exams.usyd.edu.au

Fees

The Fees Office provides information on how to pay fees, where to pay fees and if payments have been received. The office also has information on obtaining a refund for fee payments.

Fees Office
Margaret Telfer Building K07
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 5222
Fax:+61 2 9351 4202

Financial Assistance Office

The University of Sydney has a number of loan and bursary funds to assist students experiencing financial difficulties. Loan assistance is available for undergraduate and postgraduate students enrolled in degree and diploma courses at the University. The assistance is not intended to provide the principle means of support but to help enrolled students in financial need with expenses such as housing bonds and rent; phone and electricity bills; medical expenses; buying textbooks and course equipment. Loans are interest free and are repayable usually within one year. Bursaries may be awarded depending on financial need and academic merit and are usually only available to local full-time undergraduate students. Advertised bursaries, including First Year Bursaries, are advertised through the MyUni student portal in January each year. For details of types of assistance and online resources provided by the service see the Financial Assistance website via your MyUni student protal or the Services for Students website www.usyd.edu.au/stuserv

Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 2416
Fax:+61 2 9351 7055
Email: fao@stuserv.usyd.edu.au
Web: www.usyd.edu.au/fin_assist

Freedom of Information

The University of Sydney falls within the jurisdiction of the *NSW Freedom of Information Act, 1989* . The act:

- requires information concerning documents held by the University to be made available to the public;
- enables a member of the public to obtain access to documents held by the University; and
- enables a member of the public to ensure that records held by the University concerning his or her personal affairs are not incomplete, incorrect, out of date or misleading.

(Note that a "member of the public" includes staff and students of the University.)

It is a requirement of the act that applications be processed and a determination made within a specified time period, generally 21 days. Determinations are made by the University's Registrar.

While application may be made to access University documents, some may not be released in accordance with particular exemptions provided by the act. There are review and appeal mechanisms which apply when access has been refused.

The University is required to report to the public on its freedom of information (FOI) activities on a regular basis. The two reports produced are the *Statement of Affairs* and the *Summary of Affairs* . The *Statement of Affairs* contains information about the University, its structure, function and the kinds of documents held. The *Summary of Affairs* identifies the University's policy documents and provides information on how to make an application for access to University documents.

Further information and copies of the current reports may be found at www.usyd.edu.au/arms/foi

Graduations Office

The Graduations Office is responsible for organising graduation ceremonies and informing students of their graduation arrangements.

Student Centre
Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 3199, +61 2 9351 4009
Protocol:+61 2 9351 4612
Fax:+61 2 9351 5072

(Grievances) Appeals

You may consider that a decision affecting your candidature for a degree or other activities at the University has not taken into account all relevant matters.

In some cases the by-laws or resolutions of the Senate (see the University Calendar (http://www.usyd.edu.au/about/publication/pub/calendar.shtml)) provide for a right of appeal against particular decisions; for example, there is provision for appeal against academic decisions, disciplinary decisions and exclusion after failure.

A document outlining the current procedures for appeals against academic decisions is available at the Student Centre, at the SRC, and on the University's policy online website (http://www.usyd.edu.au/policy) (click on "Study at the University", then click on "Appeals" - see the Academic Board and Senate resolutions).

For assistance or advice regarding an appeal contact:

Students' Representative Council
Level 1, Wentworth Building G01
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9660 5222

HECS and Fees Office

Student Centre
Ground Floor, Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 5659, +61 2 9351 5062, +61 2 9351 2086
Fax:+61 2 9351 5081

International Student Centre

The International Student Centre consists of the International Office and the Study Abroad and Exchange Office. The IO provides assistance with application, admission and enrolment procedures and administers scholarships for international students. The Study Abroad and Exchange unit assists both domestic and international students who wish to enrol for study abroad or exchange programs.

International Student Centre

Services Building G12
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 4079
Fax:+61 2 9351 4013
Email: info@io.usyd.edu.au
Web: www.usyd.edu.au/international (http://www.usyd.edu.au/international)

Study Abroad and Exchange Unit

Study Abroad
Phone:+61 2 9351 3699
Fax:+61 2 9351 2795
Email: studyabroad@io.usyd.edu.au
Web: www.usyd.edu.au/fstudent/studyabroad/index.shtml (http://www.usyd.edu.au/fstudent/studyabroad/index.shtml)

Exchange
Phone:+61 2 9351 3699
Fax:+61 2 9351 2795
Email: exchange@io.usyd.edu.au
Web: ww w.usyd. edu. au/fstudent/exchange/index, shtml

International Student Services Unit

The International Student Services Unit assists international students through the provision of orientation, counselling and welfare services to both students and their families. ISSU aims to help international students cope successfully with the challenges of living and studying in a unfamiliar culture, to achieve success in their studies and to make the experience of being an international student rewarding and enjoyable. For details of orientation activities, counselling and welfare services provided to both students and their families and online resources, see the MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv. International students also have access to all University student support services.

Camperdown and Darlington campuses

Ground Floor, Services Building G12
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 4749
Fax:+61 2 9351 6818
Email: info@issu.usyd.edu.au
Web: www.usyd.edu.au/issu

Cumberland Campus

Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia

Phone:+61 2 9351 9638
Fax:+61 2 9351 9635
Email: ISSU_Cumberland@fhs.usyd.edu.au
Web: www.usyd.edu.au/issu

Koori Centre and Yooroang Garang

The Koori Centre provides programs, services and facilities to encourage and support the involvement of Aboriginal and Torres Strait Islander people in all aspects of tertiary education at the University of Sydney. The Cadigal Special Entry Program assists Indigenous Australians to enter undergraduate study across all areas of the University.

As well as delivering block-mode courses for Indigenous Australian students, the Koori Centre teaches Aboriginal Studies in various mainstream courses. In addition the Centre provides tutorial assist-

ance, and student facilities such as: computer lab, Indigenous research library and study rooms.
In particular the Koori Centre aims to increase the successful participation of Indigenous Australians in undergraduate and postgraduate degrees, develop the teaching of Aboriginal Studies, conduct research in the field of Aboriginal education, and establish working ties with schools and communities.

The Koori Centre works in close collaboration with Yooroang Garang: School of Indigenous Health Studies in the Faculty of Health Sciences at the University's Cumberland Campus. Yooroang Garang provides advice, assistance and academic support for Indigenous students in the faculty, as well as preparatory undergraduate and postgraduate courses.

Koori Centre
Ground Floor, Old Teachers College A22
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 2046 (general enquiries)
Toll Free: 1800 622 742
Community Liaison Officer: +61 2 9351 7003
Fax:+61 2 9351 6923
Email: koori@koori.usyd.edu.au
Web: www.koori.usyd.edu.au (http://www.koori.usyd.edu.au)

Yooroang Garang
T Block, Level 4, Cumberland Campus C42
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 9393
Toll Free: 1800 000 418
Fax:+61 2 9351 9400
Email: yginfo@fhs.usyd.edu.au
Web: www.yg.fhs.usyd.edu.au

Learning Centre

The Learning Centre helps students develop the generic learning and communication skills that are necessary for university study and beyond. The centre is committed to helping students achieve their academic potential throughout their undergraduate and postgraduate studies. The centre's program includes a wide range of workshops on study skills, academic reading and writing, oral communication skills and postgraduate writing and research skills. Other services include an individual learning program, a special program for international students, faculty-based workshops, computer-based learning resources, publications of learning resources and library facilities. For details of programs, activities and online resources provided by the centre see the website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Camperdown and Darlington campuses
Level 7, Education Building A3 5
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 3853
Fax:+61 2 9351 4865
Email: lc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/lc

Cumberland Campus
Ground Floor, A Block, Cumberland Campus C42
The University of Sydney
East Street
Lidcombe
NSW 2141 Australia

Phone:+61 2 9351 9638
Fax:+61 2 9351 9635
Email: LC_Cumberland@fhs.usyd.edu.au
Web: www.usyd.edu.au/lc

Library

The University of Sydney Library, the largest academic library in the Southern Hemisphere, is a network of 18 libraries located on nine campuses. The Library website (http://www.library.usyd.edu.au) provides access to services and resources, anywhere at anytime. The locations, opening hours and subject specialities of the libraries are listed on the website.

Over five million items are available via the Library catalogue, including more than 52,000 electronic journals and 270,000 electronic books. Past exam papers are also available online. Enrolled students are entitled to borrow from any of the University Libraries. More information is available atwww.library.usyd.edu.au/borrowing (http ://w w w.library.usy d. edu. au/borrowing).

Reading list items are available via the reserve service. Increasingly, reading list material is becoming available in electronic form. For details see thereserve service (http://opac.library.usyd.edu.au/screens/reserve.html).

Library staff are always available to support students in their studies. "Ask a Librarian" in person, by email, or by using an online chat service (http://www.library.usyd.edu.au/contacts/index.html).

A specialist librarian is available for all discipline areas and will provide training in finding high quality information. Courses cover a range of skills including research methodology, database searching, effective use of the Internet and the use of reference management software. See the subject contact page (http://www.library.usyd.edu.au/contacts/subjectcontacts.html).

Library facilities include individual and group study spaces, computers, printers, multimedia equipment, photocopiers and adaptive technologies. Check the "Libraries" link on the home page (http://www.library.usyd.edu.au) to find out about services and facilities in specific libraries.

The *Client Service Charter* describes the Library's commitment to supporting students' learning, including those with special needs. See the *Client Service Charter* online (http://www.library.usyd.edu. au/about/policies/clientcharter.html).

Your comments and suggestions are always welcome.

University of Sydney Library F03
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 2993 (general enquiries)
Fax: +61 2 9351 2890 (administration), +61 2 9351 7278 (renewals)
Email: loanenq@library.usyd.edu.au (loan enquiries), udd@library.usyd.edu.au (document delivery enquiries)
Web: www.library.usyd.edu.au

Mathematics Learning Centre

The Mathematics Learning Centre assists undergraduate students to develop the mathematical knowledge, skills and confidence that are needed for studying first level mathematics or statistics units at university. The entre runs bridging courses in mathematics at the beginning of the academic year (fees apply). The centre also provides ongoing support to eligible students during the year through individual assistance and small group tutorials. For details of activities and online resources provided by the centre see the website via your MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

Level 4, Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 4061
Fax:+61 2 9351 5797
Email: mlc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/mlc

Multimedia and Educational Technologies in Arts (META) Resource Centre (Languages and E-Learning)

The centre provides access to lectures, classwork and interactive self-paced learning materials for students of languages other than English (LOTE) and English as a second language (ESL). The library holds materials in over 90 LOTE languages. The self study room provides interactive computer assisted learning and access to live multilingual satellite television broadcasts. Computer access labs provide Internet, email and word processing access. The centre also provides teaching rooms with state-of-the-art multimedia equipment, language laboratories and video conferencing facilities for Faculty of Arts courses.

Level 2, Brennan Building (opposite Manning House)
The University of Sydney
NSW 2006 Australia

Phone: For language enquiries +612 9351 2371, for all other enquiries+61 2 9351 6781
Fax:+61 2 9351 3626
Email: For language related enquiries language.enquiries® arts.usyd.edu.au, for all other enquiries METAResourceCentre@arts.usyd.edu
Web: www.arts.usyd.edu.au/centres/meta

MyUni Student Portal

Launched in July 2004, the MyUni student portal (http://myuni.usyd.edu.au) is the starting point and "one-stop" environment for students to access all their web-based University information and services. MyUni automatically tailors what a student sees based on thier login-in and offers students the option of further personalising content. Most importantly, MyUni allows students to complete tasks online that would previously have required attendance in person. The following are examples of MyUni services and information:

- support services for students in health, counselling, child care, accommodation, employment and wellbeing;
- student administration systems for obtaining exam results, enrolment and variations, timetabling, email services and links to courses and units of study information;
- links to the University's e-learning systems;
- library services;
- important messages and student alerts;
- information technology and support services;
- information for international students; and
- campus maps, with descriptions of cultural, sporting and campus facilities.

Part-time, full-time

Undergraduate Students

Undergraduate students are usually considered full-time if they have a student load of at least 0.375 each semester. Anything under this amount is considered a part-time study load. Note that some faculties have minimum study load requirements for satisfactory progress.

Postgraduate Students (Coursework)

For postgraduate coursework students part-time or full-time status is determined by credit-point load. Enrolment in units of study which total at least 18 credit points in a semester is classed as full-time. Anything under this amount is a part-time study load. Please note that classes for some coursework programs are held in the evenings (usually 6-9pm).

Postgraduate Students (Research)

Full-time candidates for research degrees do not keep to the normal semester schedule, instead they work continuously throughout the year with a period of four weeks recreation leave. There is no strict definition of what constitutes full-time candidature but if you have employment or other commitments that would prevent you from devoting at least the equivalent of a 35-hour working week to your candidature (including attendance at the University for lectures, seminars, practical work and consultation with your supervisor) you should enrol as a part-time candidate. If in doubt you should consult your faculty or supervisor.

International Students

Student visa regulations require international students to undertake full-time study. International students on visas other than student visas may be permitted to study part-time.

Privacy

The University is subject to the *NSW Privacy and Personal Information Protection Act 1998* and the *NSW Health Records and Information Privacy Act 2002* . Central to both acts are the sets of information protection principles (IPPs) and health privacy principles which regulate the collection, management, use and disclosure of personal and health information. In compliance with the *Privacy and Personal Information Protection Act* the University developed a *Privacy Management Plan* which includes the *University Privacy Policy* . The *Privacy Management Plan* sets out the IPPs and how they apply to functions and activities carried out by the University. Both the plan and the *University Privacy Policy* were endorsed by the Vice-Chancellor on 28 June 2000.

Further information and a copy of the plan may be found at www.usyd.edu.au/arms/privacy (http://www.usyd.edu.au/arms/privacy).

Any questions regarding the *Freedom of Information Act*, the *Privacy and Personal Information Protection Act*, the *Health Records and Information Privacy Act* or the *Privacy Management Plan* should be directed to:

Tim Robinson: +61 2 9351 4263, or Anne Picot: +61 2 9351 7262
Email: foi@mail.usyd.edu.au

Scholarships for undergraduates

Scholarships Unit
Room 147, Ground Floor, Mackie Building KOI
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 2717
Fax:+61 2 9351 5134
Email: scholarships@careers.usyd.edu.au
Web: www.usyd.edu.au/scholarships

Student Centre

Ground Floor, Carslaw Building F07
The University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 3023 (general enquiries)
Academic records: +61 2 9351 4109
Discontinuation of enrolment: +61 2 9351 3023
Handbooks: +61 2 9351 5057
Prizes:+61 2 9351 5060
Fax: +61 2 9351 5081, +61 2 9351 5350 (academic records)
Web: www.usyd.edu.au/su/studentcentre

Student Identity Cards

The student identity card functions as a library borrowing card, a transport concession card (when suitably endorsed) and a general identity card. The card must be carried at all times on the grounds of the University and must be shown on demand. Students are required to provide a passport-sized colour photograph of their head and shoulders for lamination on to this card. Free lamination is provided at a range of sites throughout the University during the January/February enrolment/pre-enrolment period. Cards that are not laminated, or do not include a photograph, will be rejected. New identity cards are required for each year of a student's enrolment.

Student Services

The University provides personal, welfare, administrative and academic support services to facilitate your success at University. Many factors can impact on your wellbeing while studying at university and student services can assist you in managing and handling these more effectively. For details of services and online resources provided see the Student Services website (http://www.usyd.edu.au/stuserv).

The Sydney Summer School

Most faculties at the University offer units of study from undergraduate degree programs during summer. There are also some units of study available for postgraduate coursework programs from some faculties. As the University uses its entire quota of Commonwealth supported places in first and second semester, these units are full fee-paying for both local and international students and enrolment is entirely voluntary. However, Summer School units enable students to accelerate their degree progress, make up for a failed unit or fit in a unit which otherwise would not suit their timetables. New students may also gain a head start by completing subjects before they commence their degrees. Units start at various times from late November and run for up to six weeks (followed by an examination week). Notice of the units available is on the Summer School website (http://www.summer.usyd.edu.au) and is usually circulated to students with their results notices. A smaller Winter School is also run from the Summer School office. It commences on 3 July and runs for up to three weeks (followed by an examination week). It offers mainly postgraduate and a few undergraduate units of study. Information can be found on the Summer School website (http://www.summer.usyd.edu.au).

Timetabling Unit

The Timetabling Unit in the Student Centre is responsible for producing students' class and tutorial timetables. Semester One timetables are available from the Wednesday of O Week through the MyUni website (http://myuni.usyd.edu.au).

The Faculty of Health Sciences, The Sydney College of the Arts, The Sydney Conservatorium of Music and the Faculty of Vetinary Science produce their own timetables for all teaching that they deliver. These timetables are available from the faculties.

University Health Service

The University Health Service provides full general practitioner services and emergency medical care to all members of the University community. Medical centres on the Camperdown and Darlington Campuses offer general practioners, physiotherapy and some specialist services.

Email: director@unihealth.usyd.edu.au
Web: www.unihealth.usyd.edu.au

University Health Service (Wentworth)
Level 3, Wentworth Building G01
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 3484
Fax:+61 2 93514110

University Health Service (Holme)
Science Rd entry, Holme Building A09
The University of Sydney
NSW 2006 Australia

Phone:+61 2 93514095
Fax:+61 2 9351 4338

Student organisations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

Students' Representative Council

The Students' Representative Council (SRC) is the organisation which represents undergraduates both within the University and in the wider community. All students enrolling in an undergraduate course automatically become members of the SRC.

Level 1, Wentworth Building G01
The University of Sydney
NSW 2006 Australia

Phone: + 612 9660 5222 (editors, *Honi Soit* /Legal Aid, Student Welfare and Centrelink advice, interest free loans)
Second-hand Bookshop: +61 2 9660 4756
Mallet Street: +61 2 9351 0691
Conservatorium: +61 2 9351 1291
Fax: +61 2 9660 4260
Email: info@src.usyd.edu.au
Web: www.src.usyd.edu.au

Sydney University Postgraduate Representative Association (SUPRA)

SUPRA is an organisation that provides services to and represents the interests of postgraduate students.
All postgraduate students at the University of Sydney are members of SUPRA.

Raglan Street Building G10
University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 3715
Freecall: 1800 249 950
Fax:+61 2 9351 6400
Email: supra@mail.usyd.edu.au
Web: www.supra.usyd.edu.au

Sydney University Sport

Sydney University Sport provides opportunities for participation in a range of sporting and recreational activities along with first class facilities.

University Sports and Aquatic Centre G09
The University of Sydney
NSW 2006 Australia

Phone:+61 2 9351 4960
Fax:+61 2 9351 4962
Email: admin@susport.usyd.edu.au
Web: www.susport.com

University of Sydney Union

The University of Sydney Union is the main provider of catering facilities, retail services, welfare programs and social and cultural events for the University community on the Camperdown and Darlington campuses and at many of the University's affiliated campuses.

University of Sydney Union
Level 1, Manning House A23
The University of Sydney
NSW 2006 Australia

Phone: 1800 013 201 (switchboard)
Fax: (02) 9563 6109
Email: info@usu.usyd.edu.au
Web: www.usydunion.com

Abbreviations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit [M]http://www.usyd.edu.au/handbooks/[M].

For a glossary of terms, describing the terminology in use at the University of Sydney, please see the glossary section.

Listed below are the more commonly used acronyms that appear in University documents and publications.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

AARNet	Australian Academic Research Network
AAUT	Australian Awards for University Teaching
AAM	Annual Average Mark
ABC	Activity Based Costing
ABSTUDY	Aboriginal Study Assistance Scheme
ACER	Australian Council for Educational Research
AGSM	Australian Graduate School of Management
ANZAAS	Australian and New Zealand Association for the Advancement of Science
APA	Australian Postgraduate Awards
APAC	Australian Partnership for Advanced Computing
APAI	Australian Postgraduate Awards (Industry)
APA-IT	Australian Postgraduate Awards in Information Technology
APDI	Australian Postdoctoral Fellowships Industry
APEC	Asia-Pacific Economic Cooperation
APF	Australian Postdoctoral Fellowship
AQF	Australian Qualifications Framework
ARC	Australian Research Council
ARTS	Automated Results Transfer System
ASDOT	Assessment Fee Subsidy for Disadvantaged Overseas Students
ATN	Australian Technology Network
ATP	Australian Technology Park
ATPL	Australian Technology Park Limited
AUQA	Australian Universities Quality Agency
AusAID	Australian Agency for International Development
AUTC	Australian Universities Teaching Committee
AVCC	Australian Vice-Chancellors Committee

B

BAA	Backing Australia's Ability
BAC	Budget Advisory Committee
BITLab	Business Intelligence Lab
BLO	Business Liaison Office
BOTPLS	Bridging for Overseas Trained Professionals Loans Scheme

C

CAF	Cost Adjustment Factor
CAUT	Committee for Advancement of University Teaching
CDP	Capital Development Program
CEP	Country Education Profile
CEQ	Course Experience Questionnaire
CFO	Chief Financial Officer
CHASS	College of Humanities and Social Sciences
CHESSN	Commonwealth Higher Education System Student Number
CHS	College of Health Sciences
CIO	Chief Information Officer
COE	Confirmation of Enrolment
CPSU	Community and Public Sector Union
CRC	Cooperative Research Centre

C

CREO	Centre for Regional Education, Orange
CRICOS	Commonwealth Register of Institutions and Courses for Overseas Students
CRRI	Centre for Rural and Regional Innovation
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CST	College of Sciences and Technology
CULT	Combined Universities Language Test
CUTSD	Committee for University Teaching and Staff Development

D

DAC	Data Audit Committee
DEST	Commonwealth Department of Education, Science and Training
DET	NSW Department of Education and Training
D-IRD	Discovery-Indigenous Researchers Development Program
DVC	Deputy Vice-Chancellor

E

EB	Enterprise Bargaining
EFTSU	Equivalent Full-Time Student Unit
EFTSL	Equivalent Full-Time Student Load
EIP	Evaluations and Investigations Program
ELICOS	English Language Intensive Course of Study
EMU	Electron Microscope Unit
ESOS Act	Education Services for Overseas Student Act

F

FFT	Fractional Full-Time (Equivalent Staff)
FlexSIS	Flexible Student Information System
FHS	Faculty of Health Sciences
FMO	Facilities Management Office
FOS	Field of Study
FTE	Full-Time Equivalent (Staff)
FRM	Faculty of Rural Management

G

GATS	General Agreement on Trade in Services
GCCA	Graduate Careers Council of Australia
GDS	Graduate Destination Survey
GPOF	General Purpose Operating Funds
GSA	Graduate Skills Assessment
GSG	Graduate School of Government
GWSLN	Greater Western Sydney Learning Network

H

HDR	Higher Degree Research
HECS	Higher Education Contribution Scheme
HEEP	Higher Education Equity Program
HEFA	Higher Education Funding Act 1988
HEIMS	Higher Education Information Management System
HEIP	Higher Education Innovation Program (DEST)
HELP	Higher Education Loan Program

H

HEO	Higher Education Officer
HEP	Higher Education Provider
HERDC	Higher Education Research Data Collection
HESA	Higher Education Support Act
HOD	Head of Department

I

IAF	Institutional Assessment Framework (This is a new name for what was previously the DEST Profile process.)
IAS	Institute of Advanced Studies
ICT	Information and Communication Technology
ICTR	Information and Communication Technology Resources
IELTS	International English Language Testing Scheme
IGS	Institutional Grants Scheme (DEST)
10	International Office
IP	Intellectual Property
IPRS	International Postgraduate Research Scholarships
IREX	International Researcher Exchange Scheme
ISFP	Indigenous Support Funding Program
ISIG	Innovation Summit Implementation Group
ISSU	International Student Services Unit
ITC	Information Technology Committee
ITL	Institute for Teaching and Learning
ITS	Information Technology Services

J

JASON	Joint Academic Scholarships Online Network

L

LBOTE	Language Background Other Than English

M

MBA	Master of Business Administration
MISG	Management Information Steering Group
MNRF	Major National Research Facilities Scheme
MOU	Memorandum of Understanding
MPG	Major Projects Group
MRB	Medical Rural Bonded Scholarship Scheme

N

NBCOTP	National Bridging Courses for Overseas Trained Program
NCG	National Competitive Grant
NESB	Non-English-Speaking Background
NHMRC	National Health and Medical Research Council
NOIE	National Office for the Information Economy
NOOSR	National Office for Overseas Skill Recognition
NRSL	Non-Recent School Leaver
NSWVCC	New South Wales Vice-Chancellors' Conference
NTEU	National Tertiary Education Industry Union

O

OECD	Organisation for Economic Cooperation and Development
OLA	Open Learning Australia
OLDPS	Open Learning Deferred Payment Scheme
OPRS	Overseas Postgraduate Research Scholarships

P

PELS	Postgraduate Education Loans Scheme
PSO	Planning Support Office
PVC	Pro-Vice-Chancellor

Q

QA	Quality Assurance

Q

QACG	Quality Advisory and Coordination Group

R

R&D	Research and Development
R&R	Restructuring and Rationalisation Program
RC	Responsibility Centre
REG	Research and Earmarked Grants
REP	Research Education Program
RFM	Relative Funding Model
RIBG	Research Infrastructure Block Grant (DEST)
RIEF	Research Infrastructure Equipment and Facilities Scheme
RISF	Restructuring Initiatives Support Fund
RMO	Risk Management Office
ROA	Record of Achievement
RQ	Research Quantum
RQU	Recognition Quality Unit (Higher Education Division - DEST)
RRTMR	Research and Research Training Management Reports
RSL	Recent School Leaver
RTS	Research Training Scheme (DEST)

S

SCA	Sydney College of the Arts
SCEQ	Sydney Course Experience Questionnaire
SCM	Sydney Conservatorium of Music
SCR	Science Capability Review
SDF	Strategic Development Fund
SEG	Senior Executive Group
SES	Socioeconomic Status
SI	Scholarship Index
SLE	Student Learning Entitlement
SNA	Safety Net Adjustment
SPIRT	Strategic Partnerships with Industry - Research and Training Scheme
SPR	Student Progress Rate
SRC	Students' Representative Council
SSR	Student/Staff Ratio
STABEX	Study Abroad Exchange (database)
SUPRA	Sydney University Postgraduate Students' Representative Association
SUSport	Sydney Univerisity Sport

T

TAFE	Technical and Further Education
TOEFL	Test of English as a foreign language
TPI	Teaching Performance Indicator

u

UAC	Universities Admissions Centre
UMAP	University Mobility in Asia and the Pacific
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UPA	University Postgraduate Awards

V

VCAC	Vice-Chancellor's Advisory Committee
VET	Vocational Education and Training

W

WAM	Weighted Average Mark
WRP	Workplace Reform Program
WTO	World Trade Organization

Y

YFE	Year of First Enrolment

Glossary

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/".

For a table of the more commonly used acronyms and abbreviations that appear in University documents and publications please see the abbreviations section.

This glossary describes terminology in use at the University of Sydney.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

Annual average mark (AAM)

The average mark over all units of study attempted in a given academic year (equivalent to the calendar year).

The formula for this calculation is:

$$AAM = \frac{2)\ (marks \times credit\ point\ value)}{21\ (credit\ point\ value)}$$

(sums over all units of study completed in the selected period)

Where the mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark — 0. Pass/Fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included.

Academic Board

The senior academic body within the University. In conjunction with faculties, the Academic Board has responsibility for approving, or recommending to Senate for approval, new or amended courses and units of study and policy relating to the admission and candidature of students. (For further information, see the University Calendar.)

Academic cycle

The program of teaching sessions offered over a year. Currently the cycle runs from the enrolment period for Semester One through to the completion of the processing of results at the end of Semester Two. (See also Stage.)

Academic dishonesty

Academic dishonesty occurs when a student presents another person's ideas, findings or written work as his or her own by copying or reproducing them without due acknowledgement of the source and with intent to deceive the examiner. Academic dishonesty also covers recycling, fabrication of data, engaging another person to complete an assessment or cheating in exams. (See also Plagiarism.)

Academic record

The complete academic history of a student at the University. It includes, among other things: personal details; all units of study and courses taken; assessment results (marks and grades); awards and prizes obtained: infringements of progression rules; approvals for variation in course requirements and course leave; thesis and supervision details.

Access to a student's academic record is restricted to authorised University staff and is not released to a third party without the written authorisation of the student. (See also Academic transcript.)

Academic transcript

A printed statement setting out a student's academic record at the University. There are two forms of academic transcript: external and internal. (See also External transcript, Internal transcript.)

Academic year

The current calendar year in which a student is enrolled. (See also Academic cycle, Stage.)

Admission

Governed by the University's admission policy, this is the process for identifying applicants eligible to receive an initial offer of enrolment in a course at the University. Admission to most courses is based on performance in the HSC, with applicants ranked on the basis of their UAI. Other criteria such as a portfolio, interview, audition, or results in standard tests may also be taken into account for certain courses.

Admission basis

The main criteria used by a faculty in assessing an application for admission to a course. The criteria used include, among other things, previous secondary, TAFE or tertiary studies; work experience; special admission; and the Universities Admission Index (UAI).

Admission (Deferment)

An applicant who receives an offer of admission to a course may apply to defer enrolment in that course for one semester or one academic cycle.

Admission mode

A classification based on how a student was admitted to a course, for example "UAC" or "direct".

Admission period

The period during which applications for admission to courses are considered.

Admission year

The year the student expects to begin the course (see also Commencement date.)

Advanced diplomas

(See Award course.)

Advanced standing

(See Credit.)

Advisor

A member of academic staff appointed in an advisory role for some postgraduate coursework students. (See also Associate supervisor, Instrumental supervisor/teacher, Research supervisor, Supervision.)

Aegrotat

In exceptional circumstances involving serious illness or death of a student prior to completion of their course, the award of aegrotat and posthumous degrees and diplomas may be conferred.

Alumni sidneiensis

A searchable database of graduates of the University from 1857 to 30 years prior to the current year.

Annual average mark (AAM)

The average mark over all units of study attempted in a given academic year (equivalent to the calendar year).

The formula for this calculation is:
(mark*credit_pt_value)/ (credit_pt_value)
(sums over all units of study completed in the selected period)

Where the mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark — 0. Pass/Fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included.

Annual progress report

A form which is used to monitor a research student's progress each year. The form provides for comments by the student, the supervisor, the head of the department and the dean (or their nominee). The completed form is attached to the student's official file.

Appeals

Students may lodge an appeal against academic or disciplinary decisions. An academic appeal (e.g. against exclusion) is managed by the Student Centre - Exclusions Office while it is under consideration and a record of the outcome of the appeal will be retained.

Assessment

The process of measuring the performance of students in units of study and courses. Performance may be assessed by examinations, essays, laboratory projects, assignments, theses, treatises or dissertations. (See also Result processing, Result processing schedule.)

Formative assessment
Formative assessment is used principally to provide students with feedback on their progress in learning. It reinforces successful learning, and is an opportunity for students to expose the limitations in their knowledge and understanding.

Summative assessment
Summative assessment is used to certify competence, or to arrange students in a rank order of merit. It certifies the attainment of a standard, and is used as the basis for progression to the next part of a program, or to graduation.

Associate supervisor

A person who is appointed in addition to the supervisor of a research student, who can provide the day-to-day contact with the candidate or provide particular expertise or additional experience in supervision. (See also Advisor, Instrumental supervisor/teacher, Research supervisor, Supervision.)

Assumed knowledge

For some units of study, a student is assumed to have passed a relevant subject at the HSC and this is called assumed knowledge. While students are generally advised against taking a unit of study for which they do not have the assumed knowledge, they are not prevented from enrolling in the unit of study. (See also Prerequisite.)

Attendance pattern

Attendance pattern is classified as full-time, part-time or external, this is dependant on the student's mode of attendance and the student load.

Attendance mode

A Department of Education, Science and Technology (DEST) classification defining the manner in which a student is undertaking a course, i.e. internal, external, mixed or offshore.

Australian Graduate School of Management (AGSM)

A joint venture with the University of New South Wales. The AGSM is derived from the Graduate School of Business at the University of Sydney and the then AGSM at the University of New South Wales.

Australian Qualifications Framework (AQF)

The framework for recognition and endorsement of qualifications established by the Ministerial Council on Education, Employment, Training and Youth Affairs (MCEETYA).

AUSTUDY

Austudy provides financial help to students who are aged 25 years or more who meet the required criteria, and are undertaking an approved full-time course at an approved institution. (See also Youth Allowance.)

Automated Results Transfer System (ARTS)

This system was developed by the Australasian Conference of Tertiary Admissions Centres (ACTAC) to allow the electronic academic record of a student to be accessed, via an admission centre, by tertiary institutions.

Award course
(See Course.)

B

Bachelor's degree

The highest undergraduate award offered at the University. A bachelor's degree course normally requires three or four years of full-time study or the part-time equivalent. (See also Award course.)

Barrier

An instruction placed on a student's record that prevents the student from re-enrolling or graduating. (See also Deadlines (fees), Suppression of results.)

Board of Studies

An academic body which supervises a course or courses, and which is similar to a faculty except that it is headed by a chair rather than a dean and does not supervise PhD candidates.

Bursaries

Financial award made to a student, based primarily on need. (See also Scholarships.)

C

Cadigal program

A program, named in recognition of the Aboriginal people of the land on which the University is located, designed to increase the successful participation of Aboriginal and Torres Strait Islander people in degree courses in all faculties at the University of Sydney.

Campus

The grounds on which the University is situated. There are 11 campuses of the University of Sydney:

- Burren Street (Institute for International Health, Institute of Transport Studies)
- Camperdown and Darlington (formerly known as Main Campus)
- Camden (Agriculture and Veterinary Science)
- Conservatorium (Sydney Conservatorium of Music)
- Cumberland (Health Sciences)
- Mallett Street (Nursing)
- Orange (Faculty of Rural Management and Centre for Regional Education)
- Rozelle (Sydney College of the Arts)
- St James (Law)
- Surry Hills (Dentistry)

Cancellation

Where enrolment is cancelled for non-payment of fees.

Candidature

Candidature commences when a student is admitted to a course of study leading to the award of a degree, diploma or certificate. There are maximum periods and in some cases minimum periods of can-

didature depending on the award course and whether the candidate is a full-time or part-time student.

Census date

The date at which a student's enrolment, load and HECS liability are finalised before this information is reported to DEST. (See also HECS.)

Ceremony

(See Graduation ceremony.)

Chancellor

The non-executive head of the University. An honorary position, the Chancellor presides over meetings of the University's governing body, the Senate, and important ceremonial occasions such as graduations.

Clinical experience

Students undertake clinical placements in a professional environment as part of their course requirements. Many require University approved supervision. In order to undertake clinical placements a student may be required to fulfil additional requirements.

College of Health Sciences

Consists of the Faculties of Dentistry; Health Sciences; Medicine; Nursing; and Pharmacy.

College of Humanities and Social Sciences (CHASS)

Consists of the Faculties of Arts; Economics and Business; Education; Law; the Sydney College of the Arts; and the Sydney Conservatorium of Music.

College of Sciences and Technology (CST)

Consists of the Faculties of Agriculture, Food and Natural Resources; Architecture; Engineering; Rural Management; Science; and Veterinary Science.

Combined course

A course which leads to two awards. For example the Arts/Law course leads to the separate awards of Bachelor of Arts and Bachelor of Laws.

Combined degree

A combined degree is a single program with a single set of course resolutions leading to the award of two degrees (unless otherwise specified in the resolutions). (See also Combined course.)

Commencement date

The date a student commences candidature.

Compulsory subscriptions

Each enrolled student is liable to pay annual (or semester) subscriptions, as determined by the Senate, to the student organisations at the University. There are different organisations for undergraduate and postgraduate students.

The student organisations are specific to different campuses. The organisations at campuses other than Camperdown and Darlington include: the Conservatorium Student Association, the Cumberland Student Guild, the Orange Agricultural College Student Association and the Student Association of Sydney College of the Arts. (See also Compulsory subscription exemption, Joining fee, Life membership.)

Compulsory subscription exemption

Students of a certain age or those with disabilities or medical conditions may be exempt from the subscription to the sports body.

Conscientious objectors to the payment of subscriptions to unions of any kind may apply to the Registrar for exemption. The Registrar may permit such a student to make the payment to the Jean Foley Bursary Fund instead. (See also Compulsory subscriptions.)

Confirmation of Enrolment form (COE)

This form is issued to each student after enrolment, showing the course and the units of study in which the student is enrolled, together with the credit point value of the units of study and the HECS weights. Until all fees are paid, it is issued provisionally.

A new confirmation of enrolment form is produced every time a student's enrolment is varied.

Conjoint ventures

Two or more institutions cooperate to provide a unit or course of study to postgraduate coursework students. Arrangements exist between individual departments at the University of Sydney and individual departments at the University of New South Wales (UNSW) and the University of Technology Sydney (UTS), whereby students enrolled for a degree at one institution complete one or more units of study at the other institution to count towards the award program at their "home" institution.

Continuing professional education

A process which provides a number of programs of continuing education courses for professionals as they move through their career. These programs are presently administered by the Centre for Continuing Education and a number of departments and foundations across the University. This process supports the whole of life learning concept and involves the maintenance of a long term relationship between the student and the University.

Convocation

The body comprising all graduates of the University.

Core unit of study

A unit of study that is compulsory for a particular course or subject area. (See also Unit of study.)

Corequisite

A unit of study which must be taken in the same semester or year as a given unit of study (unless it has already been completed). These are determined by the faculty or board of studies concerned, published in the faculty handbook and shown in FlexSIS. (See also Prerequisite, Waiver.)

Cotutelle Scheme

Agreement between the University and any overseas university for joint supervision and examination of a PhD student as part of an ongoing cooperative research collaboration. If successful, the student receives a doctorate from both universities with each testamur acknowledging the circumstances under which the award was made.

Course

An undertaking of study at the University of Sydney

Award course

A formal course of study that will see attainment of a recognised award. Award courses are approved by Senate, on the recommendation of the Academic Board. The University broadly classifies courses as undergraduate, postgraduate coursework or postgraduate research. (See also Bachelor's degree, Course rules, Diploma, Doctorate, Major, Master's degree, Minor, PhD, Stream.)

Non-award course

Studies undertaken by students who are not seeking an award from the University. (See also Cross-institutional enrolment.)

Coursework

An award course not designated as a research award course. While the program of study in a coursework award course may include a component of original, supervised, other forms of instruction and learning normally will be dominant.

Research

A course in which at least 66 per cent of the overall course requirements involve students in undertaking supervised research, leading to the production of a thesis or other piece of written or creative work, over a prescribed period of time.

Course alias

A unique five character alpha-numeric code which identifies a University course.

Course code

(See Course alias.)

Course enrolment status

A student's enrolment status in a course is either "enrolled" or "not enrolled". "Not enrolled" reasons include: cancelled; suspended; under examination; or terminated. (See also Cancellation, Candidature, Course leave, Enrolment, Enrolment variation, Terminated, Under examination.)

Course leave

Students are permitted to apply for a period away from their course without losing their place. Course leave is formally approved by the supervising faculty for a minimum of one semester. Students on leave are regarded as having an active candidature, but they are not entitled to a student card. At undergraduate level, leave is not counted towards the total length of the course. Students who are absent from study without approved leave may be discontinued and may be required to formally reapply for admission. (See also Progression.)

Course rules

Rules which govern the allowable enrolment of a student in a course. Course rules may be expressed in terms of types of units of study taken, length of study, and credit points accumulated, e.g. a candidate may not enrol in units of study having a total value of more than 32 credit points per semester. Course rules also govern the requirements for the award of the course, e.g. a candidate must have completed a minimum of 144 credit points. (See also Award course, Corequisite, Prerequisite.)

Course suspension

See Course leave.

Course transfer

A transfer occurs when a student changes from one course in the University to another course in the University without the requirement for an application and selection process (e.g. from a PhD to a master's program in the same faculty).

Credit

The recognition of previous studies successfully completed at this University, or another university or tertiary institution recognised by the University of Sydney, as contributing to the requirements of the course to which the applicant requesting such recognition has been admitted. Credit may be granted as specified credit or non-specified credit.

Specified credit
The recognition of previously completed studies as directly equivalent to units of study.

Non-specified credit
A "block credit" for a specified number of credit points at a particular level. These credit points may be in a particular subject area but are not linked to a specific unit of study.
(See also AAM - Annual average mark, Waiver, Weighted average mark (WAM).)

Credit points

The value of the contribution each unit of study provides towards meeting course completion requirements. Each unit of study will have a credit point value assigned to it. The total number of credit points required for completion of award courses will be specified in the Senate Resolutions relevant to the award course.

Cross-institutional enrolment

An enrolment in units of study at one university to count towards an award course at another university. Cross-institutional enrolments incur a HECS liability or tuition fee charge at the institution at which the unit of study is being undertaken. Students pay compulsory subscriptions to one university only (usually their home university, i.e. the university which will award their degree). (See also Non-award course).

Course enrolment status

A student's enrolment status in a course is either "enrolled" or "not enrolled". "Not enrolled" reasons include: cancelled, suspended, under examination or terminated. (See also Cancellation, Candidature, Course leave, Enrolment, Enrolment variation, Terminated, Under examination.)

D

The Data Audit Committee's role is to oversee the integrity and accuracy of the course and unit of study data as strategic University data. It also advises the Academic Board on suggested policy changes related to course and unit of study data. A sub-committee of the VCAC Enrolment Working Party, it is chaired by the Registrar, with membership including the deans, the Student Centre, FlexSIS and the Planning Support Office.

Deadlines (Enrolment variations)

(See Enrolment variation.)

Deadlines (Fees)

The University has deadlines for the payment of fees (e.g. HECS, compulsory subscriptions, course fees). Students who do not pay fees by these deadlines may have their enrolment cancelled or they may have a barrier placed on the release of their record. (See also Barrier, Cancellation.)

Dean

The head of a faculty, or the principal or director of a college (such as the Sydney Conservatorium of Music or the Sydney College of Arts).

Dean's certificate

A statement from the Dean certifying that all requirements, including fieldwork and practical work, have been met and that the student is eligible to graduate. Not all faculties use Dean's Certificates. In faculties that do, qualified students have "Dean's Certificate" noted on their academic record.

Deferment (Deferral)

See Admission (deferment), Course leave.

Degree

See also Award course, Bachelor's degree.

Delivery mode

Indicates how students receive the instruction for a unit of study. The delivery mode must be recorded for each unit as distinct from the attendance mode of the student, i.e. an internal student may take one or more units by distance mode and an external student may attend campus for one or more units.

Distance education
Where subject matter is delivered in a more flexible manner, such as correspondence notes, and student may only attend campus if required. (See also Extended semester, Distance education, International - off shore.)

Intensive on campus
Core content is delivered with support learning in an intensive (one or more days) format on campus. Participation is usually compulsory. Previously this may have been called residential, block mode, or weekend workshop.

On campus (normal)
Attendance of scheduled lectures, tutorials etc at a campus of the University.

Department

(See School.)

Department of Education, Science and Training (DEST)
The Commonwealth Government department responsible for higher education.

Differential HECS
(See Higher Education Contribution Scheme (HECS).)

Diploma
The award granted following successful completion of diploma course requirements. A diploma course usually requires less study than a degree course. (See also Award course.)

Direct admissions
For some courses, applications may be made directly to the University. Applications are received by faculties or the International Office, and considered by the relevant department or faculty body. Decisions are recorded and letters are forwarded to applicants advising them of the outcome. (See also Admission, UAC.)

Disability information
Students may inform the University of any temporary or permanent disability which affects their life as a student. Disability information is recorded but it is only available to particular authorised users because of its sensitive nature.

Disciplinary action
Undertaken as the result of academic or other misconduct, e.g. plagiarism, cheating, security infringement, criminal activity.

Discipline
A defined area of study, for example, chemistry, physics, economics.

Discipline group
A DEST code used to classify units of study in terms of the subject matter being taught or being researched.

Discontinuation (course)
(See Enrolment variation.)

Discontinuation (unit of study)
(See Enrolment variation.)

Dissertation
A written exposition of a topic which may include original argument substantiated by reference to acknowledged authorities. It is a required unit of study for some postgraduate award courses in the faculties of Architecture and Law.

Distance education
Where a student does not attend campus on a daily basis for a given course or unit of study. (See also Delivery mode, Extended semester.)

Doctorate
A high-level postgraduate award. A doctorate course normally involves research and coursework; the candidate submits a thesis that is an original contribution to the field of study. Entry to a doctorate course often requires completion of a Master's degree course. Note that the doctorate course is not available in all departments at the University. (See also Award course, PhD.)

Domestic Student
A student who is not an international student. See also Local student.)

Double degree
A double degree is a program where students are permitted by participating faculties (and/or by specific resolutions within a single award) to transfer between courses in order to complete two awards.

Downgrade
Where a student enrolled in a PhD reverts to a master's by research, either on the recommendation of the University on the basis that the research they are undertaking is not at an appropriate level for a PhD; or at the student's own request, for personal or academic reasons.

E

Earliest date
(See Research candidature.)

Equivalent full-time student unit (EFTSU)
The equivalent full-time student unit (EFTSU) is a measure of student load based on the workload for a student undertaking a full year of study in a particular course. A student is then recorded as having generated one EFTSU. (See also Load, Stage.)

Equivalent full-time student load (EFTSL)
The equivalent full-time student load (EFTSL) for a year. It is a measure, in respect of a course of study, of the study load for a year of a student undertaking that course of study on a full-time basis, (effective 1 January 2005)

Embedded courses
Award courses in the Graduate Certificate, Graduate Diploma and Master's degree by coursework sequence which allow unit of study credit points to count in more than one of the awards, e.g. the Graduate Certificate in Information Technology, Graduate Diploma in Information Technology and Master of Information Technology.

Enrolment
A student enrols in a course by registering with the supervising faculty in the units of study to be taken in the coming year, semester or session.

Commencing
An enrolment is classified as commencing if a student has enrolled in a particular degree or diploma for the first time.

Continuing
Students already in a course at the University re-enrol each year or semester. Most continuing students are required to pre-enrol. (See also Pre-enrolment.)

Enrolment list
A list of all currently enrolled students in a particular unit of study. (See also Unit of study.)

Enrolment status
(See Course enrolment status.)

Enrolment Variation
Students may vary their enrolment at the beginning of each semester. Each faculty determines its deadlines for variations, but HECS liability depends on the HECS census date. (See also HECS.)

Examination
A set of questions or exercises evaluating on a given subject given by a department or faculty. (See Examination period, Assessment.)

Examination period
The time set each semester for the conduct of formal examinations.

Examiner (Coursework)
The person assessing either the written/oral examination, coursework assignments, presentations, etc of a student or group of students.

Exchange student
Either a student of the University of Sydney who is participating in a formally agreed program involving study at an overseas university or an overseas student who is studying here on the same basis. The International Office provides administrative support for some exchanges.

Exclusion
A faculty may ask a student whose academic progress is considered to be unsatisfactory to "show good cause" why the student should

be allowed to re-enrol. If the faculty deems the student's explanation unsatisfactory, or if the student does not provide an explanation, the student may be excluded either from a unit of study or from a course or faculty. An excluded student may apply to the faculty for permission to re-enrol. Normally, at least two years must have elapsed before such an application would be considered.

University policy relating to exclusion is set out in the University Calendar. (See also Progression, Senate appeals.)

Exemption

A decision made at a sub-unit of study level to allow a student to complete a unit of study without also completing all the prescribed components of coursework and/or assessment. (See also Credit, Waiver.)

Expulsion

The ultimate penalty of disciplinary action is to expel the student from the University. The effect of expulsion is:

- the student is not allowed to be admitted or to re-enrol in any course at the University;
- the student does not receive their results;
- the student is not allowed to graduate; and
- the student does not receive a transcript or testamur.

Extended semester

A distance-learning student may be allowed more time to complete a module or program if circumstances beyond the student's control, e.g. drought, flood or illness, affect the student's ability to complete the module or program in the specified time. (See also Distance education.)

External

(See Attendance mode, Distance education.)

External transcript

A certified statement of a student's academic record printed on official University security paper. It includes the student's name, any credit granted, all courses the student was enrolled in and the final course result and all units of study attempted within each course together with the result. It also acknowledges prizes the student has received. Marks can be included or omitted, as required. (See also Academic transcript, Internal transcript.)

F

Faculty

A formal part of the University's academic governance structure, consisting mainly of academic staff members and headed by a dean, which is responsible for all matters concerning the award courses that it supervises. Usually, a faculty office administers the faculty and student or staff inquiries related to its courses. The University Calendar sets out the constitution of each of the University's faculties. (See also Board of Studies, Supervising faculty.)

Fee-paying students

Students who pay tuition fees to the University and are not liable forHECS.

Flexible learning

(See Delivery mode, Distance education.)

Flexible start date

Full fee-paying distance students are not restricted to the same enrolment time frames as campus-based or HECS students.

Flexible Student Information System (FlexSIS)

The computer-based Flexible Student Information System at the University of Sydney. FlexSIS holds details of courses and units of study being offered by the University and the complete academic records of all students enrolled at the University.

Formative assessment

(See Assessment.)

Full-time student

(See also Attendance pattern, EFTSU.)

G

Grade

The outcome for a unit of study linked with a mark range. For example, a mark in the range 85-100 attracts the grade "high distinction" ("HD"). (See also Mark.)

Grade	Description	Comment
HD	High distinction	A mark of 85-100.
D	Distinction	A mark of 75-84.
CR	Credit	A mark of 65-74.
P	Pass	A mark of 50-64.
R	Satisfied requirements	This is used in pass/fail only outcomes.
UCN	Unit of study continuing	Used at the end of semester for units of study that have been approved to extend into a following semester. This will automatically flag that no final result is required until the end of the last semester of the unit of study.
PGON	Pass (concessional)	A mark of 46-49. Use of this grade is restricted to those courses that allow for a concessional pass of some kind to be awarded. A student may re-enrol in a unit of study for which the result was PCON. Each faculty will determine and state in its course regulations what proportion, if any, may count - e.g. "no more than one sixth of the total credit points for a course can be made up from PCON results".
F	Fail	A mark of 0-49. This grade may be used for students with marks of 46-49 in those faculties which do not use PCON.
AF	Absent fail	Includes non-submission of compulsory work (or non-attendance at compulsory labs, etc) as well as failure to attend an examination.
W	Withdrawn	Not recorded on an external transcript. This is the result that obtains where a student applies to discontinue a unit of study by the HECS census date (i.e. within the first four weeks of enrolment).
DNF	Discontinued - not to count as failure	Recorded on external transcript. This result applies automatically where a student discontinues after the HECS census date but before the end of the seventh week of the semester (or before half of the unit of study has run, in the case of units of study which are not semester-length). A faculty may determine that the result of DNF is warranted after this date if the student has made out a special case based on illness or misadventure.
INC	Incomplete	This result is used when examiners have grounds (such as illness or misadventure) for seeking further information or for considering additional work from the student before confirming the final result. Except in special cases approved by the Academic Board, this result will be converted to a normal permanent passing or failing grade either: by the dean at the review of examination results conducted pursuant to section 2 (4) of the Academic Board policy "Examinations and Assessment Procedures"; or automatically to an AF grade by the third week of the immediately subsequent academic session. Deans are authorised to approve the extension of a MESTC grade for individual students having a valid reason for their incomplete status.
UCN	Incomplete	A MINC or INC grade is converted, on the advice of the dean, to UCN when all or many students in a unit of study have not completed the requirements of the unit. The students may be engaged in practicum or clinical placements, or in programs extending beyond the end of semester (e.g. Honours).

Graduand

A student who has completed all the requirements for an award course but has not yet graduated. (See also Graduation, Potential graduand.)

Graduate

A person who holds an award from a recognised tertiary institution. (See also Graduand, Graduation.)

Graduate Certificate

(See Award course.)

Graduate Diploma

(See Award course.)

Graduation

The formal conferring of awards either at a ceremony or in absentia. (See also In absentia, Potential graduand.)

Graduation ceremony

A ceremony where the Chancellor confers awards upon graduands.

Group work

Means a formally established project to be conducted by a number of students in common, resulting in a single piece of assessment or a number of associated pieces of assessment. (See also Legitimate cooperation.)

H

Head of department (HOD)

The head of the academic unit which has responsibility for the relevant unit of study, or equivalent program leader.

Higher doctorates

See Award course.

HECS (Higher Education Contribution Scheme)

All students, unless they qualify for an exemption, are obliged to contribute towards the cost of their education under the Higher Education Contribution Scheme. These contributions are determined annually by the Commonwealth Government. This scheme will cease in its current form from 1 January, 2005.

Honorary degrees

A degree *honoris causa* (translated from the Latin as "for the purpose of honouring") is conferred on a person whom the University wishes to honour. Long-standing full-time members of the University's academic staff who are not graduates of the University may be considered by Senate, upon their retirement, for admission ad eundem gradum, to an appropriate degree of the University.

Honours

Some degrees may be completed "with Honours". This may involve either the completion of a separate Honours year or additional work in the later years of the course or meritorious achievement over all years of the course. Honours are awarded in a class (Class I, Class II - which may have two divisions or, Class **III).**

NSW Higher School Certificate (HSC)

The NSW Higher School Certificate (HSC), which is normally completed at the end of year 12 of secondary school. The UAI (Universities Admission Index) is a rank out of 100 that is computed from a student's performance in the HSC.

I

In absentia

Latin for "in the absence of". Awards are conferred in absentia when graduands do not, or cannot, attend the graduation ceremony scheduled for them. Those who have graduated in absentia may later request that they be presented to the Chancellor at a graduation ceremony. (See also Graduation.)

Instrumental supervisor / teacher

All students at the Sydney Conservatorium of Music and BMus students on the Camperdown Campus have an instrumental teacher appointed. (See also Advisor, Associate supervisor, Research supervisor, Supervision.)

Internal mode

(See Attendance mode.)

Internal transcript

A record of a student's academic record for the University's own internal use. It includes the student's name, student identifier (SID), address, all courses in which the student was enrolled and the final course result, and all units of study attempted within each course together with the unit of study result. (See also Academic transcript, External transcript.)

International student

Any student who is not an Australian or New Zealand citizen or a permanent resident of Australia is an international student. An international student is required to hold a visa that allows study in Australia and may be liable for international tuition fees.

Fee-paying

A private International Student who is liable to pay tuition fees for their studies with the University.

Fee-paying - Outgoing exchange

An international fee-paying student undertaking short term study at a recognised overseas institution with which the University has a student exchange agreement. Exchange study counts towards the student's University of Sydney award and students remain enrolled in their University of Sydney course during the period of exchange.

International - cross-institutional

An international fee paying student undertaking non-award study at the University on a cross-institutional basis. They are liable to pay fees for the study they undertake at the University, but there is no compliance reporting requirement, which rests with their "home" institution.

International - Sponsored

A private international student who is fully sponsored for his/her tuition; his/her sponsorship may also cover Overseas Health Cover and Compulsory Subscriptions.

Offshore studies

International offshore students undertake their program of study at one of the University's offshore campuses and hence do not enter Australia; therefore they do not require a visa. The are distinct from international students who are on outbound exchange programs as they never enter Australia during their program of study.

Short course

An international fee-paying student undertaking a short course with the University of Sydney comprising such programs as international development programs, executive training or study visits. The study undertaken by these students is non-award and generally a student visa is not required.

Sponsored award

An international student sponsored by the Australian government, undertaking a program of study at the University. Currently Australian Development Scholarships holders, funded by AusAID, are the only students in this category. These students are fully sponsored for their tuition and other costs such as travel and health cover, and are paid a stipend.

Study Abroad

An international student who is undertaking short-term study at the University under the Study Abroad scheme. Study Abroad students must have completed at least one year of study towards a degree at a recognised institution in their home country and are continuing towards the degree of their home institution.

(See also Local student, Student type.)

J

Joining fee

Students enrolling for the first time pay a joining fee in addition to the standard subscription for the University of Sydney Union or equivalent student organisation. (See also Compulsory subscription.)

L

Leave

See Course leave.

Legitimate cooperation

Any constructive educational and intellectual practice that aims to facilitate optimal learning outcomes through interaction between students. (See also Group work.)

Life membership

Under some circumstances (e.g. after five full-time years of enrolments and contributions) students may be granted life membership of various organisations. This means they are exempt from paying yearly fees. (See also Compulsory subscriptions.)

Load

The sum of the weights of all the units of study in which a student is enrolled. The weight is determined by the proportion of a full year's work represented by the unit of study in the degree or diploma for which the student is a candidate. Student load is measured in terms of Equivalent full-time student units (EFTSU). (See also Equivalent full-time student units (EFTSU).)

Local Student

Either an Australian or New Zealand citizen or Australian permanent resident. New Zealand citizens are required to pay their Higher Education Contribution Scheme (HECS) fees upfront. (See also Domestic student, HECS, International student.)

M

Major

A field of study, chosen by a student, to represent their principal interest this would consist of specified units of study from later stages of the award course. Students select and transfer between majors by virtue of their selection of units of study. One or more majors may be awarded upon the graduands assessment of study. (See also Award course, Minor, Stream.)

Major timetable clash

The term used when a student attempts to enrol in units of study which have so much overlap in the teaching times that it has been decided that students must not enrol in the units simultaneously.

Mark

An integer (rounded if necessary) from 0 to 100 indicating a student's performance in a unit of study. (See also Grade.)

Master's degree

A postgraduate award. Master's degree courses may be offered by coursework, research only or a combination of coursework and research. Entry to the course often requires completion of an honours year at an undergraduate level. (See also Award course.)

Method of candidature

A course is either a research course or a coursework course and so the methods of candidature are "research" and "coursework". (See also Course - coursework, Course - research.)

Minor

Studies undertaken to support a Major. Requiring a smaller number of credit points than a major students select and transfer between minors (and majors) by virtue of their selection of units of study. One or more minors may be awarded upon the graduand's assessment of study. (See also Award course, Major, Stream.)

Mixed mode

(See Attendance mode.)

Mutually exclusive units of study

(See Prohibited combinations of units of study.)

N

Non-award course

(See Course.)

Non-standard session

A teaching session other than the standard February and August sessions - e.g. Summer School, in which units of study are delivered and assessed in an intensive mode during January. (See also Semester, Session.)

O

Orientation Week

Orientation or "O Week", takes place in the week before lectures begin in Semester One. During O Week, students can join various clubs, societies and organisations, register for courses with departments and take part in activities provided by the University of Sydney Union.

P

Part-time student

(See Attendance mode, Attendance pattern, Equivalent full-tme student units (EFTSU).)

Permanent home address

The address used for all official University correspondence with a student, both inside and outside of semester time (e.g. during semester breaks), unless the student provides a different overridden by semester address for use during the semester. (See also Semester address.)

PhD

The Doctor of Philosophy (PhD) and other doctorate awards are the highest awards available at the University. A PhD course is normally purely research-based; the candidate submits a thesis that is an original contribution to the field of study. (See also Award course, Doctorate.)

Plagiarism

Presenting another person's ideas, findings or work as one's own by copying or reproducing them without the acknowledgement of the source. (See also Academic dishonesty.)

Postgraduate

A term used to describe a course leading to an award such as graduate diploma, a Master's degree or PhD which usually requires prior completion of a relevant undergraduate degree (or diploma) course. A "postgraduate" is a student enrolled in such a course. (See also Course - Coursework, Course - Research)

Postgraduate Education Loans Scheme (PELS)

An interest-free loans facility for eligible students who are enrolled in fee-paying, postgraduate non-research courses. It is similar to the deferred payment arrangements available under the Higher Education Contribution Scheme (HECS). This scheme will cease in this manner from 1 January, 2005, and will be replaced by the FEE-HELP scheme.

Potential graduand

A student who has been identified as being eligible to graduate on the satisfactory completion of their current studies. (See also Graduand, Graduation.)

Pre-enrolment

Pre-enrolment - also known as provisional re-enrolment - takes place in October, when students indicate their choice of unit of study enrolment for the following year. After results are approved, pre-enrolment students are regarded as enrolled in those units of study for which they are qualified. Their status is "enrolled" and remains so provided they pay any money owing and comply with other requirements by the due date. Students who do not successfully pre-enrol in their units of study for the next regular session are required to attend the University on set dates during the January/February enrolment period. (See also Enrolment.)

Prerequisite

A unit of study that is required to be successfully completed before another unit of study can be attempted. Prerequisites can be mandatory (compulsory) or advisory. (See also Assumed knowledge, Corequisite, Waiver, Qualifier.)

Prizes

Awarded in recognition of outstanding performance, academic achievement or service to the community or University.

Probationary candidature

A student who is enrolled in a postgraduate course on probation for a period of time up to one year. The head of department is required to consider the candidate's progress during the period of probation and make a recommendation for normal candidature or otherwise to the faculty.

Professional practice

Students undertake placement in a professional practice as a part of their course requirements. May require University approved supervision. Professional placements are located in a wide range of professional practices environments, and may not require additional criteria to be fulfilled.

Progression

Satisfactory progression is satisfying all course and faculty rules (normally assessed on an annual basis) to enable the completion of the chosen award within the (maximum) completion time allowed. (See also Exclusion.)

Prohibited combinations of units of study

When two or more units of study contain a sufficient overlap of content, enrolment in any one such unit prohibits enrolment in any other identified unit. (See also unit of study.)

Provisional re-enrolment

See Pre-enrolment.

Q

Qualification

An academic attainment recognised by the University.

Qualifier

A mandatory (compulsory) prerequisite unit of study which must have a grade of pass or better. (See also Assumed knowledge, Corequisite, Prerequisite, Waiver.)

R

Recycling

The submission for assessment of one's own work, or of work which substantially the same, which has previously been counted towards the satisfactory completion of another unit of study, and credited towards a university degree, and where the examiner has not been informed that the student has already received credit for that work.

Registration

In addition to enrolling with the faculty in units of study, students must register with the department responsible for teaching each unit. This is normally done during Orientation Week. Note that unlike enrolment, registration is not a formal record of units attempted by the student.

Research course

See Course - research.

Research supervisor

A supervisor is appointed to each student undertaking a research postgraduate degree. The supervisor will be a full-time member of the academic staff or a person external to the University recognised for their association with the clinical teaching or the research work of the University. A research supervisor is commonly referred to as a supervisor. (See also Advisor, Associate supervisor, Instrumental supervisor/teacher, Supervision.)

Result processing

Refers to the processing of assessment results for units of study. For each unit of study, departments tabulate results for all assessment activities and assign preliminary results. (See also Assessment, Formative assessment, Examination period, Summative assessment)

Result processing schedule

The result processing schedule will be determined for each academic cycle. All departments and faculties are expected to comply with this schedule. (See also Assessment, Examination period, Result processing.)

Result

The official statement of a student's performance in each unit of study attempted as recorded on the academic transcript, usually expressed as a mark and grade. (See also Grade, Mark.)

Research Training Scheme (RTS)

The RTS provides Commonwealth-funded higher degree by research (HDR) students with an "entitlement" to a HECS exemption for the duration of an accredited HDR course, up to a maximum period of four years full-time equivalent study for a doctorate by research and two years full-time equivalent study for a master's by research.

S

Scholarships

Financial or other form of support made available to enable students to further their studies. (See also Bursaries.)

School

A school or academic unit shall encourage and facilitate teaching, scholarship and research and coordinate the teaching and examining duties of members of staff in the subjects or courses of study with which it is concerned.

Semester

A half-yearly teaching session whose dates are determined by the Academic Board. Normally all undergraduate sessions will conform to the semesters approved by the Academic Board. Any offering of an undergraduate unit not conforming to the semester dates (non-standard session) must be given special permission by the Academic Board. (See also Session, Non-standard session.)

Semester address

The address to which all official University correspondence is sent during semester time, if it is different to the permanent address.

Senate

The governing body of the University. (See the University Calendar for more details of its charter and powers.)

Senate appeals

Senate appeals are held for those students who, after being excluded by a faculty from a course, appeal to the Senate for readmission. While any student may appeal to the Senate against an academic decision, such an appeal will normally be heard only after the student has exhausted all other avenues, i.e. the department, faculty, board of study and, in the case of postgraduates, the Committee for Graduate Studies. (See also Exclusion.)

Session

Any period of time during which a unit of study is taught. A session differs from a semester in that it need not be a six-month teaching period, but it cannot be longer than six months. Each session maps to either Semester One or Two for DEST reporting purposes. Session offerings are approved by the relevant dean, taking into account all the necessary resources, including teaching space and staffing. The Academic Board must approve variation to the normal session pattern. (See also Semester, Non-standard teaching period.)

Session address

(See Semester address.)

Short course

A fee paying student undertaking a short course with the University of Sydney comprising professional development, executive training etc. The study undertaken by these students is a non-award course.

Show cause

(See Progression, Exclusion.)

Special consideration

Candidates who suffer serious illness or misadventure which may affect performance in any assessment, may request that they be given special consideration in relation to the determination of their results.

Sponsorship

Financial support of a student by a company or government body.

Stage

A normal full-time course of study taken in a year. (See also Course rules, EFTSU, Progression.)

Stream

A defined award course, which requires the completion of set units of study as specified by the course rules for the particular stream, in addition to the core program specified by the course rules. A stream will appear with the award course name on testamurs, e.g. Bachelor of Engineering in Civil Engineering (Construction Management). (See also Award course, Major, Minor.)

Student

Student means a person enrolled as a candidate for an award course or unit of study.

Student identifier (SID)

A nine-digit number which uniquely identifies a student at the University.

Student ID Card

All students who enrol are issued with an identification card. The card includes the student's name, SID, the course code, a library borrower's bar code and a passport-style photo. The card identifies the student as eligible to attend classes and must be displayed at formal examinations. It must be presented to secure student concessions and to borrow books from all sections of the University Library.

Student progress rate (SPR)

A calculation which measures the rate at which load undertaken is passed annually in each award program.

Student type

Student type identifies whether a student is local or international and the type of study the student is undertaking. (See also International student, Domestic student, Exchange student.)

Study Abroad program

A scheme administered by the International Office which allows international students who are not part of an exchange program to take units of study at the University of Sydney, but not towards an award program. In most cases the units of study taken here are credited towards an award at their home institution. (See also Exchange student.)

Subject area

A unit of study may be associated with one or more subject areas. The subject area can be used to define prerequisite and course rules, e.g. the unit of study "History of Momoyama and Edo Art" may count towards the requirements for the subject areas "Art History and Theory" and "Asian Studies".

Summative assessment

See Assessment.

Summer School

(See Sydney Summer School.)

Supervising faculty

The faculty which has the responsibility for managing the academic administration of a particular course, i.e. the interpretation and administration of course rules, approving students' enrolments and variations to enrolments. Normally the supervising faculty is the faculty offering the course. However, in the case of combined courses, one of the two faculties involved will usually be designated the supervising faculty. Further, in the case where one course is jointly offered by two or more faculties (e.g. the Liberal Studies course), a joint committee may make academic decisions about candidature and the student may be assigned a supervising faculty for administration.

Supervision

Refers to a one-to-one relationship between a student and a nominated member of the academic staff or a person specifically appointed to the role. (See also Advisor, Associate supervisor, Instrumental supervisor/teacher, Research supervisor.)

Suppression of results

Results for a particular student can be suppressed by the University when the student has an outstanding debt to the University; or the student is facing disciplinary action. A student may also request a suppression for personal reasons.

Suspension

(See Course leave.)

Sydney Summer School

A program of accelerated, intensive study running for approximately six weeks during January and February each year. Both undergraduate and postgraduate units are offered. Summer School provides an opportunity for students at Sydney and other universities to catch up on needed units of study, to accelerate completion of a course or to undertake a unit that is outside their award course. All units attract full fees and enrolled students are also liable for compulsory subscriptions. Some fee-waiver scholarships are available.

T

Teaching department

(See School.)

Teaching end date

Official finish date of formal timetabled classes.

Teaching start date
Official commencement date of formal timetabled classes.

Terminated
Term used when a student's candidature has been officially closed because they are not able to complete the Course requirements. (See also Candidature.)

Testamur
A certificate of award provided to a graduand, usually at a graduation ceremony. The Award conferred will be displayed along with other appropriate detail.

Thesis
A major work that is the product of an extended period of supervised independent research. (See also Course - research.)

Timetable
The schedule of lectures, tutorials, laboratories and other academic activities that a student must attend.

Transcript
(See Academic transcript.)

Transfer
(See Course transfer.)

Tuition fees
Tuition fees may be charged to students in designated tuition fee-paying courses. Students who pay fees are not liable for HECS.

U

Universities Admissions Centre (UAC)
The UAC receives and processes applications for admission to undergraduate courses at recognised universities in NSW and the ACT. Most commencing, local undergraduate students at the University apply through the UAC.

Universities Admission Index (UAI)
A measure of overall academic achievement in the HSC that assists universities in ranking applicants for university selection. The UAI is based on the aggregate of scaled marks in ten units of the HSC, and is a number between 0.00 and 100.00 with increments of 0.05.

Under examination
Indicates that a research student has submitted their written work (thesis) for assessment, and is awaiting the finalisation of the examiners' outcome and recommendation.

Undergraduate
A term used to describe both a course leading to a diploma or bachelor's degree and a student enrolled in such a course.

Unit of study
Unit of study or unit means a stand-alone component of an award course. Each unit of study is the responsibility of a department. (See also Prohibited combinations of unit of study.)

Unit of study enrolment status
The enrolment status indicates whether the student is still actively attending the unit of study (i.e. currently enrolled) or is no longer enrolled. (See also [#discon||Discontinuation]] or Cancellation.)

Unit of study level
Units of study are divided into Junior, Intermediate, Senior, Honours, Year 5, and Year 6. Most majors consist of 32 Senior credit points in a subject area (either 3000 level units of study or a mix of 2000 and 3000 level units of study).

University
Unless otherwise indicated, University in this document refers to the University of Sydney.

University Medal
A faculty may recommend the award of a University Medal to a student qualified for the award of an undergraduate honours degree (or some master's degrees), whose academic performance is judged to be outstanding.

Upgrade
Where a student enrolled in a Master's by research course is undertaking research at such a standard that either the University recommends that the student upgrade their degree to a PhD, or the student seeks to upgrade to a PhD and this is supported by the University.

USYDnet
The University of Sydney's intranet system. It provides access to other services such as directories (maps, staff and student, organisations), a calendar of events (to which staff and students can submit entries), and a software download area.

V

Variation of enrolment
(See Enrolment variation.)

Vice-Chancellor and Principal
The chief executive officer of the University, responsible for its leadership and management. The Vice-Chancellor and Principal is head of both academic and administrative divisions.

W

Waiver
In a prescribed course, a faculty may waive the prerequisite or corequisite requirement for a unit of study or the course rules for a particular student. Unlike credit, waivers do not involve a reduction in the number of credit points required for a course.
(See also Credit, Exemption.)

Winter School
An intensive session offered by the University during the mid-year break.

Weighted average mark (WAM)
This mark uses the unit of study credit point value in conjunction with an agreed "weight". The formula for this calculation is:

$$WAM = \frac{\sum (W_c \times M_c)}{\sum (W_c)}$$

Where Wc is the weighted credit point value - ie, the product of the credit point value and the level of weighting of 1, 2, 3, or 4 for a first, second, third or fourth year unit of study respectively; and where Mc is the greater of 45 or the mark out of 100 for the unit of study.

The mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark - 0. Pass/Fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included. (Effective from 1 January 2004.)

In addition, faculties may adopt other average mark formulae for specific progression or entry requirements. If such a formula is not specified in the faculty resolutions, the formula outlined above is used. (See also WAM weight.)

WAM weight

A weight assigned to each unit of study to assist in the calculation ofWAMs.

Y

Year of first enrolment (YFE)

The year in which a student first enrols at the University. (See also Commencement date.)

Youth Allowance

Youth Allowance is payable to a full-time student or trainee aged 16-24 years of age who is enrolled at an approved institution such as a school, college, TAFE or university, and undertaking at least 15 hours a week face-to-face contact.

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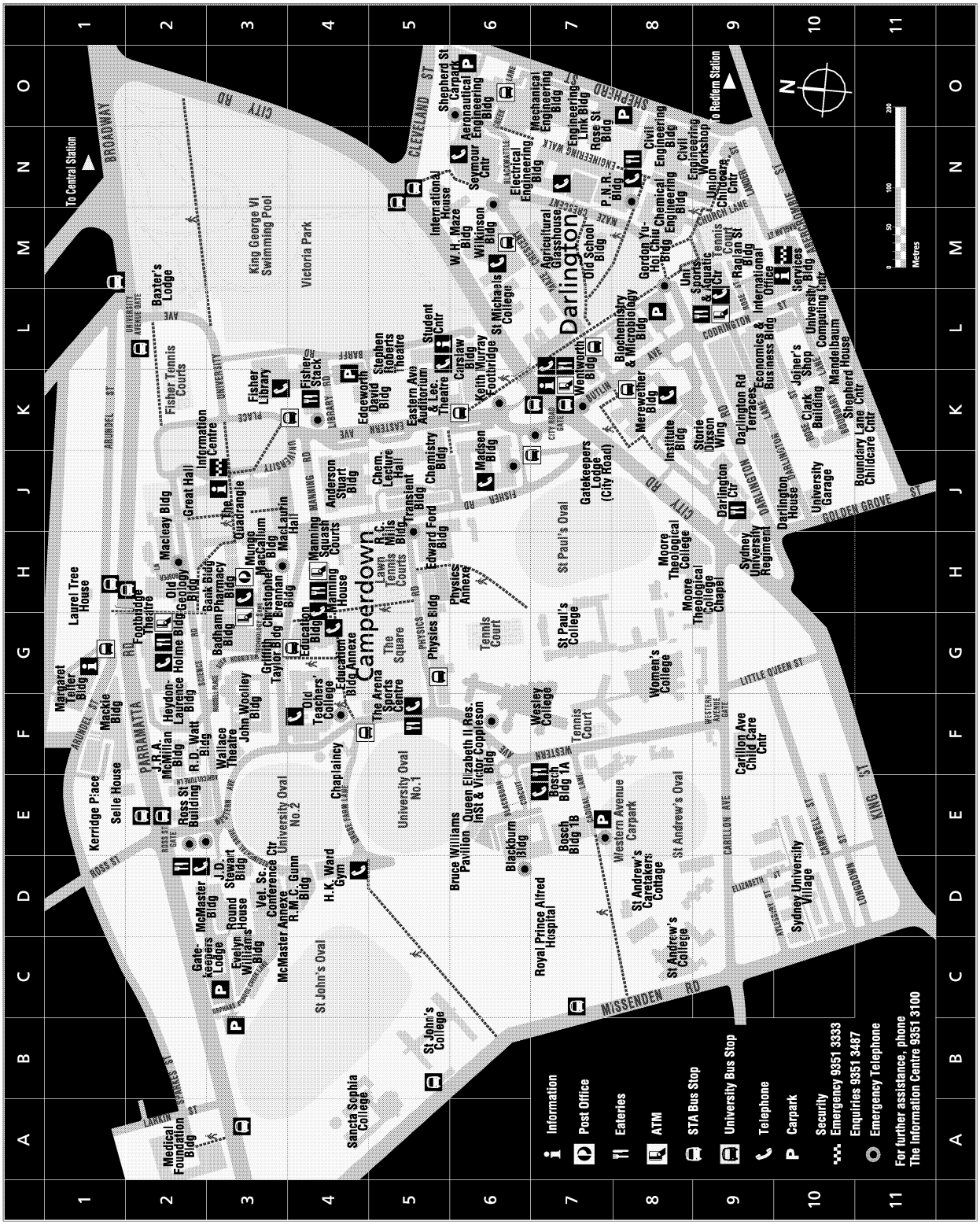
Camperdown / Darlington campus map



University Buildings

06 Aeronautical Engineering Building
J4 Anderson Stuart Building
G3 Badham Building
H3 Bank Building
L2 Baxter's Lodge
L8 Biochemistry and Microbiology Building
E6 Blackburn Building
E7 Bosch Building 1A
E7 Bosch Building IB
E6 Bruce Williams Pavilion
L6 Carslaw Building
F4 Chaplaincy
M8 Chemical Engineering Building
J5 Chemistry Building
H3 Christopher Brennan Building
N8 Civil Engineering Building
N9 Civil Engineering Workshop
K10 Clark Building
J9 Darlington Centre
J10 Darlington House
K9 Darlington Road Terraces
K5 Eastern Avenue Auditorium and Lecture Theatre Complex
L9 Economics and Business Building
K4 Edgeworth David Building
G4 Education Building
G4 Education Building Annexe
H5 Edward Ford Building
N7 Electrical Engineering Building
N7 Engineering Link Building
C3 Evelyn Williams Building
K3 Fisher Library
K4 Fisher Library Stack
C3 Gatekeeper's Lodge
J7 Gatekeeper's Lodge (City Road)
M8 Gordon Yu-Hoi Chui Building
J2 Great Hall
G3 Griffith Taylor Building
D4 H.K.Ward Gymnasium
F2 Hey don-Laurence Building
G2 Holme Building
K8 Institute Building
N5 International House
F2 J.R.A.McMillan Building
D3 LD.Stewart Building
F3 John Woolley Building
Fl Mackie Building
H3 MacLaurin Hall
H2 Macleay Building
Gl Margaret Telfer Building
J6 Madsen Building
H4 Manning House
H4 Manning Squash Courts
D3 McMaster Annexe
D3 McMaster Building
06 Mechanical Engineering Building
A2 Medical Foundation Building
K8 Merewether Building
H3 Mungo MacCallum Building
H2 Old Geology Building
M7 Old School Building
F4 Old Teachers' College
H3 Pharmacy Building
H6 Physics Annexe
G5 Physics Building
N8 P.N.R.Building
E6 Queen Elizabeth II Research Institute
H5 R.C.Mills Building
F2 R.D.Watt Building
D4 R.M.C.Gunn Building
M9 Raglan Street Building
N7 Rose Street Building
E2 Ross Street Building
G2 Science Road Cottage
El Selle House
M10 Services Building
N6 Seymour Centre
K10 Shepherd Centre
06 Shepherd Street Carpark
L5 Stephen Roberts Theatre
K9 Storie Dixson Wing
F5 The Arena Sports Centre
J3 The Quadrangle
J5 Transient Building
L10 University Computing Centre
J10 University Garage
M9 University Sports and Aquatic Centre
D3 Veterinary Science Conference Centre
E6 Victor Coppleson Building
F3 Wallace Theatre
K7 Wentworth Building
E7 Western Avenue Carpark
M6 W.H.Maze Building
M6 Wilkinson Building

Academic Colleges (offices)

H5 Health Sciences
F4 Humanities and Social Sciences
N8 Sciences and Technology

Childcare Centres

K1l Boundary Lane
F9 Carillon Avenue
HI Laurel Tree House
N9 Union

Colleges and Residential Accommodation

J10 Darlington House
K9 Darlington Road Terraces
N5 International House
L10 Mandelbaum House
A4 Sancta Sophia College
C8 St Andrew's College
B5 St John's College
L6 St Michael's College
G7 St Paul's College
El Selle House
D10 Sydney University Village
F7 Wesley College
G8 Women's College

Computer Access Centres (ITS)

G3 Brennan
G4 Education
K3 Fisher
N7 Link
L6 McGrath (Carslaw)
H3 Pharmacy

Cultural Venues

G2 Footbridge Theatre
H2 Macleay Museum
J3 Nicholson Museum
N6 Seymour Centre
K7 Sir Hermann Black Gallery
M6 Tin Sheds Gallery
J2 War Memorial Art Gallery

Faculties (offices)

F2 Agriculture
M6 Architecture
H3 Arts
K8 Economics and Business
G4 Education and Social Work
N7 Engineering
H5 Medicine
H3 Pharmacy
L6 Science
D3 Veterinary Science

Libraries

M6 Architecture
G3 Badham
H5 Burkitt-Ford
K3 Curriculum Resources
N8 Engineering
K3 Fisher
J6 Madsen
L6 Mathematics
E7 Medical
N6 Music
H6 Physics
H5 S chaeffer Fine Arts

Retail

H3 Australia Post Office
H3 Bank Building
J9 Darlington Centre
G2 Holme Building
H4 Manning House
F5 The Arena Sports Centre
M9 University Copy Centre
K7 University Health Service
M9 University Sports and Aquatic Centre
M9 University Co-op Bookshop
D3 Veterinary Hospital and Clinic
K7 Wentworth Building

Security

M10 Emergency Services
M10 Lost Property
J3 Information Centre
M10 Traffic and Parking

Sports and Recreational Venues

K2 Fisher Tennis Courts
D4 HK Ward Gymnasium
H5 Lawn Tennis Courts
H4 Manning Squash Courts
F5 The Arena Sports Centre
G5 The Square
E5 University Oval No 1
E3 University Oval No2
M9 University Sports and Aquatic Centre

Unions and Associations (offices)

K7 Students' Representative Council (SRC)
M9 Sydney University Postgraduate Representative Association (SUPRA)
M9 Sydney University Sport
G2 University of Sydney Union

University Administration and Services

F3 Business Liaison Office
Fl Careers Centre
Gl Cashier
Fl Centre for Continuing Education
H3 Chancellor
L10 Computing Centre
H3 Development, Alumni Relations and Events
M10 Development Services
H2 Executive Offices
J3 Information Centre
L10 Information Technology S ervices
L9 International Office
Gl Personnel
M10 Printing Services (UPS)
H2 Publications Office
H3 Research Office
M10 Room Bookings and Venue Management
Fl Scholarships Unit
L5 Student Centre
Gl Student Housing
G4 Student Services Unit
K8 Summer School
C3 Veterinary Hospital and Clinic
H2 Vice-Chancellor