FACULTY OF ARCHITECTURE, DESIGN AND PLANNING
HANDBOOK 2011

Handbooks online: sydney.edu.au/handbooks
Acknowledgements

The Arms of the University

Sidere mens eadem mutato
Though the constellations change, the mind is universal

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Official course information
Faculty handbooks and their respective online updates, along with the University of Sydney Calendar, form the official legal source of information relating to study at the University of Sydney. Please refer to the following websites:
sydney.edu.au/handbooks
sydney.edu.au/calendar

Amendments
All authorised amendments to this handbook can be found at sydney.edu.au/handbooks/handbooks_admin/updates2011

Resolutions
The Coursework Clause
Resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000 (as amended), which sets out the requirements for all undergraduate courses, and the relevant resolutions of the Senate.

The Research Clause
All postgraduate research courses must be read in conjunction with the relevant rules and resolutions of the Senate and Academic Board, including but not limited to:

1. The University of Sydney (Amendment Act) Rule 1999 (as amended).
2. The University of Sydney (Doctor of Philosophy (PhD)) Rule 2004.
3. The resolutions of the Academic Board relating to the Examination Procedure for the Degree of Doctor of Philosophy.
4. The relevant faculty resolutions.

Disclaimers
1. The material in this handbook may contain references to persons who are deceased.
2. The information in this handbook was as accurate as possible at the time of printing. The University reserves the right to make changes to the information in this handbook, including prerequisites for units of study, as appropriate. Students should check with faculties for current, detailed information regarding units of study.

Price
The price of this handbook can be found on the back cover and is in Australian dollars. The price includes GST.

Handbook availability
Handbooks are available as a website, PDF download and print on demand. See the handbooks website at sydney.edu.au/handbooks for more information.

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Web and Print Production Website: sydney.edu.au/web_print

Printing
SOS Print and Media

Handbook enquiries
For any enquiries relating to the handbook, please email the handbook editors at wpp.info@sydney.edu.au

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NSW 2006 Australia
Phone: +61 2 9351 2222
Website: sydney.edu.au

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<td>International application deadline (for Semester One, 2011) *</td>
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* Except for the faculties of Dentistry, Medicine and the Master of Pharmacy course. See www.accr.edu.au for details.

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</tr>
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A message from the Dean

Welcome to the Faculty of Architecture, Design and Planning at the University of Sydney.

As a student you are joining Australia’s first university and the first faculty in our disciplines, one of the nation’s, and world’s, leading institutions. As well as undertaking a particular course of study or candidature, you are joining a community – a collegiate body – that is a central part of the ‘Sydney Experience’ and a source of great pride for students and staff. It is through this that you obtain a true university experience as opposed to just studying a course. I believe that the quality of this life at Sydney and in the faculty is matched by very few other institutions.

The faculty is a community of fellow students, researchers, technical and support staff, practitioners and lecturers who are here because they are passionate about the human habitat and the creative and analytical methods to improve it, in order to make life better for people. While your initial experience here may be in lectures and the faculty’s social life, I hope that you will progressively engage with our underlying culture, commitments and passion. We want you to come to believe in the value of our disciplines as much as we do.

This handbook sets out the diversity of the faculty’s disciplines and activities. You may begin your journey as an undergraduate in the architecture or design computing programs or as a student in the combined architecture and engineering degree.

At postgraduate level your options extend across many different coursework or research programs including interaction design and electronic arts (IDEA), facilities management, heritage conservation, urban design, urban and regional planning and design science (with streams in audio and acoustics, building services, illumination design and sustainable design). Our professional Master of Architecture qualification is open to qualified graduates not only from our own undergraduate architecture program but also from similar programs across Australia and overseas.

Whichever program you are in you may take the opportunity to explore related fields of study with electives from other programs or combinations of degrees.

The faculty has an outstanding reputation for research across all our disciplines, with an enviable publishing record. It is the home of a number of respected academic journals including Architectural Science Review and Architectural Theory Review, while the Planning Research Centre continues to lead applied research on urban planning issues in New South Wales and Australia.

The range of disciplines which the faculty brings to bear on the environment – architecture, urban and regional planning and policy, architectural science, design, art, media and computing – enables a full understanding of the myriad interrelated factors and issues which constitute key thinking and practice in these fields.

The disciplines are supported by an outstanding range of studios, workshops and laboratories, creating an excellent creative, technical and scientific environment within which you will undertake your work.

Over the past 90 years, the faculty has developed a reputation for innovative thinking in research, teaching and practice across its disciplines. Australia’s first architecture program and the first studies in town planning, starting in 1919, were followed by the world’s first Chair of Architectural Science in 1953 and in 1963 by the award of Australia’s first PhD in architecture. The Design Lab, formerly the Key Centre of Design Computing and Cognition, has an enviable international research reputation, and the Heritage Conservation program has made an important contribution to Australia’s cultural identity.

It is important to mention the high standards required to become a part of this faculty – this community. Selection into the architecture program is largely from the top 5 per cent of NSW’s school leavers. The capability of our students, among whom striving for and achieving academic excellence is the norm, is part of what makes this faculty an exciting learning environment.

Whether it’s life in the colleges, in the faculty’s ‘Hearth’, its studios, labs or the myriad of facilities in and around the University and the city of Sydney, there can be few better places in which to have a full and enriching university experience.

The faculty seeks to inspire you with a lifelong passion for your chosen field that will sustain you throughout your studies and career. Enjoy your time here and above all use it well to make the most of the wonderful opportunities that studying at the Faculty of Architecture, Design and Planning provides.

Professor John Redmond
Dean
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. A Chair of Architectural Science was created in 1954, 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 overseeing the disciplines created from the old departments. In 2004, the school itself was set aside for a flat structure of one faculty, with four loose disciplines defining areas of research and teaching activity. The faculty changed its name to the Faculty of Architecture, Design and Planning in 2006 to reflect the evolving diversity of its academic activities.

Since 1984, the faculty has been housed under one roof in the purpose-designed Wilkinson Building which includes the Tin Sheds Gallery and the largest and most advanced centre for design computing in Australia. It is located adjacent to the brand new SciTech Library which contains an outstanding architecture and planning collection. The faculty also has three research centres: the AHURI Housing and Urban Research Centre, the Ian Buchan Fell Housing Research Centre and the Planning Research Centre.
Faculty policies, procedures and facilities

Policies

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 percent, 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. The Bachelor of Design in Architecture requires attendance at all sessions from Week 1. Students who are unable to attend should advise their lecturer the week before in writing or by email.

Discrimination and harassment
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.

Students should familiarise themselves with University policies on acceptable behaviour on campus.

The University has appointed advisers to hear complaints from staff and students who suspect or believe that they are being discriminated against or harassed. The advisers are available to discuss problems in confidence and to provide advice and assistance if the complainant wishes.

Details about policy and assistance are available from the Staff and Student Equal Opportunity unit website at sydney.edu.au/eeo/, or by phoning +61 2 9351 2212.

Disabilities liaison
Students should be aware of the disability and counselling services provided by the Student Services Unit, located in the Jane Foss Russell Building.

Insurance for work experience
Students of the University are insured while off campus on University related activities, including work experience that is required as part of a unit of study. Policy details are available on the Risk Management website, including statements of coverage that can be supplied to employers. See sydney.edu.au/audit_risk/insurance.

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 that 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 sydney.edu.au/architecture/CS/plagiarism.shtml.

Students who are found to have plagiarised face a range of penalties from warning to failure of the unit of study or disciplinary action under the University by-laws. The Faculty of Architecture, Design and Planning takes plagiarism very seriously.

Resubmission or supplementary examination
You do not have an automatic right to resubmit work for assessment. The faculty has agreed that students may be invited to resubmit work for examination if their result is in the range 45–49 percent and it is considered that with minor changes it could reach a passing grade. Resubmitted work will receive a maximum mark of 50 percent.

Satisfactory progress and students at risk
The University expects students to make satisfactory progress toward the completion of their award course, and provide support for those who are at risk of failure. The Staying on Track program identifies students who do not achieve a minimum rate of academic progression and offers assistance and a wide range of support services to assist them with their ongoing studies.

The Staying on Track program is outlined in the Policy and Procedure for Identifying and Supporting Students at Risk.

This Policy and Procedure states the University of Sydney’s commitment to the early identification and support of students at academic risk by:

• regularly and effectively advising students of academic progress requirements
• identifying students not meeting the faculty’s academic progression requirements
• alerting students not meeting the faculty’s academic progression requirements for the second time
• providing assistance and support by placing students on the Staying on Track program, and
• regularly checking the progress of students after they have been placed on the Staying on Track program.

More information and advice on academic progression and the Staying on Track program can be found on the website: sydney.edu.au/student_affairs/riskstudents.shtml

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 five (5) working days of the due date of the assessment or examination for which consideration is being sought. Where circumstances preclude this, a student may still apply, but must provide a reasonable case for the delay in application.

The Faculty of Architecture, Design and Planning Guidelines for Application for Special Consideration 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 sydney.edu.au/policy.

Special consideration policy and forms are available from the Student Administration Centre or the Current Students pages of the Faculty of Architecture, Design and Planning website sydney.edu.au/architecture/CS/forms.shtml.

Procedures

Assignment drop boxes
Always follow the instructions of your lecturer or tutor about submission of work. Commonly, you will be asked to submit assignments via the drop boxes located on Level 4, near the elevators.

Building access – swipe cards
After-hours access to the Wilkinson Building, and access to many internal rooms such as computer labs and studios, is by swipe card. Once enabled, your student card becomes a swipe card.

All students will be offered swipe access automatically and will be notified by email to their University email address about procedures for activating it. If for some reason you are not notified, please come to the Student Administration Centre during counter hours. Alternatively, you may email arch.sac@sydney.edu.au.

Lost cards should be reported immediately to Security Services on +61 2 9351 3487.

Computer lab logins
To access the computers in the Wilkinson Building you will need to have your UnIKey account. Computers in the building are for the use of Architecture, Design and Planning students only or students from other faculties taking units in this faculty.

If you have any problems you should contact ICT Helpdesk on 9351 6000 or email ict.support@sydney.edu.au.

Enrolment matters
The Student Administration Centre (SAC) will assist you with all enrolment matters that cannot be done via MyUni. Use MyUni to change your address, change your units of study, check and change your timetable and check your results.

If units of study say that department permission is required for enrolment you will not be able to use MyUni. You should follow any specific advice attached to the unit description. Usually this involves collecting a Special Permission Form from the SAC, getting it signed by the academic in charge of the unit, and bringing this to the SAC where the staff will effect an enrolment. If you are not on campus, the SAC will accept emails from the appropriate authorising person showing that permission has been granted. Email: arch.sac@sydney.edu.au.

Enrolment: changing course – transferring or upgrading
If you have started one degree and want to transfer to another, want to enrol in the Master of Architecture, or want to upgrade from (for example) a graduate certificate or diploma to a master’s, please contact the Student Administration Centre. You will be required to complete an application form. It is advisable to do this some months ahead of when you plan to enrol.

Enrolment: suspension (deferring) candidature
Students may suspend (commonly called ‘defer’) their candidature by applying in writing to the faculty’s Student Administration Centre as soon as the decision has been made, giving brief details of the reasons 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 or suspension beyond four semesters will result in you having to re-apply for entry to the program.

Note that to defer technically means to postpone your study before you’ve even started. Students applying through UAC who have been made an offer and wish to defer should follow the instructions in the information the UAC provides.

Student membership of faculty and other University organisations
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 2 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.

Sydney University Design Association (SUDA) The Sydney University Design Association 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. Messages for SUDA may be left in the faculty’s Academic Support Centre.

Timetables
Personal timetables for both undergraduate and postgraduate coursework students are available via MyUni from Orientation week, the week before classes start. Semester 2 timetables are usually available before or during the midyear break.

Units taught in intensive mode are not shown on the MyUni timetables. If you are enrolled in intensive units, consult the Student Administration Centre notice boards or faculty website.

The faculty publishes a general and intensive timetable on notice boards at the Student Administration Centre and on its website.
Undergraduate: sydney.edu.au/architecture/CS/undergrad/timetables.shtml

It should be noted that the timetable changes frequently before semester starts. Keep an eye on your email at the start of semester and consult the faculty website regularly for any updates.

Prizes and scholarships
For a list of scholarships and prizes available to both undergraduate and postgraduate students in the Faculty of Architecture, Design and Planning please refer to the Faculty website:
sydney.edu.au/architecture/programs_of_study/scholarships.shtml

Facilities and offices
Building plan and orientation
A building plan of each floor is located in the handbook. Use it to find the commonly used venues described below. Room numbers always start with the floor number, so 144 is on Level 1, 541 is on Level 5 etc.

The Maze Crescent entrance brings you into Level 1 at the rear of the building. The City Road entrance brings you into Level 2 at the front of the building.

Academic Support Centre
Located on Level 3 of the Wilkinson Building near the lifts. The Academic Support Centre houses administrative support for the teaching and research activities of the faculty.
T: +61 2 9351 2771
F: +61 2 9351 3031

Acoustics laboratory
Located on Level 4 of the Wilkinson Building, 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.

Architectural and Technical Services Centre
Located on Level 1 of the Wilkinson Building. The faculty has well-established laboratories, workshops and items of equipment for teaching, student project work and graduate and staff research. These include the materials testing lab, wood, plastic and metal working machinery and tools for object design, model making and prototype construction. There is a wind tunnel for ventilation modelling and industry standard facilities such as heliodon, mirror chamber skies, photometry, thermal environment, natural lighting, artificial skies and psychophysics laboratories. Undergraduates and graduates are encouraged to use these facilities after an initial training session or with the assistance of the ATSC staff.

Architecture, Design and Planning lecture theatres
Located on Level 2 of the Wilkinson Building close to the City Road entrance. Architecture Lecture Theatre 1 (or ALT 1) is on your left as you walk in from City Road. Architecture Lecture Theatre 2 (or ALT 2) is straight ahead behind the lift well. ALT 3 is located to your right on the opposite side of the Hearth.

Art workshops
Located on Level 1 the faculty houses several purpose-built spaces for art workshop teaching: ceramics, drawing and painting, photography, screen printing and sculpture studios support a range of creative and fine arts teaching. These provide excellent complementary work for students of design in any field. The administration of the art workshops is run out of the office of the Tin Sheds Gallery on Level 2. Details of art workshop units can be found in the tables of units of study in this handbook. Permission to enrol in units, where required, can be sought from the Tin Sheds Gallery.
Phone: +61 2 9351 3115
Fax: +61 2 9351 4184
Email: tin.sheds@sydney.edu.au

Audio recording and research studio
Located on Level 1 of the Wilkinson Building, room 144, 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.

Audio Visual Centre
Located on Level 4 of the Wilkinson Building behind the Denis Winston Library. Best accessed from the fire stairs on Level 3 or 5, the Audio Visual Centre is an important resource for students and staff of the faculty. It houses an extensive film, video, slide and tape collection including an extensive digital media collection. It contains copies of dissertations and Advanced Study Reports produced by students and as such contains much research relevant to the faculty that will not be found in the University library. It also has a wide range of equipment for use in the centre, including scanning and viewing equipment, as well as digital cameras, which may be borrowed.

T: +61 2 9351 5913

Computer labs
The computer labs are available 24 hours a day, seven days a week for students of the faculty, but you will need your swipe card for after-hours access.

There are three computer labs on Level 2 of the building, for general access. The General Access lab contains 40 machines, the Digital Media lab contains 20 machines and the Mac lab, 20 Macintosh computers. On Level 3 there is a lab of 40 computers reserved for the use of students of the Bachelor of Design Computing. On Level 5 there is a lab of 40 computers for the use of students on postgraduate programs. There are also many kiosk computers throughout the building and in studios to allow students to check email or conduct administrative tasks.

The computer labs are also teaching spaces – please vacate the computer labs if they are required for teaching.

Student Administration Centre
The SAC is located on Level 2 of the Wilkinson Building in the Hearth. The SAC deals with all matters related to enrolment and student administration. This includes enrolment, variation of enrolment, suspension of candidature, appeals against academic decisions, swipe access, timetables, credit, change of candidature (upgrading), graduation assessment, scholarships and prizes. It is a useful first point of contact if you are not sure where else to go.

The SAC counter hours can be found on the Faculty website at:
sydney.edu.au/architecture/CS/student_admin.shtml

T: +61 2 9351 3248
F: +61 2 9036 9532
E: arch.sac@sydney.edu.au
Dean’s office
The office of the Dean of the faculty is located on Level 4 of the Wilkinson Building. Most student matters should be directed in the first instance to the Student Administration Centre on Level 2.
T: +61 2 9351 5924
F: +61 2 9351 5665

Communications and Engagement Office
Located on Level 4 of the Wilkinson Building. This office handles enquiries from future or prospective students, as well as providing support for current student, alumni and broader community events and activities, and promotional and publicity opportunities for the Faculty.
T: +61 2 9351 2686
E: architecture@sydney.edu.au

Tin Sheds Gallery
See also Art workshops. Located on level 2 of the building at the City Road entrance. The Tin Sheds Gallery exhibits artworks by professional artists and is an established part of the Sydney art exhibition scene. Gallery hours are Tuesday to Saturday 11am to 5pm.
T: +61 2 9351 3115
F: +61 2 9351 4184
E: tin.sheds@sydney.edu.au
General Faculty Resolutions

The following resolutions constitute the mainframe by which candidature in the faculty is governed. The rules should be read in conjunction with the University By-laws, Rules and Policies of the University of Sydney as well as resolutions governing individual awards, outlined in subsequent chapters under undergraduate degree regulations and postgraduate coursework regulations.

The resolutions are arranged in the following order:
- Resolutions of the Senate
- Resolutions of the Faculty of Architecture, Design and Planning for coursework awards

Resolutions of the Senate

1 Degrees, diplomas and certificates of the Faculty of Architecture, Design and Planning

(1) With the exception of the Doctor of Science in Architecture and the Doctor of Philosophy, the Senate, by authority of the University of Sydney Act 1989 (as amended), provides and confers the following degrees, diplomas and certificates, according to the rules specified by the Faculty of Architecture, Design and Planning. The Doctor of Science in Architecture and the Doctor of Philosophy are provided and conferred according to the rules specified by the Senate and the Academic Board.

(2) This list is amended with effect from 1 January, 2011. Degrees, diplomas and certificates no longer open for admission will be conferred by the Senate according to the rules previously specified by the Faculty.

2 Degrees

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title &amp; stream</th>
<th>Abbreviation</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA02</td>
<td>Doctor of Science in Architecture</td>
<td>DScArch</td>
<td>Published Work</td>
</tr>
<tr>
<td>CB00</td>
<td>Doctor of Philosophy</td>
<td>PhD</td>
<td>Research</td>
</tr>
<tr>
<td>CC082</td>
<td>Master of Philosophy (Architecture)</td>
<td>MPhil(Arch)</td>
<td>Research</td>
</tr>
<tr>
<td>CC165</td>
<td>Master of Architecture</td>
<td>MArch</td>
<td>96</td>
</tr>
<tr>
<td>CC051</td>
<td>Audio and Acoustics</td>
<td>MDesSc(Audio&amp;Acoustics)</td>
<td>72</td>
</tr>
<tr>
<td>CC151</td>
<td>Audio and Acoustics and stream</td>
<td>MDesSc(Audio&amp;Acoustics)</td>
<td>96</td>
</tr>
<tr>
<td>CC042</td>
<td>Building (admission suspended)</td>
<td>MDesSc(Build)</td>
<td>72</td>
</tr>
<tr>
<td>CC142</td>
<td>Building and stream (admission suspended)</td>
<td>MDesSc(Build)</td>
<td>96</td>
</tr>
<tr>
<td>CC043</td>
<td>Building Services</td>
<td>MDesSc(Build Serv)</td>
<td>72</td>
</tr>
<tr>
<td>CC143</td>
<td>Building Services and stream</td>
<td>MDesSc(BuildServ)</td>
<td>96</td>
</tr>
<tr>
<td>CC048</td>
<td>Illumination Design</td>
<td>MDesSc(IllumDes)</td>
<td>72</td>
</tr>
<tr>
<td>CC148</td>
<td>Illumination Design and stream</td>
<td>MDesSc(IllumDes)</td>
<td>96</td>
</tr>
<tr>
<td>CC049</td>
<td>Sustainable Design</td>
<td>MDesSc(Sustainable Des)</td>
<td>72</td>
</tr>
<tr>
<td>CC149</td>
<td>Sustainable Design and stream</td>
<td>MDesSc(Sustainable Des)</td>
<td>96</td>
</tr>
<tr>
<td>CC056</td>
<td>Master of Facilities Management</td>
<td>MFM</td>
<td>72</td>
</tr>
<tr>
<td>CC033</td>
<td>Master of Heritage Conservation</td>
<td>MHeritCons</td>
<td>72</td>
</tr>
<tr>
<td>CC055</td>
<td>Master of Interaction Design and Electronic Arts</td>
<td>MIDEA</td>
<td>72</td>
</tr>
<tr>
<td>CC034</td>
<td>Master of Urban and Regional Planning</td>
<td>MURP</td>
<td>72</td>
</tr>
<tr>
<td>CC034</td>
<td>Heritage Conservation</td>
<td>MURP(HeritCons)</td>
<td>72</td>
</tr>
<tr>
<td>CC035</td>
<td>Master of Urban Design</td>
<td>MUrDes</td>
<td>72</td>
</tr>
<tr>
<td>CC136</td>
<td>Architectural and Urban Design</td>
<td>MUrDes (Arch&amp;UrbDes)</td>
<td>96</td>
</tr>
<tr>
<td>CC135</td>
<td>Urban Design and Planning</td>
<td>MUrDes(UrbDes&amp;Plan)</td>
<td>96</td>
</tr>
<tr>
<td>CH020</td>
<td>Bachelor of Design in Architecture*</td>
<td>BDesArch</td>
<td>144</td>
</tr>
<tr>
<td>CH020</td>
<td>Allied Arts in Architecture</td>
<td>BDesArch(AlliedArtsArch)</td>
<td>144</td>
</tr>
<tr>
<td>CH020</td>
<td>Digital Architecture</td>
<td>BDesArch(DigitalArch)</td>
<td>144</td>
</tr>
<tr>
<td>CH020</td>
<td>Urban Design and Planning</td>
<td>BDesArch(UrbDesPlan)</td>
<td>144</td>
</tr>
<tr>
<td>CH009</td>
<td>Bachelor of Design Computing*</td>
<td>BDesComp</td>
<td>144</td>
</tr>
</tbody>
</table>

*may be awarded with honours following a further year of study.

3 Combined degrees

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
<th>Abbreviation</th>
<th>Credit points</th>
</tr>
</thead>
</table>

Faculty policies, procedures and facilities
Faculty policies, procedures and facilities

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
<th>Abbreviation</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH046</td>
<td>Bachelor of Engineering*/ Bachelor of Design in Architecture*</td>
<td>BE(Civil)/BDesArch</td>
<td>240</td>
</tr>
</tbody>
</table>

*may be awarded with honours following a further year of study.
*may be awarded with honours in an integrated program.

4 Graduate diplomas

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title &amp; stream</th>
<th>Abbreviation</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF051</td>
<td>Graduate Diploma in Design Science Audio and Acoustics</td>
<td>GradDipDesSc(Audio&amp;Acoustics)</td>
<td>48</td>
</tr>
<tr>
<td>CF042</td>
<td>Building</td>
<td>GradDipDesSc(Build)</td>
<td>48</td>
</tr>
<tr>
<td>CF043</td>
<td>Building Services (admission suspended)</td>
<td>GradDipDesSc(Build Serv)</td>
<td>48</td>
</tr>
<tr>
<td>CF048</td>
<td>Illumination Design</td>
<td>GradDipDesSc(IllumDes)</td>
<td>48</td>
</tr>
<tr>
<td>CF049</td>
<td>Sustainable Design</td>
<td>GradDipDesSc(Sustainable Des)</td>
<td>48</td>
</tr>
</tbody>
</table>

5 Graduate certificates

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title &amp; stream</th>
<th>Abbreviation</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG051</td>
<td>Graduate Certificate in Design Science Audio and Acoustics</td>
<td>GradCertDesSc(Audio &amp; Acoustics)</td>
<td>24</td>
</tr>
<tr>
<td>CG042</td>
<td>Building</td>
<td>GradCertDesSc(Build)</td>
<td>24</td>
</tr>
<tr>
<td>CG043</td>
<td>Building Services (admission suspended)</td>
<td>GradCertDesSc(Build Serv)</td>
<td>24</td>
</tr>
<tr>
<td>CG048</td>
<td>Illumination Design</td>
<td>GradCertDesSc(IllumDes)</td>
<td>24</td>
</tr>
<tr>
<td>CG049</td>
<td>Sustainable Design</td>
<td>GradCertDesSc(Sustainable Des)</td>
<td>24</td>
</tr>
</tbody>
</table>

Resolutions of the Faculty of Architecture, Design and Planning for coursework awards

These resolutions apply to all undergraduate and postgraduate coursework award courses in the Faculty, unless specifically indicated otherwise. Students enrolled in postgraduate research awards should consult the resolutions for their course. These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the resolutions for the course of enrolment, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Part 1: Course enrolment

1 Enrolment restrictions

The Coursework Rule limits the maximum number of credit points students may take in any given semester. The Faculty does not encourage full time students to exceed the recommended enrolment patterns for its courses.

2 Time limits

The Coursework Rule limits the time students may take to complete their course. Part time students should ensure their enrolment pattern allows completion within the maximum time.

3 Suspension, discontinuation and lapse of candidature

The Coursework Rule specifies the conditions for suspending or discontinuing candidature, and return to candidature after these events. The Rule also defines the circumstances when candidature is deemed to have lapsed. Students should pay careful attention to the significant dates in these processes and their effect on results and financial liability.

4 Credit for previous study

(1) Unless these resolutions or the relevant course resolutions specify otherwise, credit for previous study will be awarded
in accordance with the provisions of the Coursework Rule. Credit shall not be granted for units of study gained with Concessional Pass toward any course in the Faculty.

(2) In postgraduate courses in the Faculty, except the Master of Architecture,
(a) full credit transfer will be allowed between postgraduate courses or streams in the same embedded sequence;
(b) credit shall not be granted toward any graduate internship unit; and
(c) credit limits are defined by the following table.

<table>
<thead>
<tr>
<th>Award course level</th>
<th>Maximum credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master's degrees</td>
<td>18*</td>
</tr>
<tr>
<td>Graduate diplomas</td>
<td>18*</td>
</tr>
<tr>
<td>Graduate certificates</td>
<td>12**</td>
</tr>
</tbody>
</table>

*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.

9 Late submission policy

(1) It is expected that unless an application for special consideration has been approved, students will submit all assessment for a unit of study on the due date specified. If the assessment is completed or submitted within the period of extension, no academic penalty will be applied to that piece of assessment.

(2) 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 as follows:
(a) For work submitted after the deadline but up to three calendar days late, a penalty of 35 per cent of the total mark awarded for the assignment will apply.
(b) For work submitted after 3 days and less than one week after the deadline, a penalty of 50 per cent of the total mark awarded for the assignment will apply.
(c) For work submitted more than one week late but less than two weeks after the deadline, a penalty of 55 per cent of the total mark awarded for the assignment will apply.
(d) Work submitted more than two weeks after deadline will not be assessed (Fail).

10 Special consideration for illness, injury or misadventure

Special consideration is a process that affords equal opportunity to students who have experienced circumstances that adversely impact their ability to adequately complete an assessment task in a unit of study. The Coursework Rule provides full details of the University policy. The procedures for applying for special consideration are described in each unit of study outline.

11 Concessional pass

In this Faculty the grade PCON (Concessional Pass) is not awarded.

12 Re-assessment

(1) In this Faculty, an opportunity for re-assessment is offered to students whose final mark for their unit of study is within the range 45-49. Re-assessment will be offered on one date only and it is a student's responsibility to be available to attend on that date. The maximum mark and grade awarded for a unit of study in these circumstances will be 50 Pass.

(2) Students who have successfully requested special consideration may be allowed to sit the exam or submit the required work at a negotiated date that should not be longer than the period of incapacity and in any case not longer than 3 months after the original examination or submission date. After this time the student will be considered to have discontinued with permission. Marks will be awarded at full value for re-assessment where special consideration is approved.
Part 4: Progression, Results and Graduation

13 Satisfactory progress

The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as defined by the Progression requirements of the Coursework Rule), students must pass any unit of study identified in the course resolutions as being critical to progression through the course.

14 Award of the bachelor degree with honours

(1) To qualify for admission to the honours degree a student must:
   (a) have completed the requirements for the relevant pass degree or be a graduate of no more than 4 years' standing; and
   (b) have a WAM of at least 70 (in exceptional cases the Dean may admit a student with a WAM of 65 or higher); and
   (c) have an approved thesis topic and supervisor.

(2) To qualify for the award of honours a candidate must successfully complete 48 credit points of honours units of study listed in the table for the degree over two consecutive semesters.

(3) The grade of honours will be determined by the honours mark achieved. The honours mark will be derived from weighting the mark for the honours thesis at 70 per cent and the WAM of the pass degree at 30 per cent. The WAM used is the University WAM.

(4) Honours is awarded in the following classes:

<table>
<thead>
<tr>
<th>Description</th>
<th>Honours Mark Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>Mark&gt;=80</td>
</tr>
<tr>
<td>Honours Class II (Division 1)</td>
<td>75&lt;=Mark&lt;80</td>
</tr>
<tr>
<td>Honours Class II (Division 2)</td>
<td>70&lt;=Mark&lt;75</td>
</tr>
<tr>
<td>Honours not awarded</td>
<td>Mark&lt;70</td>
</tr>
</tbody>
</table>

(5) A candidate for the honours program who does not meet the requirements for award of honours shall be awarded the pass degree. A candidate who terminates the program prior to the end of the second semester of study will be awarded a grade of Discontinued - Not to count as failure (DNF).

(6) Candidates who fail or discontinue the honours program may not re-enrol in it, except with the approval of the Dean.

(7) A candidate may not graduate with the pass degree while enrolled in the final year honours program.

15 University Medal

Honours candidates 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 the Coursework Rule and on nomination by the Dean with the recommendation of the Board of Undergraduate Studies.

16 Weighted Average Mark (WAM)

(1) The University WAM is calculated using the following formula:

\[
WAM = \frac{\sum (Wc \times Mc)}{\sum Wc}
\]

Where \(Wc\) is the unit of study credit points x the unit weighting and \(Mc\) is the mark achieved for the unit. The mark used for units with a grade AF is zero. Pass/ fail units and credited units from other institutions are not counted.

(2) The weight of a unit of study is assigned by the owning faculty. In this Faculty, junior units are weighted zero and senior and graduate units are weighted one.

Part 5: Other

17 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 and who elect to proceed under these resolutions.

(2) Students who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
Bachelor of Design in Architecture

Overview

The Bachelor of Design in Architecture, along 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.

By selecting the appropriate stream, 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).

You may choose to do an additional honours year – see the chapter relating to honours later in this Handbook.

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, Design and Planning 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 Master of Architecture. However, to gain entry to this program you will have to take a specific elective, commencing in third year, that is a prerequisite 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’s 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, heritage conservation, illumination design, audio design, facilities management and 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 contains 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

Rigorous, critical design

The program is underpinned by a strong philosophical approach. This approach is based on architectural theory, research and practice, research-enhanced learning, educational theory, 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 contextual activity

Designing is a contextual activity, that is, it can only occur in the specific space 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.

Critical practice

Critically is a central component in the learning and practising of design. Critical reflection on and reinterpretation of the many areas involved in designing form the basis for learning and practice. These areas include the historic and theoretical contexts of design; the role of representations in the production of physical forms, the knowledge required and used, the processes of designing, and interactions of people involved in that process. Useful critical practice may take both structured and unstructured forms, and range from immediate to reflective review.

Research enhanced design

Many types of knowledge are relevant to solving a design problem. These have traditionally been taught as separate units of study in 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 four key areas of study that aid the studio-based design practice. These areas are: Architectural History and Theory; Architectural Communications; Architectural Technologies; Art Workshop. 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.
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.

Deployment 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 to 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-scale 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
- 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 AWSS2001 Public Art (6 credit points) and AWSS2002 Site Specific Art (6 credit points) in the third year. Many students interested in this stream will also complete AWSS1001 Architectural Sketching and Drawing (6 credit points) 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. Students can build a particular emphasis into the stream. Students can build a particular emphasis into the stream.

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, 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.

This stream is also relevant to those contemplating taking graduate programs 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 to 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.

Digital Architecture

The Bachelor of Design in Architecture (Digital Architecture) stream encourages a more in-depth exploration of the role of digital technologies in architectural representation and production. Students are introduced to some of the key industry programs such as AutoCAD and ArchiCAD for the production of 2D and 3D drawings and models; digital image design and representation; interactive media design and advanced 3D modelling.

The electives associated with the stream aim to provide students with a broad understanding of programs and their applications for design and representation; and students are encouraged to apply their skills.
to the design studio courses. On completion of the Digital Architecture Stream students will have: an understanding of the role of the digital technologies in architectural design; an ability to engage with the digital technology as a tool for architectural communication and technical skills in a variety of digital media.

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 later in this handbook 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 102 credit points from the core units of study as described in Table A
- must complete successfully at least 12 credit points from the faculty electives as described in Table A
- may complete the requirements for an additional stream as described in Table A
- may complete no more than 24 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 the faculty’s tables of graduate units, provided they have completed at least 96 credit points with a weighted average mark (WAM) of at least 70.

Progression in the Bachelor of Design in Architecture

It is a requirement of the Bachelor of Design in Architecture that you pass ALL core units for the degree. To manage this, the faculty has created a series of thresholds through which you must pass in order to progress to the next stage.

Transition

The faculty recognises that in the first year many students experience difficulty making the transition to tertiary study, which requires much more independence than school study. At the same time, there are knowledge and skills that are essential to the degree that must be mastered before you can progress.

Studio

Studio is central to the Bachelor of Design in Architecture and the teaching is structured in such a way that the knowledge and skills learned in one semester build on those learned in the previous semester. You are required to pass Studio 101 before you will be allowed to proceed to Studio 102 and Studio 201 before you proceed to Studio 202 and so on. A fail in any Studio unit will prevent progression to the next unit, causing a 12-month delay in your studies.

Architectural History and Theory; Communications; Technologies and Art Workshop

While Architectural History and Theory; Communications; Technologies and Art Workshop units are core to the degree, they are taught in relatively self-contained ways that complement the work in Studio. If you fail any of these units in first year you will be allowed to progress to second year, BUT you you will still be required to re-enrol in the failed units and pass them in their own right. For example: a pass in Architectural History and Theory 2 will NOT result in a retrospective pass in a failed Architectural History and Theory 1 unit.

Progression to Year 3

You will not be permitted to enrol in Studio 301 unless you have passed ALL first and second year core units. You will not be allowed to proceed to Studio 302 until you have passed Studio 301.

Master of Architecture prerequisite unit of study

Candidates who wish to proceed to the Master of Architecture must include the prerequisite unit of study described in Table A in the chapter Bachelor of Design in Architecture. Other conditions apply to entry to the Master of Architecture, including completing the Bachelor of Design in Architecture with a WAM of at least 65, and undertaking work experience. 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. For more information about honours see the chapter of this Handbook about undergraduate honours.

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 Master of Architecture should complete the prerequisite unit of study in their final year. Students are advised to carefully consider which stream or streams interest them and plan their elective units accordingly.
Bachelor of Design in Architecture enrolment planner

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Streams
If you wish to take a particular stream, choose your electives carefully, using the tables on the following pages. But as a guide, some recommendations are outlined below.

Bachelor of Design in Architecture (Allied Arts In Architecture)

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## Bachelor of Design in Architecture (Digital Architecture)

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**Year 2**

| Semester 1 | 6 |
| BDES2010 | Architecture Studio 201 6 |
| BDES2013 | Architectural Technologies 2 6 |
| BDES2012 | Architectural Communications 2 6 |
| DECO2101 | Digital Image Design & Rep 6 |

| Semester 2 | 6 |
| BDES2020 | Architecture Studio 202 6 |
| BDES2024 | Art Workshop 2 6 |
| DECO2102 | Interactive Multimedia Design 6 |

**Year 3**

| Semester 1 | 6 |
| BDES3010 | Architecture Studio 301 6 |
| BDES3011 | Architectural History/Theory 3 6 |
| BDES3012 | Architectural Communications 3 6 |
| Elective | 6 |

| Semester 2 | 6 |
| BDES3020 | Architecture Studio 302 6 |
| BDES3023 | Architectural Technologies 3 6 |
| BDES3025 | Architectural Professional Practice 6 |
| Elective | 6 |

## Bachelor of Design in Architecture (Urban Design and Planning)

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<td>DESP1001</td>
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**Year 2**

| Semester 1 | 6 |
| BDES2010 | Architecture Studio 201 6 |
| BDES2013 | Architectural Technologies 2 6 |
| BDES2012 | Architectural Communications 2 6 |
| DESP2001 | Planning for the Public Domain 6 |

| Semester 2 | 6 |
| BDES2020 | Architecture Studio 202 6 |
| BDES2021 | Architectural History/Theory 2 6 |
| BDES2024 | Art Workshop 2 6 |
| DESP2002 | Planning for the Built Environment 6 |

**Year 3**

| Semester 1 | 6 |
| BDES3010 | Architecture Studio 301 6 |
| BDES3011 | Architectural History/Theory 2 6 |
| BDES3012 | Architectural Communications 3 6 |
| Elective | 6 |

| Semester 2 | 6 |
| BDES3020 | Architecture Studio 302 6 |
| BDES3023 | Architectural Technologies 3 6 |
| BDES3025 | Architectural Professional Practice 6 |
| Elective | 6 |
# Bachelor of Design in Architecture

## Table A: Bachelor of Design in Architecture

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<td>N DESA3001</td>
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<td>Semester 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDES3020 Architecture Studio 302</td>
<td>6</td>
<td>P BDES3010 or DESA3001</td>
<td>C BDES3023 or DAAP3002</td>
<td>N DESA3002</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDES3023 Architectural Technologies 3</td>
<td>6</td>
<td>P BDES2013 or DESA2111</td>
<td>C BDES3020</td>
<td>N DAAP3002</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>Master of Architecture - Prerequisite unit of study</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidates wishing to proceed to the Master of Architecture are required to complete the following prerequisite unit. This unit may count towards the Faculty electives.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BDES3025 Architectural Professional Practice</td>
<td>6</td>
<td>C BDES3020</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>Faculty electives</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All candidates are required to complete a minimum of 12 Senior credit points.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Architectural Technologies

**Senior units of study**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAE2008 Innovative Building Structures</td>
<td>6</td>
<td>P DESA2111 or BDES2013</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This unit of study is not available in 2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAAE3001 Sustainable Architectural Practice</td>
<td>6</td>
<td>P DESA2111 or BDES1023 or DESA1102</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Architectural Design

Candidates enrolled in Architecture Studio 301 or Studio 302 with a distinction average may request permission to enrol in MARC6202 Architecture Workshop A.

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Prerequisites</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARC6202 Architecture Workshop A</td>
<td>6</td>
<td>Note: Department permission required for enrolment. Students may incur materials costs in this unit.</td>
<td>S1 Intensive, S2 Intensive</td>
</tr>
</tbody>
</table>

### Architectural History and Theory

**Senior units of study**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAE2001 20th Century Australian Architecture</td>
<td>6</td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

### Environment, Behaviour & Society

**Senior units of study**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAE2002 Architecture, Place and Society</td>
<td>6</td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

### Streams

It is not a 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.

#### Mandatory units

**Senior units of study**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2001 Public Art</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2002 Site Specific Art</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Additional Allied Arts in Architecture units

#### Junior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS1001 Architectural Sketching and Drawing</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>Students may incur costs for materials in some Art Workshops units.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2010 Ceramics (Handbuilding)</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2011 Ceramics (Wheel Throwing)</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2013 Digital Video</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2014 Printmaking</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWSS2015 General Drawing</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Design in Architecture

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS2016 Graphic Design (Introduction)</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2018 Life Drawing</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2019 Mixed Media</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2020 Object Design</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2022 Painting</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2023 Animation</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2024 Photography 1</td>
<td>6</td>
<td>P AWS2023 or equivalent. Equivalence can be established by either presenting a portfolio of photographic work or by presenting a transcript indicating a minimum of a full semester in b&amp;w photography. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2026 Screen Printing on Paper</td>
<td>6</td>
<td>Note: Department permission required for enrolment. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2027 Sculpture</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2028 Web Art and Design</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1 Semester 2</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO101 Digital Image Design &amp; Representation</td>
<td>6</td>
<td>N DECO1001, DECO1100</td>
<td>Places in this unit are limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECO202 Interactive Multimedia Design</td>
<td>6</td>
<td>N DECO1002, DECO2002, DECO1200</td>
<td>Places in this unit are limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECO203 3D Modelling</td>
<td>6</td>
<td>N DECO1005</td>
<td>Places in this unit are limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECO204 Principles of AutoCAD-Revit</td>
<td>6</td>
<td>N DESA1202, DESC9161, DESC9416</td>
<td>Permission required, unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students must apply directly to the Faculty of Architecture</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECO205 Principles of ArchiCAD</td>
<td>6</td>
<td>N DESA1201, DESC9100, DESC9162</td>
<td>Permission required, unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students must apply directly to the Faculty of Architecture</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Urban Design and Planning Stream**

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

**Junior units of study**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESP1001 Introductory Urban Design and Planning</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>
Bachelor of Design in Architecture

### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESP2001 Planning for the Public Domain</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DESP2002 Planning for the Built Environment</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

### 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, or Table M Master of Architecture, in this handbook.

### Junior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO1012 Design Programming</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DECO2012 Sound Design and Sonification</td>
<td>6</td>
<td>N DECO1013</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DESA1004 Designing with Surfaces and Light</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAE2005 Designing with Colour 1</td>
<td>6</td>
<td>A DESA1004</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DAAE2006 Designing with Colour 2</td>
<td>6</td>
<td>P DAAE2005</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BDES6026 Architecture Review</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DECO2010 Collaborative Virtual Environments</td>
<td>6</td>
<td>P DECO1100 or DECO (2101 and 2102) or INFO (1000 or 1003)</td>
<td>N DECO2005</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DECO2806 Real Time Multimedia</td>
<td>6</td>
<td>P DECO(1008 or 2103) and (SOFT1001 or DECO(1012 or 2111))</td>
<td>DECO1100 or DECO (2101 and 2102) or INFO (1000 or 1003)</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DECO3003 Design Computing Research Opportunity</td>
<td>6</td>
<td>A Computer programming.</td>
<td>P 96 credit points and minimum WAM of 65.</td>
<td>DECO(1008 or 2103) and (SOFT1001 or DECO(1012 or 2111))</td>
<td>DESC9019, DESC9141</td>
<td>Semester 1</td>
</tr>
<tr>
<td>DECO3005 Advanced Interaction Design</td>
<td>6</td>
<td>P DECO(1200 or 2200 or 2102)</td>
<td>N DESC9142</td>
<td>DESC9019, DESC9141</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DECO3006 Principles of Animation</td>
<td>6</td>
<td>P DECO1003 or DECO1008 or DECO2103</td>
<td>DESC9019, DESC9141</td>
<td>DESC9019, DESC9141</td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

### General electives

### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO3551 Design Computing General Elective A</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>DECO(1200 or 2200 or 2102)</td>
<td>DESC9142</td>
<td></td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DECO3552 Design Computing General Elective B</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>DECO(1200 or 2200 or 2102)</td>
<td>DESC9142</td>
<td></td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>DECO3553 Design Computing General Elective C</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>DECO(1200 or 2200 or 2102)</td>
<td>DESC9142</td>
<td></td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DECO3554 Design Computing General Elective D</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>DECO(1200 or 2200 or 2102)</td>
<td>DESC9142</td>
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<tr>
<td>DESA3551 Design Architecture General Elective A</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>DESA1004</td>
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19
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<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tr>
<td>DESA3552 Design Architecture General Elective B</td>
<td>6</td>
<td>P 48 credit points.</td>
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<td>S2 Intensive</td>
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<td>Semester 1</td>
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<td>S2 Intensive</td>
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<td>Note: Department permission required for enrolment</td>
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<td>S2 Intensive</td>
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**Independent Study electives**

**Senior units of study**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>DECO3441 Design Computing Independent Study A</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
<td></td>
<td>Semester 1</td>
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<td>Semester 2</td>
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<tr>
<td>DECO3442 Design Computing Independent Study B</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>Semester 1</td>
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<td>Semester 2</td>
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<tr>
<td>DECO3443 Design Computing Independent Study C</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>Semester 1</td>
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<td>DECO3444 Design Computing Independent Study D</td>
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<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>Semester 1</td>
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<td>Semester 2</td>
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<td>DESA3441 Design Architecture Independent Study A</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>DESA3442 Design Architecture Independent Study B</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>Semester 1</td>
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<tr>
<td>DESA3443 Design Architecture Independent Study C</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
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<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>Semester 2</td>
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<tr>
<td>DESA3444 Design Architecture Independent Study D</td>
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<td>P 48 credit points and WAM of at least 70.</td>
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<td>Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.</td>
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<td>Semester 1</td>
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<td>Semester 2</td>
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</table>

**Honours units of study**

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

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH4003 Dissertation and Research Methods A</td>
<td>12</td>
<td>P Completion of the Pass degree with a WAM of at least 70.</td>
<td>Note: Bachelor of Design in Architecture honours students only.</td>
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<td>Semester 1</td>
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</tr>
<tr>
<td>ARCH4004 Dissertation and Research Methods B</td>
<td>12</td>
<td>C ARCH4003</td>
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<td>Semester 2</td>
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<tr>
<td>ARCH4005 Dissertation and Research Methods C</td>
<td>12</td>
<td>C ARCH4004</td>
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<tr>
<td>ARCH4006 Dissertation and Research Methods D</td>
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<td>C ARCH4005</td>
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<td>Semester 2</td>
</tr>
</tbody>
</table>
Overview

The Bachelor of Design Computing program teaches design with a focus on the pragmatic, creative and aesthetic possibilities of computer-expressed works.

Although once regarded as being only about website design, special effects, computer games and animation, digital design has infused architecture, industrial design, fashion and the arts. The experimental digital practices of a vanguard of designers have promulgated a digital design culture whose aesthetic is defining the means of conception, implementation and industrial production of designed works and the aesthetic that is producible by new computing technologies. The Bachelor of Design Computing program responds to this convergence of design and computing. The academic program prepares graduates for careers in a style of design in which computation is integral to the performance of design.

More than simply learning de facto industry software tools for the production of designed works, the Bachelor of Design Computing program establishes new ways of doing design in which the modus operandi of computation is implicated in changing the course of the realisation of designed works. You will design works such as interactive digital media, virtual environments, digital audio, information visualisation, mobile phone-based applications and digital art in the units of study. You will master advanced software from Adobe, Autodesk and Virtools for digital media production, modelling, and animation. You will learn programming in Java and other web-based languages. You will work with hardware such as sensors, information devices and high-end mobile phones. If imagining the world as it could be is your goal, the Bachelor of Design Computing program can give you the opportunity to develop your own design language.

Graduates from the Bachelor of Design Computing program have gone on to work in various design firms and design industries including computer gaming, web design, media production, public relations and marketing, digital design consulting, start-up digital design firms and digital design think tanks.

Philosophy of the Bachelor of Design Computing

There are four knowledge areas of design computing that provide the basis for developing the students’ capacity to both be skilled crafters of digitally designed works and emerge as part of a new generation of digital design specialists:

Design
Focusing on masterful technical achievement with an attention to the interfacing of design, technology and originality of content, the design studios and lecture-based units of study serve as the principal forum for the conception and implementation of your designed works.

- Digital Design Studio
- Interaction Design Studio
- Information Visualisation Design Studio
- Human-Computer Experience Design Studio
- Sound Design and Sonification
- Understanding Design and Cognition

Programming
Programming is the glue between the conception and the implementation of your creative projects. The follow unit of study teaches the fundamentals of computer programming within a visual design context; however, programming is situated in most units of study. Programming languages taught include PHP, Java, Javascript and Processing. Students can increase their depth of knowledge of programming, which is still the most sought-after skill in industry, through elective units of study in the School of Information Technologies.

- Design Programming

Modelling
Modelling takes on two key directions in the Design Computing curriculum: modelling for the representation of form and simulation of the designed work such as with computer-aided design and animation, and modelling of the design process to enable the generative processes underpinning digital design. The latter is the trend in digital design, in which ever more complex forms for designed works are impossible to conceive without the use of computing. Software used in these units of study include Maya, Virtools, and MySQL.

- 3D Modelling
- Principles of 3D Animation
- Database Systems 1

Interaction
The theme of interaction deals with designing for the contact surface between humans and computers. These units of study address issues in interaction design such as information architectures, handling the feedback loop between humans and computers, and ease-of-use evaluation.

- Collaborative Virtual Environments
- Real Time 3D Multimedia
- Advanced Interaction Design

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 in total
- must complete successfully 84 credit points from the core units of study described in Table B
- must complete successfully 18 credit points from Technical Electives from the Faculty of Engineering and Information Technologies, from units of study prefixed COMP, ELEC, INFO, ISYS, MTRX and/or SOFT. At least 6 credit points of this must be at 2000 level or higher
- must complete successfully 18 credit points from the faculties of Arts, Science or Economics and Business. At least 6 credit points of this must be at 2000 level or higher
- must complete successfully at most 24 credit points from elective units of study from those listed in Table B, or with the permission of the unit coordinator concerned, units of study from the faculty’s tables of graduate units, provided they have completed at least 96 credit points with a weighted average (WAM) of at least 70.

Honours
In order to qualify for the honours degree, candidates must satisfy the requirements for the pass degree with an eighted average mark (WAM) of at least 70 and in addition successfully complete 48 credit points consisting of a research thesis. In their third year, students would normally enrol in the preparatory unit of study as an elective. Honours may only be undertaken on a full-time basis. For more information about honours see the chapter of this Handbook about undergraduate honours.

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. The enrolment planner shows progression through the core units of study.

Bachelor of Design Computing planner

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
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<tr>
<td>DECO1012  Design Programming</td>
<td>6</td>
</tr>
<tr>
<td>DECO1006  Understanding Design and Cognition</td>
<td>6</td>
</tr>
<tr>
<td>DECO1100  Digital Design Studio</td>
<td>12</td>
</tr>
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<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>DECO1008  3D Modelling</td>
<td>6</td>
</tr>
<tr>
<td>DECO1013  Sound Design and Sonification</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>Total for Year 1</strong></td>
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<td><strong>Year 2</strong></td>
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<td>Semester 1</td>
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<tr>
<td>DECO2010  Collaborative Virtual Environments</td>
<td>6</td>
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<tr>
<td>INFO2120  Database Systems 1</td>
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<td>Electives</td>
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<td>Semester 2</td>
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</tr>
<tr>
<td>DECO2200  Interaction Design Studio</td>
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<td>Electives</td>
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<td><strong>Total for Year 2</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td>DECO3100  Information Visualisation Design Studio</td>
<td>12</td>
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<td>DECO3200  Human-Computer Experience Design Studio</td>
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<td><strong>Total for Year 3</strong></td>
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### Table B: Bachelor of Design Computing

<table>
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<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tr>
<td><strong>Core units of study</strong></td>
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<td>Candidates are required to complete all the core units of study listed in this table.</td>
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<td><strong>Junior units of study</strong></td>
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<td>DECO1012</td>
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<td>N DECO2011, SOFT1001</td>
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<td>Semester 1</td>
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<td>DECO1006</td>
<td>6</td>
<td>N DECO1004</td>
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<tr>
<td>DECO1100</td>
<td>12</td>
<td>N DECO1011</td>
<td>Core unit for Bachelor of Design Computing. BST students by permission. Enrolment is limited by teaching resources.</td>
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<tr>
<td>DECO1008</td>
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<td>N DECO2103</td>
<td>This unit is for BDesComp and BST students only. Others may enrol in DECO2103.</td>
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<td>Semester 2</td>
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<tr>
<td>DECO1013</td>
<td>6</td>
<td>N DECO2012</td>
<td>Enrolment limited by teaching resources. Permission required unless enrolled in the Bachelor of Design Computing or the BST. Other students may apply directly to the Faculty of Architecture, Design and Planning for a place.</td>
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<td>Semester 2</td>
</tr>
<tr>
<td><strong>Senior units of study</strong></td>
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<tr>
<td>DECO2010</td>
<td>6</td>
<td>P DECO1100 or DECO (2101 and 2102) or INFO (1000 or 1003)</td>
<td>N DECO2005</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>INFO2120</td>
<td>6</td>
<td>A Some exposure to programming and some familiarity with data model concepts such as taught in INFO1103 or INFO1003 or INF1000 or INF1093</td>
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<td>Semester 1</td>
</tr>
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<td>DECO2200</td>
<td>12</td>
<td>P DECO1100</td>
<td>N DECO1200</td>
<td>Core unit for the Bachelor of Design Computing. BST students by permission. Enrolment is limited by teaching resources.</td>
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<tr>
<td>DECO3100</td>
<td>12</td>
<td>P DECO(1100 and 1200) or DECO(1100 and 2200) or DECO(2101 and 2102) or DECO(2012 and 2013)</td>
<td>N DECO300</td>
<td>Core unit for Bachelor of Design Computing, BST students by permission. Enrolment is limited by teaching resources.</td>
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<tr>
<td>DECO3200</td>
<td>12</td>
<td>P DECO3100 or (DECO2101 and DECO2102 and (DECO(1012 or 2011 or SOFT1001)))</td>
<td>N DECO3002</td>
<td>Core unit for Bachelor of Design Computing, BST students by permission. Enrolment is limited by teaching resources.</td>
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<tr>
<td><strong>Technical electives</strong></td>
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</tr>
<tr>
<td>Candidates are required to complete a minimum of 18 credit points, with a minimum of 6 credit points at 2000 level or higher, from units offered by the Faculty of Engineering and Information Technologies prefixed ELEC, MTRX, COMP, ISYS and/or INFO.</td>
<td></td>
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</tr>
<tr>
<td><strong>Arts, Economics or Science electives</strong></td>
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</tr>
<tr>
<td>Candidates are required to complete a minimum of 6 points, with a minimum of 6 credit points at 2000 level or higher, from units offered by the Faculties of Arts, Economics and Business or Science.</td>
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<tr>
<td><strong>Electives</strong></td>
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<tr>
<td>Candidates are required to complete a maximum of 24 credit points of electives from the following list. Students who have completed 96 credit points with a WAM of at least 70 may substitute, with the permission of the unit coordinator concerned, units from Table G, The Faculty’s table of graduate units.</td>
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<tr>
<td><strong>Design Computing electives</strong></td>
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<tr>
<td>Senior units of study</td>
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<td>DECO3005</td>
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<td>Semester 1</td>
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<td>DECO3006</td>
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<td>P DECO(1003 or DECO1008 or DECO2103)</td>
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<tr>
<td>DECO3008</td>
<td>6</td>
<td>P 72 credit points and minimum WAM of 70</td>
<td>Note: Department permission required for enrolment</td>
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<td>Semester 1</td>
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<tr>
<td>DECO2205</td>
<td>6</td>
<td>N DESA1201, DESC9100, DESC9162</td>
<td>Permission required, unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students must apply directly to the Faculty of Architecture</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>
Bachelor of Design Computing

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO2606 Real Time Multimedia</td>
<td>6</td>
<td>P DECO(1008 or 2103) and (SOFT1001 or DECO(1012 or 2011))</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture.</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECO3003 Design Computing Research Opportunity</td>
<td>6</td>
<td>A Computer programming.</td>
<td>P 96 credit points and a minimum WAM of 65. Note: Department permission required for enrolment Students from other faculties may apply directly to the Faculty of Architecture, Design and Planning.</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECO2204 Principles of AutoCAD-Revit</td>
<td>6</td>
<td>N DESA1202, DESC9101, DESC9163</td>
<td>Permission required, unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students must apply directly to the Faculty of Architecture</td>
<td>Semester 2</td>
<td></td>
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</tr>
</tbody>
</table>

Allied Arts in Architecture

Junior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS2001 Architectural Sketching and Drawing</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS2002 Public Art</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2003 Site Specific Art</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2010 Ceramics (Handbuilding)</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2011 Ceramics (Wheel Throwing)</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2013 Digital Video</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2014 Printmaking</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2015 General Drawing</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2016 Graphic Design (Introduction)</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2019 Life Drawing</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2019 Mixed Media</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2020 Object Design</td>
<td>6</td>
<td>A Completed an ATSC workshop proficiency class</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2022 Painting</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2023 Photography 1</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS2024 Photography 2</td>
<td>6</td>
<td>P AWS2023 or equivalent. Equivalence can be established by either presenting a portfolio of b&amp;w photographic work or by presenting a transcript indicating a minimum of a full semester unit in b&amp;w photography.</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting.</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Design Computing Honours Research

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

#### Honours units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS32026 Screen Printing on Paper</td>
<td>6</td>
<td>Note: Department permission required for enrolment</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 2</td>
<td>S1 Intensive</td>
<td></td>
</tr>
<tr>
<td>AWS32027 Sculpture</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWS32028 Web Art and Design</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 2</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Design Architecture Electives

#### Junior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESA1004 Designing with Surfaces and Light</td>
<td>6</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td>Semester 2</td>
<td>Summer Early</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAE2005 Designing with Colour 1</td>
<td>6</td>
<td>A DESA1004</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td>Semester 1</td>
<td>Summer Early</td>
<td></td>
</tr>
<tr>
<td>DAAE2006 Designing with Colour 2</td>
<td>6</td>
<td>P DAAE2005</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td>Semester 2</td>
<td>Summer Early</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Department permission required for enrolment

#### General Electives

#### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO3551 Design Computing General Elective A</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>S1 Intensive</td>
<td></td>
</tr>
<tr>
<td>DECO3552 Design Computing General Elective B</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>S2 Intensive</td>
<td></td>
</tr>
<tr>
<td>DECO3553 Design Computing General Elective C</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>S1 Intensive</td>
<td></td>
</tr>
<tr>
<td>DECO3554 Design Computing General Elective D</td>
<td>6</td>
<td>P 48 credit points.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>S2 Intensive</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Department permission required for enrolment

### Independent Study Electives

#### Senior units of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO3441 Design Computing Independent Study A</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>DECO3442 Design Computing Independent Study B</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>DECO3443 Design Computing Independent Study C</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>DECO3444 Design Computing Independent Study D</td>
<td>6</td>
<td>P 48 credit points and WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Department permission required for enrolment

### Honours units of study

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

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECO4001 Design Computing Honours Research A</td>
<td>12</td>
<td>P Completion of the Pass degree. Students in the Bachelor of Design Computing will require a WAM of at least 70.</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
</tr>
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<td>----------</td>
</tr>
<tr>
<td>DECO4002 Design Computing Honours Research B</td>
<td>12</td>
<td>C DECO4001</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>DECO4003 Design Computing Honours Research C</td>
<td>12</td>
<td>C DECO4002</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>DECO4004 Design Computing Honours Research D</td>
<td>12</td>
<td>C DECO4003</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
</tbody>
</table>
Undergraduate honours degrees

About this chapter
This chapter contains general and degree specific information about the degrees:
- Bachelor of Design in Architecture (Honours)
- Bachelor of Design Computing (Honours).

You should read the frequently asked questions, followed by the section relevant to your degree. This chapter is a summary of the resolutions of the faculty for the relevant degree, printed later in the Handbook. Where there are inconsistencies the faculty resolutions take precedence.

Frequently asked questions

What is an honours degree?
The undergraduate degrees of the faculty are awarded at two levels: pass and honours. While most students will complete their degree at pass level, the degree may be awarded with honours by completing a course of advanced study involving the production of a dissertation by research.

What is involved in gaining an honours degree?
In addition to the three years of study for the pass degree, the honours degree requires an extra year of full-time study engaged solely in a research task under the supervision of a member of academic staff.

What is an honours degree for?
For students who have demonstrated a level of academic excellence in their undergraduate degree, honours provides the opportunity to pursue a program of research in an area of study they select. Honours allows the development of research skills and methods under the supervision of an experienced academic researcher.

Why would I complete an honours degree?
An honours degree has recognised prestige that is highly regarded by employers and other universities.

Honours degrees provide a strong grounding for undertaking higher research degrees such as the Doctor of Philosophy (PhD). A PhD is now practically a prerequisite to a career in academia.

An honours degree enables students to be eligible and competitive in applying for scholarships such as an Australian Postgraduate Award or an International Postgraduate Research Scholarship, which pay a tax-free living allowance for the duration of master’s or PhD level higher degree study.

What is meant by first-class honours?
Honours in the Faculty of Architecture, Design and Planning is awarded in two classes, each with sub-categories. These are, in order from highest to lowest:
- First class with the University Medal
- First class
- Second class, Division I
- Second class, Division II.

The class of honours is determined by the student’s weighted average mark (WAM) (see below). Awarding of the University Medal is at the discretion of the Dean. Candidates should ordinarily have a truly outstanding record over the duration of their degree and additionally produce an outstanding dissertation.

What is a WAM and how do I calculate it?
WAM stands for weighted average mark. It is a calculation used to decide eligibility and class of award of honours. WAM is calculated using the following formula:

\[
\text{WAM} = \frac{\sum (Wc \times Mc)}{\sum Wc}
\]

where \(Wc\) is the unit of study credit points multiplied by the unit weighting, and \(Mc\) is the mark achieved for the unit. The mark used for units with a grade AF is zero. Pass/fail units and credited units from other institutions are not counted.

In this faculty, junior units are weighted zero and senior and graduate units are weighted one.

Are there scholarships available to honours students?
Yes. Please consult the Faculty of Architecture, Design and Planning website for a list of scholarships available. Applications are required in the year prior to commencement. Further information can be accessed at: sydney.edu.au/architecture/programs_of_study/scholarships.shtml
Honours in the Bachelor of Design in Architecture

Admission
To qualify to enrol in the honours program a student must have qualified for the award of the pass degree, or a similar acceptable degree from another university, or be a graduate of not more than four years standing, with a weighted average mark of at least 70 for the pass degree.

Before applying the student must develop a thesis topic and have an allocated supervisor from the faculty’s academic staff. Students should discuss their proposed research with relevant staff prior to applying for admission to honours. It is also possible to have an associate supervisor to share supervision where topics extend beyond the immediate expertise of the primary supervisor.

The honours year
The honours course is to be taken fulltime over two consecutive semesters. Enrolment is effected by taking 48 credit points, being ARCH4003 and ARCH4004 in the first semester and ARCH4005 and ARCH4006 in the second semester.

The dissertation 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.

There are no formal classes. Honours students are expected to make arrangements for weekly contact with their supervisor on an individual basis to chart their work, receive advice, review and monitor progress.

The supervisor shall be a member of the full-time or fractional academic or research staff of the faculty.

Submission date and form of dissertation
A student undertaking a dissertation shall:

- lodge with the supervisor two copies of the dissertation by the end of the first week of the formal examination period in the final semester of enrolment. The dissertation should be 15,000 to 25,000 words in length. A lesser word length is expected and acceptable for a dissertation that has a significant non-text-based exploration (for example, dissertations that include a significant design or art component, or empirical or experimental research component). The word length requirement for dissertation that have significant non-text-based explorations should be determined and agreed with the candidate’s supervisor(s) and the Principal Examiner;
- state in the dissertation, 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 dissertation which is claimed to be original; and
- 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 dissertation provided that the student indicates the work so incorporated.

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

- temporary binding must be able to withstand ordinary handling and postage. The preferred form of binding is the “perfect binding” system; and
- the cover of a temporarily bound dissertation must have a label showing the student’s name, name of the degree, title of the dissertation and year of submission.

A student must lodge the final dissertation in a permanent form according to the following conditions:

- permanent binding must meet the requirements given in the University Calendar under the resolutions governing the degree of Doctor of Philosophy; and
- following examination and emendation if necessary, at least one copy (the library copy) of the dissertation must be bound in a permanent form;
- if amendments are required, all copies of the dissertation which are to remain available within the University must be amended.

Non-completion
Students who do not complete the honours year will be awarded the pass degree. Those who terminate their study prior to the end of the second semester of study will be awarded a grade of ‘DNF’ or ‘Discontinue without failure’.

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

Determination of honours
A candidate’s performance shall be assessed by a Principal Examiner and two other examiners. The Principal Examiner shall normally be the Degree Program Director unless otherwise nominated by the Dean. After consultation with the supervisor, the Principal Examiner shall appoint two examiners to examine the dissertation.

The Principal Examiner is appointed to oversee the examination process within the policies of the University for the assessment and examination of coursework.

The role of the Principal Examiner is to:

- make available to each honours student the criteria and assessment instrument for the examination of the Honours dissertation;
- ensure the appointment of two examiners for each dissertation;
- ensure that all examiners have been appropriately briefed on the assessment criteria. Where practical, new examiners will be provided with examples of dissertations, which have been assessed within various bands to help calibrate the assessment; and
- review the examiners’ reports and conduct a parity check. Parity is defined by the principle of equal marks for equivalent work.

The examiners shall report to the Principal Examiner.

The Dean shall, on the recommendation of the Principal Examiner, award the degree of Bachelor of Design in Architecture with honours whenever the following sections are satisfied:

- the examiners have recommended the degree be awarded without reservation or subject to emendations to all copies of the dissertation which are to remain available in the university; or
- the Principal Examiner unanimously accepts the recommendation of the supervisor that the degree be awarded subject to emendations despite reservations expressed by any examiner; and
- the overall performance is 70 or greater.

The Dean, on the recommendation of the Principal Examiner, 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 dissertation at 70 percent and the weighted average mark of the pass degree at 30 percent.

The honours dissertation itself receives a mark, which is recorded on the transcript next to ARCH4006. The other units will be converted to
Honours in the Bachelor of Design Computing

Admission
Students of the Bachelor of Design Computing should take the unit of study DECO3008 Design Computing Preparatory Honours Research in their third year.

To qualify to enrol in the honours program a student should have qualified for the award of the pass degree, or a similar degree from another university that is acceptable to us, or be a graduate of not more than four years standing. Students should have a weighted average mark (WAM) of at least 70 for the pass degree.

Before applying you should have an approved dissertation topic and supervisor. The supervisor must be from our academic staff. We invite you to discuss your plans with a relevant staff member. Students who complete the preparatory honours unit will probably resolve their topic and supervisor during this unit. If you are new to the University one of the Student Administration Centre staff will be able to put you in touch with someone to start the discussions. You can have an associate supervisor if you require shared supervision beyond the immediate expertise of your supervisor.

The honours year
The honours course is to be taken full time over two consecutive semesters. Enrolment is effected by taking 48 credit points, being DECO4001 and DECO4002 in the first semester and DECO4003 and DECO4004 in the second semester.

There will be no formal classes. You are expected to make arrangements for regular (weekly) contact with your supervisor on an individual basis to chart the work, receive advice, review and monitor progress. At the conclusion of the year you are expected to submit a body of work, usually a dissertation, properly bound for addition to the faculty’s Audio Visual library where there is an honours and master’s dissertation collection.

Submission date and form of dissertation
All honours dissertations are to be lodged with the supervisor by the end of the first week of the formal examination period in the final semester of enrolment.

Where this date is later than the due date for honours results for postgraduate research scholarships (eg, APA), an indicative mark will be provided by the student’s supervisor in consultation with the Principal Examiner to be based, in part, upon presentation of a draft of the dissertation to the supervisor and the Principal Examiner. If no draft is provided, no indicative mark shall be provided.

Dissertations for examination can be simply bound or held together. Examined and amended dissertations are to be permanently bound (cloth binding preferably) with the student’s name and dissertation title written on the spine. The examination copy and the permanently bound copy must include a CD-ROM or DVD which includes all software and digital documentation of the research work as appropriate. These are held permanently in the faculty’s Audio Visual library. As a guide to your own dissertation you may wish to look at this collection of works.

The dissertation should be 15,000 to 25,000 words in length. A practice-based honours dissertation has different submission requirements, described below.

Types of dissertation
Students, in consultation with their supervisor or program coordinator, should complete one of the following types of dissertations.

Design-based
The aim of a design-based dissertation is to introduce a novel design work or component technology or technology-driven design process that is realised through the introduction, incorporation, enhancement or development of cutting-edge computing. The dissertation should report on the aims and objectives of the work, the rationale and process taken in its conception and development, and a detailed reflection or empirical evaluation of the design work. Sufficient digital documentation of the designed work should be provided with the dissertation.

Model-based
A model-based dissertation aims to create a computational model of a theory or phenomenon related to design or to model design computationally based on an analogy to another system. Phenomena that have been modelled computationally include creativity, motivation and emergence. Models of design based on analogies to other systems include evolution, co-evolution and systems biology. The computational model is implemented and validated or tested to ensure verisimilitude to the phenomenon being modeled.

Empirical
An empirical study aims to characterise or explain. In design studies, empirical research is often conducted on the cognitive behaviour of designers, the social dynamics of group-based design or participatory design, or a critical study of the design of specific objects. The student will utilise a variety of quantitative and qualitative research methods including survey, interview, experimentation, participatory action research and parametric or non-parametric modelling. Where the research will include human participants, students will need to follow the University ethics policies and guidelines for research involving humans. Due to the time frame for obtaining approval for such research, students are strongly encouraged to apply early in their honours research year or to conduct their research within the framework of an existing study lead by their Supervisor.

Practice-based
A practice-based honours dissertation needs to include creative practice as an integral component in relation to the issues and questions raised in this research, its outcomes and its research approach and methods. Creative outcomes need to be new or original artwork and can include the following areas: video, composition, performance, digital photography, electronic installation, kinetic sculpture, robotic art and software/hardware prototypes; (code art, devices, smart materials, wearable technology). The creative outcome
cannot stand alone as research, but will be assessed together with a dissertation that includes research questions, objectives and a review of relevant artwork/artists in the chosen research area, as well as a written, critical reflection articulating the research process.

The practice-based dissertation includes different submission requirements:

1. Written component: Dissertation of 6,000–8,000 words which is inclusive of a 1,000–2,000 word critical reflection articulating the research process.
2. Digital documentation: Practice-based component (exhibition, performance or site-specific installation) in the form of either (i) a video DVD (5-10 mins) or audio recording (5-10 mins) or (ii) 5-10 high resolution images (eg, TIFF format) or 3 x 30 second CD quality samples.
3. Public exhibition component: The student is to organise a public exhibition (in the form of an exhibition, performance or site-specific installation) at least two weeks before the submission of the dissertation to the supervisor.

Non-completion
Students who do not complete the honours year will be awarded the pass degree. Those who terminate their study prior to the end of the second semester of study will be awarded a grade of DNF or Discontinue without failure.

Determination of honours
The honours dissertation itself receives a mark, which is recorded on the transcript next to DECO4004. The other units will be converted to R for Satisfied Requirements upon successful completion of the dissertation.

The grade of honours is determined by using a mark derived from weighting the mark for the honours dissertation at 70 percent and the weighted average mark (WAM) of the pass degree at 30 percent. While this number is not recorded on the transcript, the final class of honours awarded is.

The honours degree of Bachelor of Design Computing shall be awarded to eligible students, with the following grades:

- Honours Class I (with a mark of at least 80), or
- Honours Class II, Division 1 (with a mark of at least 75), or
- Honours Class II, Division 2 (with a mark of at least 70).

The University Medal may be awarded as described in the frequently asked questions section.

A student of the honours program who does not meet the requirements for award of honours shall be awarded the Bachelor of Design Computing pass degree.
About this chapter
This chapter explains the policies and procedures for overseas exchange for undergraduate students in the following degrees:

- Bachelor of Design in Architecture
- Bachelor of Design Computing

Exchange in the Bachelor of Design in Architecture
- The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours.
- Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student’s program must be approved in consultation with the Degree Program Director.
- Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University.
- Specially designated units of study will be recorded on the students’ transcript. A result of ‘R’ for ‘Satisfied Requirements’ will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student’s Weighted Average Mark.
- For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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</table>
Exchange in the Bachelor of Design Computing

- The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours.
- Exchanges may be for one or two semesters. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student’s program must be approved in consultation with the program director of the degree.
- Exchange students are required to enrol in a full-time load at the University of Sydney in each semester of exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner university.
- Exchange units should be taken as part of the degree, satisfying the requirements that would normally be covered at this university during the same period. Exchange should not be in addition to the degree requirements.
- Specially designated units of study will be recorded on the transcript. A result of ‘R’ for ‘Satisfied Requirements’ will be recorded by this university against each successfully completed unit. The transcript of the exchange university will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count towards a student’s Weighted Average Mark.
- The exchange units for enrolment at the University of Sydney, to be approved with the program director, shall be selected from the following table.
- For advice on exchanges please contact the Student Adviser in the Faculty of Architecture, Design and Planning Student Administration Centre.

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
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</table>
This chapter contains specific resolutions governing the undergraduate degrees in the Faculty of Architecture, Design and Planning. These resolutions should be read in conjunction with unit of study information in Table A (Bachelor of Design in Architecture) and Table B (Bachelor of Design Computing), and the Senate and Faculty resolutions outlined in the chapter under Faculty policies, procedures and facilities, earlier in the book.

The resolutions in this chapter are arranged in the following order:

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

Bachelor of Design in Architecture

Bachelor of Design in Architecture (Honours)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course codes

<table>
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<tr>
<th>Code</th>
<th>Course title</th>
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<tbody>
<tr>
<td>CH020</td>
<td>Bachelor of Design in Architecture</td>
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<tr>
<td>CH043</td>
<td>Bachelor of Design in Architecture (Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for these courses is full time only.

3 Streams

(1) The Bachelor of Design in Architecture is available in the following streams:
   (a) Allied Arts in Architecture
   (b) Digital Architecture
   (c) Urban Design and Planning.
(2) Completion of a stream is not a requirement of the course.
(3) Candidates may transfer between streams.

4 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Rule.

5 Requirements for award

(1) The units of study that may be taken for this award are set out in Table A.
(2) To qualify for the award of the pass degree, a candidate must successfully complete 144 credit points, comprising:
   (a) 102 credit points of core unit of study;
   (b) a minimum of 12 credit points of senior units of study listed elsewhere in Table A;
   (c) for the chosen stream, not less than 18 credit points from the units of study for that stream, as listed in Table A.
(3) A maximum of two streams can be awarded and must be completed within the required 144 credit points.
(4) Candidates for the Bachelor of Design in Architecture proceeding to the Master of Architecture are required to complete the designated prerequisite units of study listed in Table A.

6 Requirements for the Honours degree

(1) Honours is available to meritorious candidates who complete an additional year of full time study, after the completion of the pass degree.
(2) Admission, requirements and award of Honours are according to the resolutions of the Faculty of Architecture, Design and Planning.

7 Award of the degree

(1) The Bachelor of Design in Architecture is awarded in the grades of either Pass or Honours. The honours degree is awarded in classes ranging from First Class to Second Class according to the rules specified in the Resolutions of the Faculty of Architecture, Design and Planning.
(2) Candidates for the award of the Honours degree who do not meet the requirements, and who have not already graduated, will be awarded the pass degree. Students who fail or discontinue the honours program may not re-enrol in it, except with the approval of the Dean.

8 Credit for previous study

Credit transfer is subject to the provisions of the Coursework Rule and the Resolutions of the Faculty of Architecture, Design and Planning. All candidates for the Bachelor of Design in Architecture, not withstanding any credit transfer, must complete BDES3010, BDES3011, BDES3012, BDES3020, BDES3023 and not less than 6 additional senior credit points of units of study from Table A.

9 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.
(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
Bachelor of Design Computing

Bachelor of Design Computing (Honours)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course codes

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CH009</td>
<td>Bachelor of Design Computing</td>
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<tr>
<td>CH042</td>
<td>Bachelor of Design Computing (Honours)</td>
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</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Rule.

4 Requirements for award

(1) The units of study that may be taken for this award are set out in Table B.

(2) To qualify for the award of the pass degree, a candidate must successfully complete 144 credit points comprising:
   (a) 84 credit points of core unit of study
   (b) at least 18 credit points of electives from the Faculty of Engineering and Information Technologies, of which at least 6 credit points of these must be at 2000 level or higher
   (c) at least 18 credit points of electives from the Faculty of Arts, Economics and Business or Science electives, of which at least 6 credit points of these must be at 2000 level or higher
   (d) a maximum of 24 credit points of electives from Table B
   (e) a minimum of 72 credit points of the above must be from senior units.

5 Requirements for the Honours degree

(1) Honours is available to meritorious students who complete an additional year of full time study, after the completion of the pass degree.

(2) Admission, requirements and award of Honours are according to the resolutions of the Faculty of Architecture, Design and Planning.

6 Award of the degree

(1) The Bachelor of Design Computing is awarded in the grades of either Pass or Honours. The honours degree is awarded in classes ranging from First Class to Second Class according to the rules specified in the Resolutions of the Faculty of Architecture, Design and Planning.

(2) Candidates for the award of the Honours degree who do not meet the requirements, and who have not already graduated, will be awarded the pass degree. Students who fail or discontinue the honours program may not re-enrol in it, except with the approval of the Dean.

7 Credit for previous study

Credit transfer is subject to the provisions of the Coursework Rule and the Resolutions of the Faculty of Architecture, Design and Planning. All candidates for the Bachelor of Design Computing, notwithstanding any credit transfer, must complete DECO3100 and DECO3200 and not less than 12 additional senior credit points of units of study from Table B.

8 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 and who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.

Combined degree

The following degree is offered jointly with the Faculty of Engineering and Information Technologies. The Faculty of Engineering and Information Technologies is the point of contact for all enquiries regarding admission, candidature and graduation.

Bachelor of Engineering and Bachelor of Design in Architecture

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course resolutions

1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH046</td>
<td>Bachelor of Engineering and Bachelor of Design in Architecture</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Streams

(1) The Bachelor of Engineering is available only in the Civil Engineering stream in this combined degree program. Completion of a stream is a requirement of the Bachelor of Engineering.

(2) Streams available for the Bachelor of Design in Architecture are listed under the course resolution for the Bachelor of Design in Architecture. Completion of a stream is not a requirement of the course. Candidates may transfer between streams in the Bachelor of Design in Architecture.
4 Cross faculty management

(1) Candidates in this combined degree program will be under the general supervision of the Faculty of Engineering and Information Technologies for the duration of the combined program.

(2) The Deans of the Faculty of Engineering and Information Technologies and the Faculty of Architecture, Design and Planning shall jointly exercise authority in any matter concerned with the combined course not otherwise dealt with in these resolutions.

5 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Rule.

6 Requirements for award

To qualify for the award of the combined degree, a candidate must successfully complete 240 credit points in accordance with the unit of study tables for the Civil Engineering combined with Design in Architecture degree.

7 Requirements for the Honours degree

(1) Honours is available to meritorious candidates, in either or both the Bachelor of Engineering or the Bachelor of Design in Architecture.

(2) Admission and award requirements for honours in the Bachelor of Engineering are listed in the resolution for the Bachelor of Engineering degree. Admission and award requirements for honours in the Bachelor of Design in Architecture are listed in the resolutions of the Faculty of Architecture, Design and Planning.

8 Award of the degrees

(1) Candidates will be awarded a separate testamur for each degree completed.

(2) The Bachelor of Engineering and the Bachelor Design in Architecture are awarded in the grades of either Pass or Honours. The honours degrees are awarded in classes ranging from First Class to Second Class according to the rules specified in the Resolutions of the Faculty of Engineering and Information Technologies and the Faculty of Architecture, Design and Planning.

(3) Candidates who do not meet the requirements for the award of the Bachelor of Engineering (Honours) but have otherwise satisfied the requirements of the Bachelor of Engineering shall graduate with the pass degree.

(4) Candidates for the award of the Bachelor of Design in Architecture (Honours) who do not meet the requirements, and who have not already graduated, will be awarded the pass degree.

9 Course transfer

A candidate may abandon the combined program and elect to complete either the Bachelor of Engineering or the Bachelor of Design in Architecture in accordance with the resolutions governing that degree. Completion of the abandoned degree in the future will require a new application for admission to that course and completion in accordance with the resolutions governing that degree.

10 Transitional provisions

(1) These resolutions apply to persons who commenced their candidature after 1 January, 2011 and persons who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
About this chapter

This chapter lists the descriptions of all undergraduate units of study offered by the Faculty of Architecture, Design and Planning, in unit of study code order. For information about how these units of study fit into your specific degree structure please refer to:

- Bachelor of Design in Architecture: Table A
- Bachelor of Design Computing: Table B

You should pay special attention to any enrolment information and instructions. If a unit requires department permission it means you need to have the academic in charge sign a special permission form to bring to the Student Administration Centre counter before you can be enrolled. For a full explanation of some of the terms you will encounter in this list please see the glossary at the rear of the handbook.

Unit descriptions

ARCH4003
Dissertation and Research Methods A
Credit points: 12 Teacher/Coordinator: Assoc. Prof Chris Smith Session: Semester 1, Semester 2 Prerequisites: Completion of the Pass degree with a WAM of at least 70. Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Bachelor of Design in Architecture honours students only.

Students must submit an Honours application form. Entry into Honours in the Bachelor of Design in Architecture requires you to have completed your pass degree with a Weighted Average Mark of at least 70.

The honours degree requires full time study over two semesters (ARCH4003 and ARCH4004 and then ARCH4005 and ARCH4006). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which ARCH4006 Dissertation and Research Methods D is taken.

ARCH4004
Dissertation and Research Methods B
Credit points: 12 Teacher/Coordinator: Assoc. Prof Chris Smith Session: Semester 1, Semester 2 Prerequisites: ARCH4003 Mode of delivery: Normal (lecture/lab/tutorial) Day

Students must submit an Honours application form. Entry into Honours in the Bachelor of Design in Architecture requires you to have completed your pass degree with a Weighted Average Mark of at least 70.

The honours degree requires full time study over two semesters (ARCH4003 and ARCH4004 and then ARCH4005 and ARCH4006). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which ARCH4006 Dissertation and Research Methods D is taken.

ARCH4005
Dissertation and Research Methods C
Credit points: 12 Teacher/Coordinator: Assoc. Prof Chris Smith Session: Semester 1, Semester 2 Prerequisites: ARCH4004 Mode of delivery: Normal (lecture/lab/tutorial) Day

Students must submit an Honours application form. Entry into Honours in the Bachelor of Design in Architecture requires you to have completed your pass degree with a Weighted Average Mark of at least 70.

The honours degree requires full time study over two semesters (ARCH4003 and ARCH4004 and then ARCH4005 and ARCH4006). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which ARCH4006 Dissertation and Research Methods D is taken.

ARCH4006
Dissertation and Research Methods D
Credit points: 12 Teacher/Coordinator: Assoc. Prof Chris Smith Session: Semester 1, Semester 2 Prerequisites: ARCH4005 Mode of delivery: Normal (lecture/lab/tutorial) Day

Students must submit an Honours application form. Entry into Honours in the Bachelor of Design in Architecture requires you to have completed your pass degree with a Weighted Average Mark of at least 70.

The honours degree requires full time study over two semesters (ARCH4003 and ARCH4004 and then ARCH4005 and ARCH4006). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which ARCH4006 Dissertation and Research Methods D is taken.

AWS1001
Architectural Sketching and Drawing
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1 Prerequisites: None Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Students may incur costs for materials in some Art Workshops units.

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. On successful completion of this unit of study students will have demonstrated familiarity with a range of drawing media and techniques, including charcoal, graphite, conte crayon, pen, brush and ink, as well as being introduced to colour and mixed media. 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 design areas. Each technique and approach will be presented against a background of art history and current architectural practice. Students will understand the importance of maintaining a 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.

AWSS2001
Public Art
Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1
Classes: Two hours per week. Assessment: Research Journal (40%), Essay and Oral presentation (60%) Practical field work: 2 x 3hr field trips (held on Saturdays). Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting.

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, (eg. the Vietnam Memorial in Washington and the Sydney Olympic Public Art Projects) and slide lectures will complement the theoretical content of Public Art.

AWSS2002
Site Specific Art
Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 2
Classes: Three hours per week. Assessment: Commitment and attendance (20%); experimentation (20%); quality of work, competence with materials (20%); innovation (20%); contribution to discussion and critical thinking (20%) Practical field work: Studio practice. Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting.

This practical unit aims to give students a broad understanding of site-specific art including its historical development and relationship to other visual art forms and architecture. Students gain experience in ways of selecting and analysing sites for the purposes of incorporation into artwork. Students begin to develop an individual artistic practice through using a wide range of materials to make temporary site-specific artworks and also begin to develop ways of analysing and evaluating site-specific artworks through directed group discussions.

AWSS2010
Ceramics (Handbuilding)
Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1
Classes: Three hours per week. Assessment: Studio projects (60%); Process Journal and associated assignments (40%) Practical field work: Studio practice Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting.

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.

AWSS2011
Ceramics (Wheel Throwing)
Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1, Semester 2
Classes: Three hours per week. Assessment: Studio projects (60%); Process Journal and associated assignments (40%) Practical field work: Studio practice Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting.

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.

AWSS2012
Digital Video
Credit points: 6  Teacher/Coordinator: Ms Zanny Begg  Session: Semester 1, Semester 2
Classes: Three hour workshop per week. Assessment: Assessment is based on participation, written film synopsis and evaluation, individual and group digital video projects. group work (50%), individual work (50%), (20% written assessment individually assessed 80% practical assessment.) Practical field work: Studio practice Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

This practical unit aims to explore the languages of moving images; conventions of framing, movement and editing; developing a fundamental understanding of the technical aspects of pre-production, production and post-production; and generate independent and cooperative working methods using a variety of media. Students will be introduced to digital video systems with up-to-date editing software. Emphasis is placed on skills development, process/storyboarding and ideas. The module is divided into units exploring approaches to lighting, shooting, editing, sound production and concept development.

AWSS2014
Printmaking
Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1, Semester 2
Classes: Three hours per week. Assessment: Studio projects (60%); research journal and associated assignments (40%) Practical field work: Studio practice Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

This practical unit aims to give students a broad understanding of how an etching is developed, offering contemporary non-toxic alternatives to traditional etching. A wide range of mark making techniques will be applied combining collage, photography, photocopyst art, textural found objects, digital images, as well as the traditional discipline of drawing. Students will gain knowledge of fundamental plate making techniques, and their different applications through demonstration, slide lectures and discussion. Other forms of printmaking, such as lino cuts and mono prints maybe also explored.

Students will be introduced to the history/theory of printmaking as an art form in contemporary art. Printmaking’s relationship to architecture and digital media will be also discussed. Particular emphasis will be placed on the production of a high quality print portfolio on state of the art printmaking papers.

AWSS2015
General Drawing
Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1, Semester 2
Classes: Three hours per week. Assessment: Portfolio (60%); Process Journal (40%) Practical field work: Studio practice Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting.
This module aims to provide the student with the knowledge 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. It aims to increase the student’s level of skill in representational, interpretive and expressive areas of drawing. The focus is on the formal aspects of composition and perspective as well as mixed media and experimental approaches. Students use a wide variety of mark-making methods to render line, tonal value and texture. Students are provided with the opportunity to combine sound observational skills with imaginative and experimental techniques in order to encourage a personal vision and a commitment to the practice of drawing. Drawing is a discipline in its own right as well as a fundamental skill in all design areas. Each technique and approach will be presented against a background of art history and theory.

AWSS2016 Graphic Design (Introduction)
Credit points: 6 Teacher/Coordinator: Mr Mark Jones and Ms Teena Clerk Session: Semester 1, Semester 2 Classes: Three hours per week. Assessment: Process Journal and exercises (25%); Studio projects and associated assignments (45%); Practical final project and presentation (30%). Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Til Sheds Gallery. Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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.

AWSS2018 Life Drawing
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1, Semester 2 Classes: Three hours per week. Assessment: Studio practice, evidence of familiarity with materials and techniques (10%); presentation of a portfolio of drawings representative of the exercises and projects undertaken throughout the course (45%); presentation of a research journal (45%); Practical project and presentation (40%); Process Journal and exercises (25%); Studio projects and associated assignments (45%); Practical project and presentation (40%). Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Til Sheds Gallery. Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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. It 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, focusing 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.

AWSS2019 Mixed Media
This unit of study is not available in 2011
Credit points: 6 Teacher/Coordinator: Ms Jan Fieldsend Session: Semester 2 Classes: Three hours per week. Assessment: Studio projects and associated assignments. Practical project and presentation (60%); Process Journal and exercises (40%). Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Til Sheds Gallery. Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

In the twentieth century, collage techniques 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, painting 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.

AWSS2020 Object Design
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1, Semester 2 Classes: Three hours per week. Assessed knowledge: Completed an ATSC workshop proficiency class. Assessment: Portfolio of works and presentation (60%); process journal and associated assignments (40%). Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Til Sheds Gallery. Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

In this unit students develop and inter-relate manufacturing and artisan skills with research, analysis and design development. It 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.

AWSS2022 Painting
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1, Semester 2 Classes: Three hours per week. Assessment: Portfolio of works and presentation (60%); process journal and associated assignments (40%). Practical project and presentation (60%); Process Journal and exercises (40%). Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Til Sheds Gallery. Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.
This module aims to provide the student with the knowledge 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.

AWS2023
Photography 1
Credit points: 6
Teacher/Coordinator: Mr Mark Jones
Session: Semester 1, Semester 2
Classes: Three hours per week.
Assessment: Process Journal and associated assignments (40%); final project and presentation (60%)
Practical field work: Studio practice
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place. Students may incur costs for materials in some Art Workshops units.

This practical unit assumes students have little or no understanding of dark room practice. It 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. Students should have access to a 35mm SLR film camera.

AWS2024
Photography 2
Credit points: 6
Teacher/Coordinator: Mr Mark Jones and Ms Paola Talbert
Session: Semester 1, Semester 2
Classes: Three hours per week.
Prerequisites: AWS2023 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.
Assessment: Process Journal and associated assignments (40%); final project and presentation (60%)
Practical field work: Studio practice
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

In this unit of study, students will have the opportunity to develop creative photographic projects from initial ideas to production of artwork, producing a major photographic series that 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.

AWS2026
Screen Printing on Paper
This unit of study is not available in 2011
Credit points: 6
Teacher/Coordinator: Ms Jan Fieldsend
Session: S1
Intensive Classes: Three hours per week.
Assessment: Studio projects and associated assignments.
Practical field work: Studio practice
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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.

AWS2027
Sculpture
Credit points: 6
Teacher/Coordinator: Mr Mark Jones
Session: Semester 1, Semester 2
Classes: Three hours per week.
Assessment: Journal and associated assignments (40%); projects and presentation (60%)
Practical field work: Studio practice
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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.

Students will 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.

AWS2028
Web Art and Design
Credit points: 6
Teacher/Coordinator: Mr Mark Jones
Session: Semester 1, Semester 2
Classes: Three hours per week.
Assessment: Online Journal/blog (35%); studio projects and associated assignments (65%)
Practical field work: Studio practice
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

The Web Art and Design unit of study aims to introduce Web design and internet page creation within the context of contemporary art. The practical 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 the very form of the internet. Students are expected to have a basic knowledge of Web design and the internet.
BDES1010
Architecture Studio 101
Credit points: 6 Teacher/Coordinator: Dr Ross Anderson Session: Semester 1 Classes: Lecture 1 hour/week, studio 5 hours/week Corequisites: BDES1011, BDES1012 Prohibitions: DESA1001 Assumed knowledge: HSC Mathematics and HSC English Standard or equivalent Assessment: Project (70%), Portfolio (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit of study introduces students to the skills and knowledge required to produce creative, innovative and appropriate solutions to architectural problems. It seeks to develop the architectural imagination as a dialogue between poetic thought and pragmatic material circumstance, nurturing the capacity to move back and forth between conceptual, intuitive levels of reference and the precise skills required for credible technical resolution. It expands students’ vocabulary of architecture through study of relevant precedents and examination of techniques for spatial organization. Students develop a preliminary understanding of contemporary architectural theory and employ a range of architectural representation techniques.

Class preparation 6 hours/week

BDES1011
Architectural History/Theory 1
Credit points: 6 Teacher/Coordinator: Dr Chris L Smith Session: Semester 1 Classes: Lectures 2 hrs pw/Tutorials 1 hr per wk. Prohibitions: DESA1102 Assumed knowledge: HSC Mathematics and HSC English Standard or equivalent Assessment: Report (40%); project (20%); tutorial participation (10%); exam (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit of study introduces students to the discourse of architectural history and theory. It commences with a concise chronological survey of key periods of architectural history from antiquity to the present day, providing an overview of the scope of the field and establishing initial points of reference. It then changes focus to investigate more closely the ways in which particular architectural themes and ideas traverse across history, coming to the fore in certain periods and receding in others. Students will interrogate these themes in small groups through intense study of a single significant building, which they will research, document and illustrate in a written report, and re-construct as a finely crafted scale model. They will be introduced to fundamental principles and skills of scholarly research, including locating and evaluating sources, and constructing arguments.

Lectures 2 hrs pw/Tutorials 1 hr per wk/ Presentation/Exhibition 1 Class preparation 5 hours/week

BDES1012
Architectural Communications 1
Credit points: 6 Teacher/Coordinator: Dr Sarah Benton Session: Semester 1 Classes: Lectures 1 hr/wk; Tutorials 5 hrs/wk Corequisites: BDES1010, BDES1011 Prohibitions: DESA1001 Assumed knowledge: HSC Mathematics and HSC English Standard or equivalent Assessment: Portfolio (30%); sketchbook (70%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit of study introduces students to fundamental modes of communication used to comprehend, conceive, explore, articulate and document architecture. It covers the domains of sketching, technical drawing, model making, verbal and written communication, diagramming and photography. It both acquaints students with technical skills and encourages their creative deployment through practical experimentation.

Reinforcing the theoretical interrogation explored in Architectural Theory 1, students employ communication techniques in developing a narrative of representations and presentation of a single significant historical precedent. Students document, illustrate and model the building primarily through analogue media.

Class preparation: 6 hr/wk

BDES1020
Architecture Studio 102
Credit points: 6 Teacher/Coordinator: Prof Sandra Kaj-O'Grady Session: Semester 2 Classes: Lectures:1 hour/week, Studio 5 hours/week Prerequisites: BDES1010 or DESA1001 Corequisites: BDES1023, BDES1002 Prohibitions: DESA1002 Assumed knowledge: BDES1011, BDES1012 Assessment: Project (40%); presentation/project (30%); portfolio (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit of study further develops and applies the skills and knowledge gained in Studio 101 in response to increasingly concrete and complex programmatic and contextual issues. The design of a single building in a complex international urban context is advanced through a series of iterations with an emphasis on practical experimentation at a range of scales and in a range of media. The work is drawn together into a final presentation comprising a finely crafted model and panels of drawings of an exhibition standard.

Presentation 1 Hour. Class preparation 6 hours/week,

BDES1023
Architectural Technologies 1
Credit points: 6 Teacher/Coordinator: Ms Kristine Sodersten Session: Semester 2 Classes: 1 x 3hr lectures/week, 1 x 4 hr tutorial/week commencing week 2, 1 site visit Corequisites: BDES1020, BDES1024 Prohibitions: DESA1102 Assessment: 1 x Assignment (60%) and 1 x 2hr exam (40%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Architectural Technologies 1 introduces the role of environmental design, structures and construction in architectural design. This unit introduces basic concepts and principles in each area, and then demonstrates their applications in building designs through case studies and design-based exercises. These exercises progressively introduce students to knowledge required for the analysis, synthesis and construction of technical systems applicable to small scale and single-space buildings.

Class preparation: 6 hr/wk

BDES1024
Art Workshop 1
Credit points: 6 Teacher/Coordinator: Ms Jan Fieldsend Session: Semester 2 Classes: 3x1 hour lecture/per semester, 1x3hr Studio, 1x3hr presentation and crit/week 13 Corequisites: BDES1020, BDES1023 Assessment: Portfolio of Studio Work and Research Journal Assignments for each Module (3x30%); Gallery Reviews (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day

In this unit of study first year architecture students begin to shape and communicate their ideas and experiences in a variety of art practices. Three separate studios within one semester seek to foster technical, creative and conceptual skills with a particular emphasis on the sensory and imaginative interactions between making, materials and meaning. A combination of specific disciplines including - sculpture, ceramics, photography, painting, drawing, printmaking, sound and mixed media - and the maintenance of a research diary (including gallery reviews) extend students’ understanding of their own creative process and how art may contribute to their thinking and practice in general. A framework of lectures, artist talks, gallery visits and readings asks students to consider the dynamic interchange between historical, cultural and environmental concerns, and contemporary visual arts.

BDES2010
Architecture Studio 201
Credit points: 6 Teacher/Coordinator: AProf Anna Rubbo Session: Semester 1 Classes: Lectures: 1 hr/week, Studio 5 hours/week Prerequisites: BDES1020 or DESA1002 Corequisites: BDES2012, BDES2013 Prohibitions: DESA2001 Assessment: Class participation (15%); Report (10%); project (60%); portfolio (15%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit introduces the discipline of landscape architecture, including an understanding of ecological processes and natural systems as they impact the design of buildings in green field and urban landscapes. The unit focuses on the imaginative design of buildings in landscapes that support social and environmental sustainability and ethical awareness. Learning objectives include development of skills needed for design informed by research, collaborative work processes, knowledge of site analysis and master planning, and an appreciation of the meaning of place.

Class preparation 6 hr/wk

Textbooks
Jellicoe, G and S, The landscape of man: shaping the environment from prehistory to the present, 1975, Thames and Hudson.
This unit of study introduces experimental digital technology into modes of architectural communication. It re-considers imagery, modelling, and verbal and written communication through computer-aided operations, interfaces and projective techniques. The course equips students with knowledge of digital drafting and modelling, texture mapping, lighting, rendering and digital fabrication technologies, and encourages their creative application.

Reinforcing the parallel design and technologies courses, students employ communication techniques for representations and presentation of a single significant historical precedent. Students document, illustrate and model the building primarily through digital media.

Class preparation: 6 hr/wk

BDES2020 Architectural Studio 202
Credit points: 6 Teacher/Coordinator: Ms Kristine Sodersten Session: Semester 2 Classes: Lectures: 1 hr/wk; studio 5 hr/wk Prerequisites: BDES2010 or DESA2001 Corequisites: BDES2021, BDES2024 Prohibitions: DESA2111 Assessment: Class participation (15%); Report (10%), project (60%); portfolio (15%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit builds on knowledge and skills gained in semester 1 of second year. It introduces the concept of the client as an actor in the design process and focuses on the imaginative design of a building that supports a healthy environment, social and environmental sustainability, cultural responsiveness and ethical awareness. Learning objectives include development of skills needed for design informed by research, participatory and collaborative work processes, and an appreciation of the way in which architecture can help create meaning in people’s lives.

Class preparation 6 hr/wk

Textbooks

BDES2021 Architectural History/Theory 2
Credit points: 6 Teacher/Coordinator: Dr Ducanfeng Lu Session: Semester 2 Classes: Lectures:1.5 hr/wk; tutorial 1.5 hr/wk Prerequisites: BDES1011 Prohibitions: DESA2111 Assessment: Class participation (15%); article review (30%); architectural criticism presentation (30%); small group research project (25%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit exposes students to a variety of issues related to the cultural, social, ethical and global aspects of contemporary architecture.

Drawing on diverse perspectives, the unit provides an overview of theories and case studies that have examined the interrelationship between space, society and power in Australia, Asia and other parts of the world. By introducing concepts such as place, landscape, tradition, identity and discourse, the unit aims to enhance students’ capability to reflect on the values embedded in design and develop their own understanding of the relationship between architecture and society. The unit investigates the built environment from a comprehensive global perspective and encourages students to think architectural design critically within a context of social diversity and sustainability. The unit will also introduce some influential theoretical trends since 1960 that have sought to relate the analysis of architecture to wider social and historical conditions.

Class preparation 6 hr/wk
BDES2612
Architecture Exchange Communications 2
Credit points: 6  Session: Semester 1, Semester 2  Mode of delivery: Normal (lecture/lab/tutorial)  Day
Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

BDES2613
Architecture Exchange Technologies 2
Credit points: 6  Session: Semester 1  Mode of delivery: Normal (lecture/lab/tutorial)  Day
Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

BDES2616
Architecture Exchange Elective 2B
Credit points: 6  Session: Semester 2  Mode of delivery: Normal (lecture/lab/tutorial)  Day
Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

BDES2617
Architecture Exchange Elective 2C
Credit points: 6  Session: Semester 1, Semester 2  Mode of delivery: Normal (lecture/lab/tutorial)  Day
Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program...
must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will be recorded on the students' transcript. A result of 'R' for 'Satisfied Requirements' will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

BDES2620
Architecture Exchange Studio 202
Credit points: 6 Session: Semester 2 Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study will be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will be recorded on the students' transcript. A result of 'R' for 'Satisfied Requirements' will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

BDES3010
Architecture Studio 301
Credit points: 6 Teacher/Coordinator: Dr Duangfong Lu Session: Semester 2 Classes: Lectures: 2 hr/week, studio 4 hours/week Prerequisites: BDES1010, BDES1011, BDES1012, BDES1020, BDES1023, BDES1024, BDES2010, BDES2013, BDES2012, BDES2020, BDES2021, BDES2024 or the equivalents from DESA1001, DESA1002, DESA1101, DESA1102, DESA2001, DESA2002, DESA2111 Corequisites: BDES3011, BDES3012 Prohibitions: DESA3001 Assessment: Portfolio (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Progression to BDES3010 requires successful completion of all preceding BDES10XX and BDES20XX units of study or the successful completion of all preceding Design Practice and Design Studies units of study.

This unit of study introduces students to the design skills and knowledge required to produce a conceptual and experimental solution to a medium-scale urban architectural problem. It seeks initially to refine student's skills in the analysis of public space, urban design, and historical and theoretical contexts. Students deploy the analysis in creative and experimental ways in designing medium scale architecture with a complex program within the urban context.

Students integrate multiple criteria (contextual, sustainable, urban design, structural, material, constructional) into a design within a rigorous conceptual and theoretical framework. Students utilize their developing understanding of contemporary theory and critique and a range of architectural representation techniques.

Class preparation 7 hours/week

BDES3011
Architectural History/Theory 3
Credit points: 6 Teacher/Coordinator: Dr Ross Anderson Session: Semester 2 Classes: Lectures 2 hr/week, Tutorials 1 hr/week Prerequisites: BDES2021 or DAAP3001 Prohibitions: DAAP3001 Assessment: Weekly tutorial proformas (30%); Research paper and verbal presentation (70%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit of study surveys contemporary architectural discourse through the study and analysis of central texts and architectural sources. Architectural discourse will be understood as a wide array of interlocking 'regimes of thought', each of which has its own multiple histories, transformations and unique effects. Students will become generally conversant in the principles of these central theories, and will understand some of their terms and references. They will explore the way that theory is produced and deployed at every level of architectural discourse from the seemingly casual discussions in the design studio to formal written arguments. Paying close attention to the exchange between thought and action, they will explore the relevance of the discussed theories to the formation of current circumstances, and to the place of architecture within contemporary culture as a whole. Students take responsibility for their own learning, engaging in continuous reflection and developing skills in oral, written, and visual forms of communication to critique, create and articulate knowledge. They will be introduced to fundamental principles and skills of scholarly research, including locating and evaluating sources, and constructing arguments.

Lectures 2 hr/week; Tutorials 1 hr/week; Presentation 1 hr, Class preparation: 5 hr/week
**BDES3012 Architectural Communications 3**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Sarah Benton  
**Session:** Semester 1  
**Classes:** Lectures 1 hr/wk, Tutorials 5 hr/wk  
**Prerequisites:** BDES2002 or DESA2002  
**Corequisites:** BDES3010 and (BDES3011 or DAAP3001)  
**Prohibitions:** DESA3001  
**Assessment:** Portfolio (30%); Sketchbook (70%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

This unit of study consolidates students' knowledge of the techniques and strategies available for communicating architecture, and advances the domains of drawing, imagery and modeling through concepts of movement and simulation. Students are introduced to interoperable animation and database software used for simulation and documentation of architecture. It instills in students sensitivity for employing a hybrid set of techniques and introduces them to dynamic communication procedures deployed in professional architectural practice.  

Reinforcing the parallel design course, students employ communication techniques for representations and presentation of their own design project. Students document, illustrate and model the building through a range of media.  
**Class preparation:** 6 hr/wk

**BDES3020 Architecture Studio 302**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Chris L Smith  
**Session:** Semester 2  
**Classes:** Lectures 1 hr/wk, studio 5 hr/wk  
**Prerequisites:** BDES3010 or DESA3001  
**Corequisites:** BDES3023 or DAAP3002  
**Prohibitions:** DESA3002  
**Assessment:** Field Studies (10%); Project (50%); Portfolio (40%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

Studio 302 is a graduating studio for the degree, building students' capacities as interpretive, insightful and innovative architectural designers. This studio is a 'capstone experience', integrating knowledge and skills developed through the degree. Through the design of a key civic building, it focuses on the exploration, integration and expression of architectural ideas through technical materiality. This is explored through an extended field trip, associated studies in architectural technology and consultancies with professionals. Theory and inquiry inform the development of the project brief and the exploration of conceptual ideas, while communications studios and workshops support the skills required to express design ideas at a pre-professional level. Group work, peer learning, engagement and judgment abilities are developed through a collaborative working studio.  
**Lectures** 1 hr/wk, studio 5 hr/wk, **Field trip** 18 hrs  
**Class preparation:** 6 hr/wk

**BDES3023 Architectural Technologies 3**

**Credit points:** 6  
**Teacher/Coordinator:** Kristine Sodersten  
**Session:** Semester 2  
**Classes:** Lecture 2hrs/week, Tutorial 2hrs/week  
**Prerequisites:** BDES2013 or DESA2111  
**Corequisites:** BDES3020  
**Prohibitions:** DAAP3002  
**Assessment:** Assignment (60%), Exam (40%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

Architectural Technologies 3 investigates advanced and complex building systems in architecture, both overall and in detail, from the three interwoven perspectives of environmental design, structures and construction. The unit focuses on the two key aspects of decision making and integration in the design of technical systems for buildings. The main design project is used as a vehicle for demonstrating the knowledge gained in investigating the requirements and synthesising of an appropriate building system that responds to and integrates each of these three perspectives.  
**Lectures** 1 hr/wk; **Studio** 3 hr/wk; **Field Trip** 3hrs  
**Class preparation:** 6 hr/wk

**BDES3025 Architectural Professional Practice**

**Credit points:** 6  
**Teacher/Coordinator:** Paul Berkemeier  
**Session:** Semester 2  
**Classes:** Lectures 2 hrs/wk; Studio 3 hrs/wk  
**Corequisites:** BDES3020  
**Assessment:** Field studies report (10%); Brief development report (10%); Project presentation (80%)  
**Mode of delivery:** Professional Practice

**Professional Practice** introduces graduating students to the practice of architecture. The unit focuses on design development in regulatory and practice management frameworks. Students are introduced to the principles of key regulatory requirements and use these understandings to critically appraise the design decisions throughout the studio. They develop their understanding through the design development of a project and take this to Development Application level using current practice.  
**Lectures** 2 hrs/wk; Studio 3 hrs/wk; **Field Trips** 6hrs, **Class preparation:** 5hrs/wk

**BDES3010 Architecture Exchange Studio 301**

**Credit points:** 6  
**Session:** Semester 1  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will be recorded on the students' transcript. A result of 'Satisfied Requirements' will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

**BDES3011 Architecture Exchange History/Theory 3**

**Credit points:** 6  
**Session:** Semester 1  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will be recorded on the students' transcript. A result of 'Satisfied Requirements' will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.
BDES6026 Architecture Review
Credit points: 6  Teacher/Coordinator: Assoc Prof Chris L. Smith  Session: Semester 2  Classes: workshops 1.5 hrs/week  Assessment: 1 x illustrated process journal (60%); 1 x group performance (40%)  Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of the Architecture Revue Unit of Study is to explore the relationship between architecture and performance. Students engage in the simultaneity of the creation and performance of a theatrical work focussed on architecture, architectural critique and stagecraft. The UoS will enable students to define, draw and then continually reconfigure boundaries between theatrical spaces, narrative, imagined spaces, senses and concrete physical environments.

Class preparation 3hrs/wk Assessment preparation 6hrs/semester

DAAE2001 20th Century Australian Architecture
Credit points: 6  Teacher/Coordinator: Mr Trevor Howells  Session: Semester 2  Classes: 3 hrs/wk of lectures/seminars  Assessment: One seminar presentation and one 3000 word essay (100%)  Mode of delivery: Normal (lecture/lab/tutorial) Day

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.

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

This unit is an Architecture Elective in the Bachelor of Design in Architecture and elective in other courses. Contact hours: 3 hours per week. Class preparation: 1 hour per week. Assessment preparation 26 hours per semester.

Undergraduate unit of study descriptions

BDES6315 Architecture Exchange Elective 3A
Credit points: 6  Session: Semester 1  Mode of delivery: Normal (lecture/lab/tutorial) Day  Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will be recorded on the students' transcript. A result of 'R' for 'Satisfied Requirements' will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

BDES6312 Architecture Exchange Communications 3
Credit points: 6  Session: Semester 1  Mode of delivery: Normal (lecture/lab/tutorial) Day  Note: Department permission required for enrolment.

The faculty may approve international exchange for qualified students who have completed at least one full year of study. All students must complete the final semester of third year at the University of Sydney. Exchange will not be considered for honours. Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student's program must be approved in consultation with the Degree Program Director. Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units of study should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given by the student as to how they will be able to complete the degree requirements when they return, paying attention to the semester of offer of the core units. Exchange students are required to enrol in a full-time load at the University of Sydney whilst on exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner University. Specially designated units of study will be recorded on the students' transcript. A result of 'R' for 'Satisfied Requirements' will be recorded by the University against each successfully completed unit of study. The transcript of the exchange University will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count against a student's Weighted Average Mark. For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.
As with the other units 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 unit content. The objectives of the assessment procedure are to have participants demonstrate their understanding of the knowledge presented in each of the areas of the unit 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; and by specifically linking those outcomes to the attributes of the colours that are used in the design. To preview the material in the course go to: http://web.arch.usyd.edu.au/~terry/DAAE2006//

DAAE2008
Innovative Building Structures
This unit of study is not available in 2011
Credit points: 6
Teacher/Coordinator: D J Gunaratnam
Session: Semester 2
Classes: 3 hours per week
Prerequisites: DESA1111 or BDES2013
Assessment: Case Study & Modelling assignments. Mode of delivery: Normal (lecture/lab/tutorial) Day

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:
(1) 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.
(2) 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.
(3) 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.

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.

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.
This unit is an Architecture Elective in the Bachelor of Design in Architecture and elective in other courses. Contact hours: 3 hours per week. Class preparation: 1 hour per week. Assessment preparation: 26 hours per semester.

**DAAE3001 Sustainable Architectural Practice**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Richard Hyde  
**Session:** Semester 1  
**Classes:** 2 x 1 hrs lectures and 1 x 1 hr tut/lab commencing week 1, concluding week 12  
**Prerequisites:** DESA2111 or DESA1023 or DESA1102  
**Assessment:**  
- Case study (40%) and Design Exercise (60%)  
- **Mode of delivery:** Normal (lecture/tut/tutorial) Day  

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. 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.

This unit is an Architecture Elective in the Bachelor of Design in Architecture and elective in other courses. Contact hours: 3 hours per week. Class preparation: 1 hour per week. Assessment preparation: 2 hours per week.

**DAAP3001 Contemporary Architecture and Theory**

This unit of study is not available in 2011

**Credit points:** 6  
**Teacher/Coordinator:** Chris Smith  
**Session:** Semester 1  
**Classes:** 3 hours per week  
**Corequisites:** DESA3001  
**Assessment:**  
- Attendance; submission of text and material engagement assignment.  
- **Mode of delivery:** Normal (lecture/tut/tutorial) Day  

Note: Department permission required for enrolment.

The unit will consider architecture as the complex assemblage of material practices and theory. Students will be introduced to some of the key lines of thought that have impacted on architectural processes of the first decade of the 21st Century and the ways in which architectural production has responded and contributed to those lines. Students will become familiar with contemporary theoretical concepts and the architectural design processes associated with those concepts. On successful completion of this unit students will have demonstrated: a familiarity of the relationship between theory and material practices; a familiarity with the concepts and architectures presented, and; an ability to respond critically to conceptual notions and material practices. The demonstration will take the form of specific material engagements and textual analysis. This unit is a Master of Architecture prerequisite in Bachelor of Design in Architecture. Contact hours: 3 hours per week. Class preparation: 1 hour per week. Assessment preparation: 26 hours per semester.

**DECO1006 Understanding Design and Cognition**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Andy Dong  
**Session:** Semester 1  
**Classes:** 1.5 hrs lecture/week, 1.5 hrs workshop/week  
**Corequisites:** DECO1004  
**Assessment:** Two written assignments (50%); final exam (25%); regular workshop assessments (25%)  
**Mode of delivery:** Normal (lecture/tut/tutorial) Day

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.

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

1. 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 DESA3002; competence in evaluating their chosen strategies utilising model studies, computation and other analytical and evaluative tools.

2. 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.

This unit is a Bachelor of Architecture prerequisite in Bachelor of Design in Architecture. Contact hours: 4 hours per week. Class preparation: 1 hour per week. Assessment preparation: 1 hour per semester.

**DeC01004**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Andy Dong  
**Session:** Semester 1  
**Classes:** 4 hours per week  
**Corequisites:** DESA3001  
**Assessment:** Assignments (one of which is integral with another assessment task in DESA3002) & examination. Failure in any single module equates to failure in the overall unit of study.  
**Mode of delivery:** Normal (lecture/tut/tutorial) Day  
Note: Department permission required for enrolment.
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.

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 need for critical examination and both objective and subjective analysis and judgement through the reports submitted. This unit is core in the Bachelor of Design Computing and elective in other programs. Student effort expected for an average student to achieve a pass level result: 3 hours per week contact hours; 1.5 hours per week class preparation; 19 hours per semester assessment preparation.

DECO1008
3D Modelling
Credit points: 6 Teacher/Coordinator: Dr Xiangyu Wang Session: Semester 2 Classes: Three hours per week Prohibitions: DECO2103 Assessment: Attendance and Participation (4%); Tutorial exercises (Mastery Tasks) (16%); Written report (30%); Final Rendered image: (50%); and Exhibition/Critique Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This unit is for BDesComp and BST students only. Others may enrol in DECO2103.

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. 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 modelling, 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.

This unit is core in the Bachelor of Design Computing. Student effort expected for an average student to achieve a pass level result: 3 hours per week contact hours; 1.5 hours per week class preparation; 19 hours per semester assessment preparation.

DECO1012
Design Programming
Credit points: 6 Teacher/Coordinator: Dr Rob Saunders Session: Semester 1 Classes: 1hr lecture/week, 2hrs tutorial/week Prohibitions: DECO2011, SCFT1001 Assessment: Tutorials and participation (10%); three programming assignments (90%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Core unit for Bachelor of Design Computing. BST students by permission. Enrolment is limited by teaching resources.

In studying this unit, students will: develop an understanding of how to conceptualise and communicate design concepts through interface and video production; be introduced to digital image representation and technology through design projects; become proficient with the elements of digital design technology including digital images, vector graphics, font, montage, photography and video; develop skills in digital imaging software such as Photoshop, and graphical layout.
software such as Illustrator; and develop experience with significant digital design issues.

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.

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

**DECO2101 Collaborative Virtual Environments**

**Credit points:** 6

**Teacher/Coordinator:** Dr Xiangyu Wang

**Session:** Semester 1

1 Class: 3 hours per week

1 Class: 3 hours per week

1 Class: 3 hours per week

Prohibitions: DECO1100 or DECO (2101 and 2102) or INFO (1000 or 1003)

Assessment: Attendance and Tutorial Exercises (20%); Concept Proposal (30%); Final Report and Design (50%)

Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Enrolments limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Bachelor of Design Computing students.

The aim of this unit is to impart to students 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 modelling environments.

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.

This unit is core for Bachelor of Design Computing and elective for other programs. Student effort expected for an average student to achieve a pass level result: Contact hours: 3 hours per week; class preparation: 1.5 hours per week; assessment preparation: 19 hours per semester.

**DECO2103 3D Modelling**

**Credit points:** 6

**Teacher/Coordinator:** Dr Martin Tomitsch

**Session:** Semester 1

2 Classes: 3 hours per week

Prohibitions: DECO1002; Assessment: Attendance and Participation: (4%); Tutorial exercises (Mastery Tasks): (16%); Written report (30%); Final Rendered image and Exhibition/Critique (50%)

Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Places in this unit are limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. Bachelor of Design Architecture students will receive preference. Not available in the Bachelor of Design Computing.

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.

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; 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 modelling, 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.

This unit is part of the Digital Architecture stream in the Bachelor of Design in Architecture. Not available in the Bachelor of Design Computing. Elective in other programs. Student effort expected for an average student to achieve a pass level result: contact hours: 3 hours per week; class preparation: 1.5 hours per week; assessment preparation: 19 hours per semester.

**DECO2200 Interaction Design Studio**

**Credit points:** 12

**Teacher/Coordinator:** Dr Martin Tomitsch

**Session:** Semester 2

2 Classes: 1 hr lecture/week, 2hr tutorial/week, 3hrs studio/week

Prohibitions: DECO1100 Prohibitions: DECO1200 Assessment: Design projects (75%); tutorial activities (15%); participation (10%)

Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Core unit for the Bachelor of Design Computing. BST students by permission. Enrolment is limited by teaching resources.
This unit introduces principles of interface and interaction design through design projects. Students will develop technical as well as methodological skills for designing and developing interactive software, web sites, products, and services. Elements of interaction design including menus, screen design, motion, animation, graphics design, and sound integration will be addressed for various media and platforms, including the Internet and mobile devices. Methods for interaction design that will be covered include requirement analysis, storyboarding, and prototyping. 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 presentation in non-linear and interactive content through the design project; knowledge of scripting and mark-up languages for enabling dynamic content and interactive designs, e.g., ActionScript, HTML, and JavaScript, through tutorial exercises; understanding of different types of user interaction, with an emphasis on traditional interfaces, but including innovative methods of interaction (as a preparation for the 3rd year Human-Computer Experience Design Studio). Contribution to program: This unit of study is core in the Bachelor of Design Computing program. It 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 and interaction design understanding. The unit develops interaction narrative, engagement, curiosity and design methods using the computer interface. It lays the groundwork for scripting interactivity using web-based and standalone technologies. The unit leads on to the subsequent Human-Computer Experience, which further pursues interaction, moving to mobile, wireless, haptic and spatial sensate interfaces.

**DECO204 Principles of AutoCAD-Revit**

Credit points: 6  
**Teacher/Coordinator:** Dr Paul Murty  
**Session:** Semester 2  
**Classes:** Initiating meeting, with self directed on-line information transfer, augmented by weekly in-lab question and answer sessions, in most weeks  
**Prohibitions:** DECA1201, DECS100, DECS118  
**Assessment:** Basic and advanced CAD tutorials (40%); Personal modeling project (60%)  
**Mode of delivery:** On-line  
**Note:** Permission required, unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students must apply directly to the Faculty of Architecture

At the completion of this unit competencies in the use of ArchiCAD and Revit object tools and functions such as Families and BIM for 3D modeling, object making and production of visual presentations, of buildings. This unit of study introduces ArchiCAD basic object tools and advanced functions such as GDL and BIM for 3D modeling, object making and presentation of visual presentations, or virtual buildings. At the completion of this unit competencies in the use of ArchiCAD software will be sufficient for students 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. Students will also have gained an ability to find and utilise on-line information, to refresh, update and extend their CAD knowledge and skills.

**DECO205 Principles of ArchiCAD**

Credit points: 6  
**Teacher/Coordinator:** Dr Paul Murty  
**Session:** Semester 1  
**Classes:** Initiating meeting, with self directed on-line information transfer, augmented by weekly in-lab question and answer sessions, in most weeks  
**Prohibitions:** DECA1201, DECS100, DECS118  
**Assessment:** Basic and advanced CAD tutorials (40%); Personal modeling project (60%)  
**Mode of delivery:** On-line  
**Note:** Permission required, unless enrolled as an undergraduate in the Faculty of Architecture or the BST. Other students must apply directly to the Faculty of Architecture

This unit aims to introduce ArchiCAD technology and skills required for computer based production of 2D drawings, 3D models and static or dynamic visualisations to assist designing, documentation and presentation of built designs, 2) introduce principles and practice of rational and economical model structuring, production and presentation, using layers, stories and objects, and 3) develop computing skills in the use of parametric object oriented modeling tools to produce accurate and convincing models. 4) develop skills of information acquisition, enquiry, formulation and production, employing on-line media, individually and in collaboration with others. ArchiCAD is an object-oriented CAD application, for documenting and creating 3D models and visualisations of buildings. This unit of study introduces ArchiCAD basic object tools and advanced functions such as GDL and BIM for 3D modeling, object making and production of visual presentations, or virtual buildings. At the completion of this unit competencies in the use of ArchiCAD software will be sufficient for students 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. Students will also have gained an ability to find and utilise on-line information, to refresh, update and extend their CAD knowledge and skills.

**DECO3003 Design Computing Research Opportunity**

Credit points: 6  
**Teacher/Coordinator:** Dr Andy Dong  
**Session:** Semester 2  
**Classes:** 1hr lecture and 2hrs tutorial per week  
**Prohibitions:** DECO(1008 or 2103) and (SOFT1001 or DECO(1012 or 2011))  
**Assessment:** Tutorials and participation (10%); concept documentation and presentation (45%); final demo (45%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Bachelor of Design Computing students.

This unit aims to teach students an understanding of the stages involved in the development of games; skills in the design, documentation and implementation of game concepts. Students will use the skills they have gained in 3D modelling and programming from the prerequisite units of study to implement demonstrations of game concepts developed in this class based around a common theme. Themes may include the telling of a particular story, the expression of an emotion, or the exploration of critical question or issue. Students will be asked to conduct background research into the theme being explored in the class, develop a game concept based on their research and present their concept in class. The objectives of the unit are to introduce the principles of game design, the development of game concepts and the production of 3D real-time gaming experiences.
At the end of the unit the student will have experience in developing research proposals, conducting research and presenting their results. Design Computing Research Opportunity offers the opportunity for a Bachelor of Design Computing 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.

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.

**DEC03005**

**Advanced Interaction Design**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Martin Tomitsch  
**Session:** Semester 1  
**Classes:** 1 hr lecture/week, 2hr tutorial/week commencing week 2  
**Prerequisites:** DESC1100 or DESC1200 or (DECO1012 or 2012)  
**Prohibitions:** DESC3142  
**Assessment:** Design project (90%); participation (10%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Enrolment numbers limited by teaching resources. If you attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Bachelor of Design Computing students.

The objectives of the unit are to develop a comprehensive understanding of interactive multimedia; to extend fundamentals learned in Interaction Design Studio (DECO1200) or Interactive Multimedia Design (DECO2102); to understand how humans interact with computers; to develop interface design that elicits engagement and interaction; and to develop an advanced knowledge of screen design principles and navigational methodologies. Students will investigate effective navigational and design strategies for engaging interface design. Programming tools used in the unit include Flash, Javascript, and Processing. Applications will be developed and deployed for different platforms, such as the iPhone. 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 mobile and contextual design will extend the understanding of interactive interface design. Students will develop further understanding of interaction design and develop strategies to apply this understanding to interactive design projects. At the conclusion of the unit students should have a well-developed understanding of interaction design demonstrated through the structure and design of an interactive multimedia project; an understanding of efficient navigational and innovative interface design eliciting user engagement and demonstrated knowledge of responsive multimedia; an understanding of technical methods to link content and external data (e.g. from sensors or online sources) to the multimedia product.

**DEC03006**

**Principles of Animation**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Andy Dong  
**Session:** Semester 1  
**Classes:** 1x1 hr lecture/week and 1x2 hr tutorial/week commencing week 2  
**Prerequisites:** DESC1003 or DESC1008 or DESC2103  
**Prohibitions:** DESC9019, DESC9141  
**Assessment:** Conceptual development (20%); fundamental techniques (30%); final project (50%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Enrolment numbers limited by teaching resources. If you attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Bachelor of Design Computing students.

The aims of this unit of study are to introduce the fundamental principles of the animation process, to develop an understanding of the process involved in developing character, text and motion graphics-based animation, and to develop an understanding of the integration between 2D artwork and 3D composition. Students will develop an understanding of the application of animation in the production of film, television, Web, electronic art, and other platforms that can show visual content. Students will acquire basic animation skills, transfer traditional animation principles to computer graphics, and develop the skills to create an animated sequence and the critical vocabulary to describe animation. Basic knowledge will be related to foundational technical skills in industry standard software for animation and aims to serve as an introduction to further animation learning. At the conclusion of this unit a student should have the ability to perform various animated techniques to be incorporated into a variety of platforms.

**DEC03008**

**Design Computing Prep Honours Research**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Andy Dong  
**Session:** Semester 1  
**Classes:** Two hour seminar per week  
**Prerequisites:** 72 credit points and minimum WAM of 70  
**Assessment:** Research area summary report (40%); research proposal report (60%);  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment.

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

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 one of the research methods used in design computing.

At the conclusion of the unit a preliminary research proposal will demonstrate the student's ability to identify a research area and a preliminary research plan.

**DEC03100**

**Information Visualisation Design Studio**

**Credit points:** 12  
**Teacher/Coordinator:** Dr Andrew Vande Moere  
**Session:** Semester 1  
**Classes:** 1x1 hr lecture/week, 1x2 hr tutorial/week and 1x3 hr studio/week commencing week 2  
**Prerequisites:** DECO1100 and 1200 or DECO(1100 and 2200) or DECO(2100 and 2102) or DECO(2012 and 2013) or DECO(1013 and 2013)  
**Prohibitions:** DECO3001  
**Assessment:** Group design project(s) (40%), individual design project(s) (30%), individual report (15%), tutorial exercises and class participation (15%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Core unit for Bachelor of Design Computing. BST students by permission. Enrolment is limited by teaching resources.

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 and evaluation; interdisciplinary influences; server-side programming and client-side scripting.

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.

This unit is core unit for Bachelor of Design Computing students only. Student effort expected for an average student to achieve a pass level result: contact hours: 12 hours per week; class preparation: 9 hours per week; assessment preparation: 39 hours per semester.

**DEC03200**

**Human-Computer Experience Des Stdo**

**Credit points:** 12  
**Teacher/Coordinator:** Dr Andy Dong  
**Session:** Semester 2  
**Classes:** 1 hr lecture, 2hrs tutorial, 3hrs studio/week  
**Prerequisites:** DECO3010 or (DECO2101 and DECO2102 and (DECO(1012 or 2011 or SOFT1001)))  
**Prohibitions:** DECO3002  
**Assessment:** Final project (80%);
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 artefacts 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 objects that have embedded information content, computation, and intelligence. The students will explore through design the possibility of design computing in which humans and computing devices co-create humanistic experiences.

On the successful completion of this unit of study, students will have demonstrated an understanding of user-centered design (UCD) in the context of new product development, and through this process, realise an operational prototype of an interactive computing product. 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 embedded information content, content, and intelligence. The unit of study also reinforces the students’ experiences in designing through reflection-in-action of the design process.

This unit is core for the Bachelor of Design Computing.

**DECO3441**

**Design Computing Independent Study A**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** Semester 1, Semester 2  
**Classes:** Weekly meetings by arrangement.  
**Prerequisites:** 48 credit points and WAM of at least 70.  
**Assessment:** Report or equivalent (100%).  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Computing topic; to develop skills in independent study; and to develop advanced report writing skills. 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. The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

**DECO3442**

**Design Computing Independent Study B**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** Semester 1, Semester 2  
**Classes:** Weekly meetings by arrangement.  
**Prerequisites:** 48 credit points and WAM of at least 70.  
**Assessment:** Report or equivalent (100%).  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Computing topic; to develop skills in independent study; and to develop advanced report writing skills. 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. The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

**DECO3443**

**Design Computing Independent Study C**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** Semester 1, Semester 2  
**Classes:** Weekly meetings by arrangement.  
**Prerequisites:** 48 credit points and WAM of at least 70.  
**Assessment:** Report or equivalent (100%).  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Computing topic; to develop skills in independent study; and to develop advanced report writing skills. 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. The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

**DECO3444**

**Design Computing Independent Study D**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** Semester 1, Semester 2  
**Classes:** Weekly meetings by arrangement.  
**Prerequisites:** 48 credit points and WAM of at least 70.  
**Assessment:** Report or equivalent (100%).  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Computing topic; to develop skills in independent study; and to develop advanced report writing skills. 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. The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

**DECO3551**

**Design Computing General Elective A**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** Intensive, Semester 1, Semester 2  
**Prerequisites:** 48 credit points.  
**Assessment:** Assignments as determined by Unit Coordinator (100%).  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing 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. The topic for this elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate).

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

**DECO3552**

**Design Computing General Elective B**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** Intensive, Semester 1, Semester 2  
**Prerequisites:** 48 credit points.  
**Assessment:** Assignments as determined by Unit Coordinator (100%).  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing 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. The topic for this elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate).

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing 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. The topic for this
elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate).

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

**DECO3553**

**Design Computing General Elective C**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Chris Smith  
**Session:** S1 Intensive, S2 Intensive, Semester 1, Semester 2  
**Prerequisites:** 48 credit points.  
**Assessment:** Assignments as determined by Unit Coordinator (100%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment.  
**Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing 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 speciality. 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 Associate Dean (Undergraduate).

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

**DECO3554**

**Design Computing General Elective D**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Chris Smith  
**Session:** S1 Intensive, S2 Intensive, Semester 1, Semester 2  
**Prerequisites:** 48 credit points.  
**Assessment:** Assignments as determined by Unit Coordinator (100%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment.  
**Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Computing 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 speciality. 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 Associate Dean (Undergraduate).

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

**DECO4001**

**Design Computing Honours Research A**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Andy Dong  
**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.  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** Department permission required for enrolment.

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. The honours degree requires full time study over two semesters (DECO4001 and DECO4002 and then DECO4003 and DECO4004). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which DECO4004 Design Computing Honours Research D is taken.

**DECO4002**

**Design Computing Honours Research B**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Andy Dong  
**Session:** Semester 1, Semester 2  
**Prerequisites:** DECO4001  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  

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. The honours degree requires full time study over two semesters (DECO4001 and DECO4002 and then DECO4003 and DECO4004). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which DECO4004 Design Computing Honours Research D is taken.

**DECO4003**

**Design Computing Honours Research C**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Andy Dong  
**Session:** Semester 1, Semester 2  
**Prerequisites:** DECO4002  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  

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. The honours degree requires full time study over two semesters (DECO4001 and DECO4002 and then DECO4003 and DECO4004). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which DECO4004 Design Computing Honours Research D is taken.

**DECO4004**

**Design Computing Honours Research D**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Andy Dong  
**Session:** Semester 1, Semester 2  
**Prerequisites:** DECO4003  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  

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. The honours degree requires full time study over two semesters (DECO4001 and DECO4002 and then DECO4003 and DECO4004). In special cases the Dean may approve a part time enrolment over four semesters. 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.

The dissertation should be submitted by the end of the first week of the formal examination period in the semester in which DECO4004 Design Computing Honours Research D is taken.

**DESA1004**

**Designing with Surfaces and Light**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Bill Martens  
**Session:** Semester 2, Summer Early Classes  
**Mode of delivery:** On-line delivery through WebCT  
**Assessment:** Two assignments (2x50%)  

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

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 in the environment. 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.

The unit deals with the following: the basic properties of light and the way these properties affect 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 perception 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.

Participants in the unit will 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. For students in the Faculty of Architecture this unit 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 unit 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.

To preview the material in the course go to: http://web.arch.usyd.edu.au/~terry/DESA1004/sl_introduction.html

DESA3441 Design Architecture Independent Study A

Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: Semester 1, Semester 2 Classes: Weekly meetings by arrangement. Prerequisites: 48 credit points and WAM of at least 70. Assessment: Report or equivalent (100%). Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Architecture topic; to develop skills in independent study; and to develop advanced report writing skills. 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.

The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

DESA3442 Design Architecture Independent Study B

Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: Semester 1, Semester 2 Classes: Weekly meetings by arrangement. Prerequisites: 48 credit points and WAM of at least 70. Assessment: Report or equivalent (100%). Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Architecture topic; to develop skills in independent study; and to develop advanced report writing skills. 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.

The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

DESA3443 Design Architecture Independent Study C

Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: Semester 1, Semester 2 Classes: Weekly meetings by arrangement. Prerequisites: 48 credit points and WAM of at least 70. Assessment: Report or equivalent (100%). Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Architecture topic; to develop skills in independent study; and to develop advanced report writing skills. 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.

The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

DESA3444 Design Architecture Independent Study D

Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: Semester 1, Semester 2 Classes: Weekly meetings by arrangement. Prerequisites: 48 credit points and WAM of at least 70. Assessment: Report or equivalent (100%). Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor and program coordinator with your request to enrol.

This unit provides an opportunity to high achieving students to develop an interest in a specific Design Architecture topic; to develop skills in independent study; and to develop advanced report writing skills. 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.

The outcome should be a reflective report on a selected topic demonstrating mastery of the topic.

DESA3551 Design Architecture General Elective A

Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Prerequisites: 48 credit points. Assessment: Assignments as determined by Unit Coordinator (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture 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. The topic for this elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate). Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.

DESA3552 Design Architecture General Elective B

Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Prerequisites: 48 credit points. Assessment: Assignments as determined by Unit Coordinator (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture 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. The topic for this elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate). Students will develop an understanding of a special topic through reports, projects, and tutorial exercises.
DES A3553
Design Architecture General Elective C
Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Prerequisites: 48 credit points. Assessment: Assignments as determined by Unit Coordinator (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture 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. The topic for this elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate).

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

DES A3554
Design Architecture General Elective D
Credit points: 6 Teacher/Coordinator: Assoc Prof Chris Smith Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Prerequisites: 48 credit points. Assessment: Assignments as determined by Unit Coordinator (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by the elective supervisor, with your request to enrol.

This elective allows a group of students to pursue a topic proposed by a member of academic staff in a formal learning environment. This unit of study is available to a minimum of 10 students to engage in a topic related to Design Architecture 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. The topic for this elective is proposed by a member of academic staff and approved by the Associate Dean (Undergraduate).

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

DES P1001
Introductory Urban Design and Planning
Credit points: 6 Teacher/Coordinator: Mr Martin Payne Session: Semester 2 Classes: 2 hours per week Assessment: Assessment is based on a workbook, which will present background studies, a strategic analysis and a reflective essay in response to a planning and design problem, besides a review of literature. Literature review (40%); background studies (20%); strategic analysis (20%); proposal (20%). Mode of delivery: Normal (lecture/lab/tutorial) Day

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. 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.

This is an elective unit, which introduces the Urban Design and Planning stream in the Bachelor of Design in Architecture. 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 hours per week; class preparation: 2 hours per week; assessment preparation: 26 hours per semester.

DES P2001
Planning for the Public Domain
Credit points: 6 Teacher/Coordinator: Mr Martin Payne Session: Semester 1 Classes: lectures 2 hours per week Assessment: workbook presenting studies, reviewing materials, envisaging work to be done, demonstrating critical thinking, and presenting proposals (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day

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.

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 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.

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

Student effort expected: contact hours: 2 hours per week; class preparation: 2 hours per week; assessment preparation: 30 hours per semester.

DES P2002
Planning for the Built Environment
Credit points: 6 Teacher/Coordinator: Mr Martin Payne Session: Semester 2 Classes: 2 hours per week Assessment: workbook presenting studies, reviewing materials, envisaging work to be done, demonstrating critical thinking and presenting proposals (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day

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.

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.

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

Student effort expected: contact hours: 2 hours per week; class preparation: 2 hours per week; assessment preparation: 30 hours per semester.
INFO2120
Database Systems 1

Credit points: 6  Session: Semester 1  Classes: (Lec 3hrs & Prac 2hrs) per week

Prohibitions: INFO2820, INFO2005, INFO2905  Assumed knowledge: Some exposure to programming and some familiarity with data model concepts such as taught in INFO1103 or INFO1003 or INF1000 or INFO1903

Assessment: Assignment (30%), Quiz (10%), Final Exam (60%)  Mode of delivery: Normal (lecture/lab/tutorial) Day

The proper management of data is essential for all data-centric applications and for effective decision making within organizations. This unit of study will introduce the basic concepts of database designs at the conceptual, logical and physical levels. Particular emphasis will be placed on introducing integrity constraints and the concept of data normalization which prevents data from being corrupted or duplicated in different parts of the database. This in turn helps in the data remaining consistent during its lifetime. Once a database design is in place, the emphasis shifts towards querying the data in order to extract useful information. The unit will introduce different query languages with a particular emphasis on SQL, which is industry standard. Other topics covered will include the important concept of transaction management, application development with a backend database, an overview of data warehousing and online analytic processing, and the use of XML as a data integration language.
Graduate coursework degrees

Overview
This section details the graduate coursework degrees available within the Faculty of Architecture, Design and Planning, with the exception of the Master of Architecture professional degree, which is discussed in the next section.

Courses
The following postgraduate coursework degrees are offered by the Faculty of Architecture, Design and Planning at the graduate certificate, graduate diploma and master level:

- Design Science
- Facilities Management
- Heritage Conservation
- Interaction Design and Electronic Arts
- 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 expertise in that area. The units of study are listed in Table G, the table of graduate units. The following degrees offer streams:

**Design Science**
- Audio and Acoustics
- Building (last admission semester 2 2008)
- Building Services
- Facilities Management (secondary only)
- Illumination Design
- Sustainable Design
- Combination of any two Design Science streams

**Master of Urban Design**
- Available without specialisation
- Architectural and Urban Design
- Urban Design and Planning

**Master of Urban and Regional Planning**
- Available without specialisation
- Heritage Conservation

Admission
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’s level.

Articulation from graduate certificate or diploma to master’s
Students are encouraged to enrol into the degree and stream that they intend to complete. If you wish to complete a master’s degree you should apply for the master’s program. However, the postgraduate degrees are articulated, allowing easy progression (or regression) from the graduate certificate to the graduate diploma or master’s 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’s degree but decides not to continue may be able to graduate with a graduate diploma or graduate certificate.

**Master’s degrees requiring 72 and 96 credit points**
Most of the master’s degrees listed here require 72 credit points, or 1.5 years of full-time study. However, the following master’s degrees require 96 credit points, or two years of full-time study, and allow the combination of two programs:

- Master of Urban Design (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’s can upgrade to an appropriate 96 credit point master’s, and vice-versa. However, students intending to complete a 96 credit point master’s degree are advised to plan this carefully from the beginning of their candidature to ensure they can complete all requirements in a timely fashion.

Graduation
Students who choose to articulate their program will only graduate with the highest qualification they achieve. Candidates should note that the Master of Urban Design with two streams and Master of Design Science with two streams leads to the award of one masters degree only.

Degrees and specialisations

**Design Science**

**Audio and Acoustics**
The Audio and Acoustics program is unique in Australia and one of only a few comparable programs in the world. The program offers a balance of studio-based production subjects and theoretical and investigative subjects in acoustics and technical audio. It aims to extend students’ existing skills to a high level of proficiency and professionalism in the various disciplines that contribute to the audio and acoustics fields. 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.

The sound studios consist of a recording studio and a 5.1 format production studio. The acoustical laboratory has an anechoic room and a reverberant room, and is equipped with state-of-the-art acoustical measurement and analysis tools.

Students in the Audio and Acoustics program have 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
The Facilities Management program may be completed as a Graduate realisation. You will be encouraged to direct your learning to your organisation, and the way that facilities contribute towards their management information as well as the technical aspects of buildings. A facilities manager requires an understanding of business finance and their day-to-day operating costs. This program recognises that through appropriate maintenance, as well as obtaining value from in fulfilling their core business objectives, retaining their capital value responsibility of ensuring that their employers' premises assist them creating the buildings in the first place. Facility managers have the incurs recurrent costs for rent, rates, cleaning, energy consumption, and it explores environmentally sustainable architecture. 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 Table G. 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, 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.

Facilities Management
The Facilities Management stream is available in the Master of Design Science as a secondary stream. See the Facilities Management entry below for details of this program which is offered primarily under its own named award courses.

Illumination Design
This is 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 students 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 Table 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, 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.

Facilities Management
Every organisation uses buildings of some sort and their occupation incurs recurrent costs for rent, rates, cleaning, energy consumption, water and security, 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 aspects of buildings. 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 a Graduate Certificate, Graduate Diploma or Master of Facilities Management or as a secondary stream in the Master of Design Science (Master of Design Science (primary stream and Facilities Management)).

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.

Interaction Design and Electronic Arts
The Interaction Design and Electronic Arts (IDEA) program is the first of its kind in Australia to prepare students in the skills and knowledge of interaction possibilities offered by modern computing technologies. As technology becomes a greater part of our daily lives, there is a growing need for products, systems and devices that are functional, pleasurable and innovative to fit the needs of the user. The IDEA degree seeks to teach students the possibilities of such technologies and new applications and explore their relation to a number of emerging fields such as biotechnology, sustainability, social networking, global health and cultural diversity.

The course focuses on four distinct areas:

- Installation – experimental, responsive environments for performance and direct engagement.
- Device – smart artefacts and wearable electronic fashion that sense and inform their wearers; computing embedded in smart everyday objects.
- Screen – from small, mobile devices to architectural media facades.
- Virtual – online immersive cyber worlds and games.

Students will explore how art, technology and culture can be merged in inspiring forms of interactive media and electronic art. Each design studio unit endeavours to develop the student's conceptual design abilities as well as augments one's technical skills, within the framework of a highly creative, research-based and human-centred design process. The program aims to collaborate with local industry partners in interaction design, allowing students to experience and engage with commercial clients or engage in competitive internship opportunities.

Urban Design
Urban design emerged as a distinct field in Australia about 20 years ago in response to a need for better design skills at urban scales: streets, street blocks, town centres, city districts, new suburbs, cross-city infrastructure. Since that time, urban design has expanded enormously. Today, design professionals with good urban design knowledge and skills are much sought after by private consulting firms, development organisations and local and state governments – where they are required to prepare and evaluate urban design policies, strategies, frameworks, guidelines, concepts, master plans and programs, as well as be involved in the more detailed design and management of urban spaces.

Urban design knowledge and skills also assist in designing for specific sites by providing a better appreciation of urban structure and context. They are crucial for good development evaluation, and enhance perspectives on urban conservation: and there is a small but growing demand for urban design educators and media commentators. The program is arranged to develop understanding and abilities for all of these roles. At its core are studio projects that address emerging design issues, plus supporting units that cover essential morphological, ecological, cultural and other dimensions of urbanism.

Graduates of the program occupy important urban design positions in all of the above-mentioned employment sectors in cities across Asia, Europe, North and South America, Australia and New Zealand.

60
Admission requirements
To apply, you should hold a professional degree in architecture, landscape architecture, urban planning or a closely related design area and submit a portfolio of work with your application. Your portfolio should show several examples of design and design-related work completed as part of your university studies and/or samples of work from professional or equivalent experience (preferably both). Further, your particular role in producing each item of submitted work should be made clear. The portfolio must be on paper only, consist of approximately 10 A4 or A3 sheets, and include drawings and other relevant items of illustration such as photographs of models, with supporting explanation.

Master of Urban Design (Architectural and Urban Design)
This Master of Urban Design program develops specialist knowledge and skills in both urban and architectural design. It compresses the essentials of two studio-based graduate areas into two years (four semesters) of full-time study. This 96 credit point degree combining expertise in urban design and enhanced architectural design abilities is unique, and may hold special appeal to international students.

Admission requirements
To apply, you should hold a professional degree in architecture and submit a folio of your work with your application. Your portfolio should show several examples of design and design-related work completed as part of your university studies and/or samples of work from professional or equivalent experience (preferably both). Further, your particular role in producing each item of submitted work should be made clear. The portfolio must be on paper only, consist of approximately 10 A4 or A3 sheets, and include drawings and other relevant items of illustration such as photographs of models, with supporting explanation.

Master of Urban Design (Urban Design and Planning)
This Master of Urban Design program develops specialist knowledge and skills in both urban design and planning. It compresses the essentials of two graduate streams into two years (four semesters) of full time study. This 96 credit point degree combining expertise in urban design, and urban and regional planning and policy is unique, and may hold special appeal to international students. (For more details the two areas, see information on the Master of Urban Design, and Master of Urban and Regional Planning programs.)

Admission requirements
To apply, you should hold a professional degree in architecture, landscape architecture, urban planning or a closely related design area and submit a portfolio of your with your application. Your portfolio should show several examples of design and design-related work completed as part of your university studies and/or samples of work from professional or equivalent experience (preferably both). Further, your particular role in producing each item of submitted work should be made clear. The portfolio must be on paper only, consist of approximately 10 A4 or A3 sheets, and include drawings and other relevant items of illustration such as photographs of models, with supporting explanation.

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). Master's graduates are eligible, subject to professional experience requirements, for corporate membership of the PIA.

Degree requirements summary
The following summary is subordinate to the full set of resolutions of the faculty. 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. A course planner can be found on the inside back cover of this book to assist you with planning your studies.

Master's 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 Urban Design (Architectural and Urban Design) and Master of Urban Design (Urban Design and Planning) 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 '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, including those listed as core or optional for other programs. There is also a section at the start of the table listing miscellaneous 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.

Core units completed in excess of the minimum requirements may count as optional or elective units. Optional units completed in excess of the minimum requirements may count as electives.

Study in other faculties
Students in the graduate diploma or master's 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.
## Table of Requirements

<table>
<thead>
<tr>
<th>Course/stream</th>
<th>Graduate Certificate</th>
<th>Graduate Diploma</th>
<th>Master</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min. Core</td>
<td>Min. Options</td>
<td>Max. Elective</td>
</tr>
<tr>
<td>Audio and Acoustics</td>
<td>18</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Building*</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Building Services</td>
<td>18</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Facilities Management*</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Illumination Design</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sustainable Design</td>
<td>18</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Certificate, Diploma, Master of Facilities Management</td>
<td>18</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Certificate, Diploma, Master of Heritage Conservation</td>
<td>18</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Certificate, Diploma, Master of Interaction Design and Electronic Arts</td>
<td>18</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Certificate, Diploma, Masters in Urban Design</td>
<td>18</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Architectural and Urban Design</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Urban Design and Planning</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Certificate, Diploma, Masters in Urban and Regional Planning</td>
<td>18</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Heritage Conservation</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>


## Table G - Table of graduate units

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH9031 Research Report</td>
<td>12</td>
<td>Note: 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.</td>
<td>Semester 1, Semester 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9061 East Asian Arch and Urbanism (Classical)</td>
<td>6</td>
<td>N DESA2203, ARCH6202</td>
<td>This unit is offered in odd numbered years only.</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9064 East Asian Arch &amp; Urbanism (Modern) This unit of study is not available in 2011</td>
<td>6</td>
<td>N ARCH9054</td>
<td>This unit is offered in even numbered years only.</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9073 Architecture Globalisation Urbanisation</td>
<td>6</td>
<td></td>
<td></td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESA9001 Graduate Art Studio (Graphic Design)</td>
<td>6</td>
<td>N AWS2016</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1, Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESA9003 Graduate Art Studio (Photography)</td>
<td>6</td>
<td>N AWS2023</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.</td>
<td>Semester 1, Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESA9004 Art: Materials, Process and Contexts This unit of study is not available in 2011</td>
<td>6</td>
<td></td>
<td></td>
<td>S2 Intensive</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
Unit of study | Credit points | A: Assumed knowledge | P: Prerequisites | C: Corequisites | N: Prohibition | Session
---|---|---|---|---|---|---
DESA9005 Graduate Art Workshop | 6 | Note: Department permission required for enrolment | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | S1 Intensive Semester 1 Semester 2
DESA9006 Ceramics 2 | 6 | P AWS2010 or AWS2011 or equivalent | N AWS2012 | Enrolment numbers limited by teaching resources. If your attempt to enrol is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1
DESA9008 Object Design | 6 | N AWS2020 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1 Semester 2
DESA9009 Public Art | 6 | N AWS2021 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1
DESA9010 Painting | 6 | N AWS2022 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1 Semester 2
DESA9011 Photography 2 | 6 | P AWS2023 or DESA903 | N AWS2024 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1 Semester 2
DESA9012 Screen Printing on Paper | 6 | N AWS2026 | Note: Department permission required for enrolment | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | S1 Intensive
DESA9013 Sculpture | 6 | N AWS2027 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1 Semester 2
DESA9014 Ceramics (Handbuilding) | 6 | N AWS2010 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 1
DESA9015 Site Specific Art | 6 | Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. | | | Semester 2
DESC9073 Computer Simulations in Buildings 1 | 6 | A Undergraduate Architecture, Design Computing or Engineering degree | | | | Semester 1
DESC9075 Computer Simulations in Buildings 2 | 6 | A Undergraduate Architecture, Design Computing or Engineering degree | | | | Semester 2
DESC9193 History of Sustainable Building Design | 6 | A Sufficient coursework to undertake guided professional work | Note: Department permission required for enrolment | Masters students only. Graduate Diploma students with permission of the Program Coordinator Credit will not be granted for this unit of study. | | | Semester 2
ARCH9045 Dissertation 1 | 12 | P 48 credit points and a WAM of at least 75 | C ARCH9036 | ARCH9031, ARCH9060, PLAN9010, PLAN9011, PLAN9018 | Note: Department permission required for enrolment Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. | | | S1 Intensive S2 Intensive Semester 1 Semester 2
ARCH9046 Dissertation 2 | 12 | C ARCH9045 | | | | | | Semester 1 Semester 2

General elective units

ARCH9039 General Elective 1 | 6 | Note: Department permission required for enrolment | Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. | | | S1 Intensive S2 Intensive Semester 1 Semester 2
ARCH9040 General Elective 2 | 6 | Note: Department permission required for enrolment | Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. | | | S1 Intensive S2 Intensive Semester 1 Semester 2
ARCH9041 General Elective 3 | 4 | Note: Department permission required for enrolment | Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. | | | S1 Intensive S2 Intensive Semester 1 Semester 2
ARCH9042 General Elective 4 | 4 | Note: 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

Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.
## Graduate coursework degrees

### Unit of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH9043 General Elective 5</td>
<td>2</td>
<td>Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.</td>
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<td>S1 Intensive</td>
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<tr>
<td>ARCH9044 General Elective 6</td>
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<td>Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.</td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9058 General Elective 7</td>
<td>6</td>
<td>Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.</td>
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<td></td>
<td></td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>ARCH9059 General Elective 8</td>
<td>6</td>
<td>Note: Department permission required for enrolment. Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.</td>
<td></td>
<td></td>
<td></td>
<td>S1 Intensive</td>
</tr>
</tbody>
</table>

### Research student unit

This unit is primarily intended for students in research degrees (PhD, MPhil). Other students are welcome but should seek advice prior to enrolment.

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCF9001 Modes of Inquiry: Research &amp; Scholarship</td>
<td>6</td>
<td>Permission required unless enrolled in a research degree. This unit is a probationary requirement for all MPhil and PhD students in the Faculty of Architecture, Design and Planning.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
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</table>

## Certificate, Diploma and Master of Design Science

### Audio and Acoustics Stream

#### Core units

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC9011 Audio Production</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DESC9115 Digital Audio Systems</td>
<td>6</td>
<td>Enrollment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please contact the Faculty of Architecture Student Administration Centre.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DESC9117 Sound Design for New Media</td>
<td>6</td>
<td>Enrollment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please contact the Faculty of Architecture Student Administration Centre. First preference to students in the Audio or Digital Media streams.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
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<tr>
<td>DESC9138 Architectural and Audio Acoustics</td>
<td>6</td>
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#### Optional units

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<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC9090 Audio Systems and Measurement</td>
<td>6</td>
<td>A DESC9138</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DESC9116 Loudspeaker Design</td>
<td>6</td>
<td>Enrollment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Audio and Acoustics students.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DESC9133 Architectural Acoustics Practice</td>
<td>6</td>
<td>A DESC9138</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DESC9134 Audio and Acoustics Seminar</td>
<td>6</td>
<td>A DESC9138 and DESC9011</td>
<td>DESC9090 or DESC9133</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DESC9135 Digital Audio Production with ProTools</td>
<td>6</td>
<td>Enrollment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td></td>
<td></td>
<td></td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>DESC9136 Music Technologies</td>
<td>6</td>
<td>Enrollment numbers limited by teaching resources. First preference to students in the Audio stream. If your attempt to enrol online is unsuccessful please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DESC9137 Spatial Audio</td>
<td>6</td>
<td>A DESC9138 and DESC9011</td>
<td>Enrollment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DESC9153 Graduate Internship</td>
<td>6</td>
<td>A Sufficient coursework to undertake guided professional work. Note: Department permission required for enrolment. Masters students only. Graduate Diploma students with permission of the Program Coordinator. Credit will not be granted for this unit of study.</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>DESC9191 Building Acoustics and Noise Control</td>
<td>6</td>
<td>A Undergraduate architecture or engineering degree.</td>
<td></td>
<td></td>
<td></td>
<td>S1 Late Int</td>
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</tbody>
</table>

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# Building Stream

Last admission Semester 2, 2008.

## Core units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>DESC9014</td>
<td>Building Construction Technology</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9074</td>
<td>Project Management</td>
<td>6</td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>DESC9145</td>
<td>Sustaining the Built Environment</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9151</td>
<td>Introduction to Building Services</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9185</td>
<td>Structural Synthesis Models</td>
<td>6</td>
<td>Semester 1</td>
</tr>
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</table>

### Note:
- Department permission required for enrolment.
- First preference to Sustainable Design students.
- If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.
- Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. Permission required in Semester One unless enrolled in Urban and Regional Planning.

## Environmental Design and Planning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<th>Session</th>
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</thead>
<tbody>
<tr>
<td>PLAN9051</td>
<td>Planning Procedures</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
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</table>

### Note:
- Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

# Building Services Stream

## Core units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC9014</td>
<td>Building Construction Technology</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9151</td>
<td>Introduction to Building Services</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9040</td>
<td>Electrical Services</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>DESC9049</td>
<td>Financial Decision Making</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>DESC9067</td>
<td>Mechanical Services</td>
<td>6</td>
<td>S2 Late Int</td>
</tr>
<tr>
<td>DESC9192</td>
<td>Energy Code Compliance in Buildings</td>
<td>6</td>
<td>S2 Late Int</td>
</tr>
<tr>
<td>DESC9115</td>
<td>Building Energy Analysis</td>
<td>6</td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>DESC9111</td>
<td>Energy Management in Buildings</td>
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### Note:
- Masters candidates must complete this unit in their final semester.

## Optional units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>DESC9047</td>
<td>Strategic Facility Management</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9146</td>
<td>Climate, Comfort and Sustainable Design</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>DESC9166</td>
<td>Photo &amp; Colorimetric Concepts &amp; Mensurtn</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9167</td>
<td>Vision and Visual Perception</td>
<td>6</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>DESC9191</td>
<td>Building Acoustics and Noise Control</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>DESC9074</td>
<td>Project Management</td>
<td>6</td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>DESC9081</td>
<td>Air-Conditioning Design (This unit is not available in 2011)</td>
<td>6</td>
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</tr>
<tr>
<td>DESC9084</td>
<td>Operational Facility Management</td>
<td>6</td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>DESC9050</td>
<td>Fire Protection Services (This unit is not available in 2011)</td>
<td>6</td>
<td>S2 Intensive</td>
</tr>
</tbody>
</table>

### Notes:
- Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.
- Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. Permission required in Semester One unless enrolled in Urban and Regional Planning.
- Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.
- This unit of study is offered in odd numbered years only.
- This unit of study is offered in even numbered years only.

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**Graduate coursework degrees**

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### Sustainable Building Design Practice
- **Credit points**: 6
- **Assumed knowledge**: Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.
- **Prerequisites**: P: DESC9072 or DESC9166
- **Corequisites**: N DESC9063
- **Session**: S2 Intensive

### Light Sources and Luminaires
- **Credit points**: 6
- **Assumed knowledge**: This unit of study is offered in odd numbered years only.
- **Prerequisites**: P DESC9085 or DESC9167
- **Corequisites**: N DESC9086
- **Session**: S2 Intensive

### The Visual Field and Human Factors
- **Credit points**: 6
- **Assumed knowledge**: This unit of study is offered in odd numbered years only.
- **Prerequisites**: P DESC9072 or DESC9166
- **Corequisites**: N DESC9063
- **Session**: S2 Intensive

### Illumination Design Stream
#### Core units
- **DESC9165 Lighting Design**
  - **Credit points**: 12
  - **Assumed knowledge**: Students with the relevant building services background may apply for a waiver.
  - **Prerequisites**: P: DESC9064
  - **Corequisites**: Note: Department permission required for enrolment
  - **Session**: S1 Intensive

- **DESC9166 Photo & Colorimetric Concepts & Mensuration**
  - **Credit points**: 6
  - **Assumed knowledge**: This unit of study is offered in odd numbered years only.
  - **Prerequisites**: P DESC9072
  - **Corequisites**: N DESC9063
  - **Session**: S1 Intensive

- **DESC9167 Vision and Visual Perception**
  - **Credit points**: 6
  - **Assumed knowledge**: This unit of study is offered in odd numbered years only.
  - **Prerequisites**: P DESC9085
  - **Corequisites**: N DESC9106
  - **Session**: S1 Late Int

- **DESC9168 Daylight in Buildings**
  - **Credit points**: 6
  - **Assumed knowledge**: This unit of study is offered in odd numbered years only.
  - **Prerequisites**: P DESC9085 or DESC9167
  - **Corequisites**: N DESC9086
  - **Session**: S2 Intensive

- **DESC9164 Light Sources and Luminaires**
  - **Credit points**: 6
  - **Assumed knowledge**: This unit of study is offered in odd numbered years only.
  - **Prerequisites**: P DESC9072 or DESC9166
  - **Corequisites**: N DESC9063
  - **Session**: S2 Intensive

#### Optional units
- **DESC9151 Introduction to Building Services**
  - **Credit points**: 6
  - **Assumed knowledge**: Students with the relevant building services background may apply for a waiver.
  - **Prerequisites**: A Lighting design fundamentals
  - **Corequisites**: P 24 credit points
  - **Session**: S1 Intensive

- **DESC9152 Lighting Design Software**
  - **Credit points**: 6
  - **Assumed knowledge**: This unit of study is offered in even numbered years only.
  - **Prerequisites**: A Lighting design fundamentals
  - **Corequisites**: P 24 credit points
  - **Session**: S1 Intensive

- **DESC9040 Electrical Services**
  - **Credit points**: 6
  - **Session**: S1 Late Int

- **DESC9049 Financial Decision Making**
  - **Credit points**: 6
  - **Session**: S1 Late Int

- **DESC9160 Lighting Photography**
  - **Credit points**: 6
  - **Assumed knowledge**: This unit of study is offered in odd numbered years only. Available to Graduate Diploma and Masters students only.
  - **Prerequisites**: A Fundamentals of lighting.
  - **Session**: S1 Late Int

- **DESC9153 Graduation Internship**
  - **Credit points**: 6
  - **Assumed knowledge**: A Sufficient coursework to undertake guided professional work
  - **Prerequisites**: Note: Department permission required for enrolment
  - **Corequisites**: Masters students only Graduate Diploma students with permission of the Program Coordinator.
  - **Session**: Semester 1 Semester 2

### Sustainable Design Stream
#### Core units
- **DESC9145 Sustaining the Built Environment**
  - **Credit points**: 6
  - **Assumed knowledge**: Note: Department permission required for enrolment
  - **Corequisites**: Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.
  - **Session**: S1 Intensive

- **DESC9146 Climate, Comfort and Sustainable Design**
  - **Credit points**: 6
  - **Assumed knowledge**: Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.
  - **Session**: S1 Late Int
### Unit of study

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC9147 Sustainable Building Design Principles</td>
<td>6</td>
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<td>Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>DESC9148 Sustainable Building Design Practice</td>
<td>6</td>
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<td>Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.</td>
<td>S2 Intensive</td>
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</table>

### Optional units

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC9151 Introduction to Building Services</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td>Students with the relevant building services background may apply for a waiver.</td>
<td>S1 Intensive</td>
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<tr>
<td>DESC9165 Lighting Design</td>
<td>12</td>
<td>N DESC9064</td>
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<td>Note: Department permission required for enrolment. This unit of study is offered in even numbered years only.</td>
<td>S1 Intensive</td>
</tr>
<tr>
<td>MARC6101 Performance Based Modelling in Design</td>
<td>6</td>
<td>C One of MARC4001, MARC4002, MARC4003, MARC5001 or MARC5201</td>
<td></td>
<td></td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>DESC9169 Daylight in Buildings</td>
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<td>N DESC9106</td>
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<td>S1 Late Int</td>
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<tr>
<td>DESC9193 History of Sustainable Building Design</td>
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<tr>
<td>DESC9015 Building Energy Analysis</td>
<td>6</td>
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<tr>
<td>DESC9111 Energy Management in Buildings</td>
<td>6</td>
<td>Masters candidates must complete this unit in their final semester.</td>
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<td>S1 Intensive S2 Intensive</td>
</tr>
<tr>
<td>PLAN9048 Environmental Design and Planning</td>
<td>6</td>
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<tr>
<td>DESC9150 Sustainability Research Project</td>
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### Recommended Electives

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<th>Unit of study</th>
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<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>DESC9073 Computer Simulations in Buildings 1</td>
<td>6</td>
<td>A Undergraduate Architecture, Design Computing or Engineering degree</td>
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<tr>
<td>DESC9075 Computer Simulations in Buildings 2</td>
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### Certificate, Diploma and Master of Facilities Management

<table>
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<th>Credit points</th>
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<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>DESC9047 Strategic Facility Management</td>
<td>6</td>
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<td>S1 Intensive</td>
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<tr>
<td>DESC9049 Financial Decision Making</td>
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<tr>
<td>DESC9071 Organisational Analysis and Behaviour</td>
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<tr>
<td>DESC9048 Operational Facility Management</td>
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<tr>
<td>DESC9172 Building Asset Management</td>
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<tr>
<td>DESC9183 Risk Management</td>
<td>6</td>
<td>A DESC9047</td>
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### Optional units

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<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
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<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>ARCH9028 Conservation Methods and Practices</td>
<td>12</td>
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<td>Semester 1</td>
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<tr>
<td>DESC9014 Building Construction Technology</td>
<td>6</td>
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<tr>
<td>DESC9074 Project Management</td>
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<td>S2 Intensive</td>
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<tr>
<td>DESC9111 Energy Management in Buildings</td>
<td>6</td>
<td>Masters candidates must complete this unit in their final semester.</td>
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<td></td>
<td></td>
<td>S1 Intensive S2 Intensive</td>
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</table>
### Certificate, Diploma and Master of Heritage Conservation

#### Core units

<table>
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<th>Unit of study</th>
<th>Credit points</th>
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<th>P: Prerequisites</th>
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<tr>
<td>ARCH9028 Conservation Methods and Practices</td>
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<tr>
<td>ARCH9075 New Design in Old Settings</td>
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<tr>
<td>ARCH9081 Heritage Law and Policy</td>
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<tr>
<td>ARCH9074 History and Theory of Conservation</td>
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<tr>
<td>ARCH9031 Research Report</td>
<td>12</td>
<td>Note: 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.</td>
<td></td>
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<tr>
<td>MARC4201 Modern Architectural History</td>
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<tr>
<td>ARCH9082 Conservation of Traditional Materials</td>
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<td>This unit of study is offered in even numbered years only.</td>
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<tr>
<td>ARCH9083 Conservation of Modern Materials</td>
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<td>This unit of study is offered in odd numbered years only.</td>
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<tr>
<td>ARCH9084 Conservation Design Studio</td>
<td>6</td>
<td>A BArch, MArch (for students pursuing the design stream of this elective) C ARCH90075 (for student with non-design undergraduate degree)</td>
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#### Optional units

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<tr>
<th>Unit of study</th>
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<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>IDEA9101 Experimental Interfaces Laboratory</td>
<td>6</td>
<td>IDEA9104</td>
<td>IDEA9103</td>
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<tr>
<td>IDEA9102 Installation Studio</td>
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<td>IDEA9103</td>
<td>IDEA9102</td>
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<tr>
<td>IDEA9103 Virtual Worlds Laboratory</td>
<td>6</td>
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<td>IDEA9103</td>
<td>IDEA9102</td>
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<tr>
<td>IDEA9104 Cyber Studio</td>
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<tr>
<td>IDEA9201 Physical Computing Laboratory</td>
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<tr>
<td>IDEA9202 Device Studio</td>
<td>12</td>
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<td>IDEA9202</td>
<td>IDEA9203</td>
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### Certificate, Diploma and Master of Interaction Design and Electronic Arts

#### Core units

<table>
<thead>
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<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>IDEA9101 Experimental Interfaces Laboratory</td>
<td>6</td>
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<td>IDEA9103</td>
<td>IDEA9102</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>IDEA9102 Installation Studio</td>
<td>12</td>
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<td>IDEA9102</td>
<td>IDEA9101</td>
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<td>Semester 1</td>
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<tr>
<td>IDEA9103 Virtual Worlds Laboratory</td>
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<td>IDEA9103</td>
<td>IDEA9102</td>
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<td>IDEA9102</td>
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</tr>
<tr>
<td>IDEA9201 Physical Computing Laboratory</td>
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<td>IDEA9203</td>
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</tr>
<tr>
<td>IDEA9202 Device Studio</td>
<td>12</td>
<td>IDEA9201</td>
<td>IDEA9202</td>
<td>IDEA9204</td>
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<td>Semester 2</td>
</tr>
</tbody>
</table>
**Graduate coursework degrees**

**Certificate, Diploma and Master of Urban Design**

**Without specialisation**

### Core units

Graduate Certificate Students must take ARCH9001; Graduate Diploma Students must take ARCH9001 and ARCH9002

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH9001 Urban Design Studio A</td>
<td>12</td>
<td>C ARCH9062 or ARCH9063</td>
<td>Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or MUrbdDes(UrbDes &amp; Plan) or MUrbdDes(Arch &amp; UrbDes).</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9062 Urban Design - Ideas and Methods</td>
<td>6</td>
<td>A Some prior study of architectural, urban or planning history.</td>
<td>N ARCH9022</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9002 Urban Design Studio B</td>
<td>12</td>
<td>P ARCH9001</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9063 Urban Morphology</td>
<td>6</td>
<td>A Some prior study of architectural, urban or planning history.</td>
<td>N ARCH9021</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9080 Urban Ecology and Design</td>
<td>6</td>
<td>A Undergraduate studio experience in design</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9060 Urban Design Report</td>
<td>12</td>
<td>P 48 credit points including ARCH9001</td>
<td>N ARCH9031, ARCH9045, ARCH9046, PLAN9010, PLAN9011, PLAN9018</td>
<td>Note: 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.</td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

**Architectural and Urban Design Stream**

These units are for the 96 credit point Master of Urban Design(Architectural & Urban Design). A maximum of 24 credit points of MARC Studios may be counted to the core requirements.
### Core units

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARC4001 Urban Architecture Research Studio</td>
<td>12</td>
<td>This studio cannot be taken in the same semester with MARC4002 or MARC4003. Students may incur materials costs in this unit.</td>
<td></td>
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<td>Semester 1</td>
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<tr>
<td>MARC4002 Sustainable Architecture Research Studio</td>
<td>12</td>
<td>This studio cannot be taken in the same semester with MARC4001 or MARC4003. Students may incur materials costs in this unit.</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>MARC4003 Digital Architecture Research Studio</td>
<td>12</td>
<td>This studio cannot be taken in the same semester with MARC4001 or MARC4002. Students may incur materials costs in this unit.</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>MARC4102 Modern Architectural Theory</td>
<td>6</td>
<td>N ARCH6104, ARCH9048, ARCH9049</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9001 Urban Design Studio A</td>
<td>12</td>
<td>C ARCH9062 or ARCH9063 Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or M UrbDes(UrbDes &amp; Plan) or M UrbDes(Arch &amp; UrbDes).</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9062 Urban Design - Ideas and Methods</td>
<td>6</td>
<td>A Some prior study of architectural, urban or planning history. N ARCH9022</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9002 Urban Design Studio B</td>
<td>12</td>
<td>P ARCH9001</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9063 Urban Morphology</td>
<td>6</td>
<td>A Some prior study of architectural, urban or planning history. N ARCH9021</td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MARC4201 Modern Architectural History</td>
<td>6</td>
<td>N ARCH4102</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9090 Urban Ecology and Design</td>
<td>6</td>
<td>A Undergraduate studio experience in design Enrolment in this unit is NOT recommended for students who have completed Urban Environment (PLAN9065 pre 2009)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
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</table>

### Urban Design and Planning Stream

These units are for the 96 credit point Master of Urban Design(Urban Design & Planning). Students who want PIA accreditation should also include PLAN9018 Planning Report, in their final semester.

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tr>
<td>ARCH9001 Urban Design Studio A</td>
<td>12</td>
<td>C ARCH9062 or ARCH9063 Permission of coordinator required unless enrolled in the Master, Grad Dip or Grad Cert of Urban Design or M UrbDes(UrbDes &amp; Plan) or M UrbDes(Arch &amp; UrbDes).</td>
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</tr>
<tr>
<td>ARCH9062 Urban Design - Ideas and Methods</td>
<td>6</td>
<td>A Some prior study of architectural, urban or planning history. N ARCH9022</td>
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<td>Semester 1</td>
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<tr>
<td>ARCH9002 Urban Design Studio B</td>
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</tr>
<tr>
<td>ARCH9063 Urban Morphology</td>
<td>6</td>
<td>A Some prior study of architectural, urban or planning history. N ARCH9021</td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9061 Planning Procedures</td>
<td>6</td>
<td>N PLAN9020, PLAN9044 Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful please contact the Faculty of Architecture Student Administration Centre. Permission required in Semester One unless enrolled in Urban and Regional Planning.</td>
<td></td>
<td></td>
<td>S1 Intensive S2 Intensive</td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9062 Planning Law</td>
<td>6</td>
<td>C PLAN9061 N PLAN9021</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9063 Foundations of Environmental Planning</td>
<td>6</td>
<td>N PLAN9027</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>PLAN9065 Resource and Environmental Management</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>PLAN9068 History and Theory in Urban Planning</td>
<td>6</td>
<td>N PLAN9031</td>
<td></td>
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<td>Semester 1</td>
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<tr>
<td>PLAN9069 Urban Design and Development Control</td>
<td>6</td>
<td>N PLAN9051</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>PLAN9064 Land Use and Infrastructure Planning</td>
<td>6</td>
<td>N PLAN9028</td>
<td></td>
<td></td>
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<td>Semester 2</td>
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</table>

### Certificate, Diploma and Master of Urban and Regional Planning

All Master degree candidates are required to complete either a Report or Dissertation.

**All streams**

**Core units**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>PLAN9063 Foundations of Environmental Planning</td>
<td>6</td>
<td>N PLAN9027</td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>PLAN9068 History and Theory in Urban Planning</td>
<td>6</td>
<td>N PLAN9031</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
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<tr>
<td>PLAN9059 Urban Design and Development Control</td>
<td>6</td>
<td>N PLAN9051</td>
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</tr>
<tr>
<td>PLAN9062 Planning Law</td>
<td>6</td>
<td>C PLAN9061 N PLAN9021</td>
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<td>Semester 2</td>
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<tr>
<td>PLAN9054 Land Use and Infrastructure Planning</td>
<td>6</td>
<td>N PLAN9028</td>
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<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9051 Planning Procedures</td>
<td>6</td>
<td>N PLAN9020 PLAN9044</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful please contact the Faculty of Architecture Student Administration Centre. Permission required in Semester One unless enrolled in Urban and Regional Planning.</td>
<td>S1 Intensive S2 Intensive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLAN9018 Planning Report</td>
<td>12</td>
<td>P 48 credit points N ARCH9031 ARCH9060 ARCH9045 ARCH9046 PLAN9010 PLAN9011 Note: Department permission required for enrolment Submit an Independent Study approval form, signed by Program Director, with your request to enrol. This unit is for masters of Urban and regional Planning student only.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>PLAN9010 Planning Dissertation 1</td>
<td>12</td>
<td>P WAM of at least 75 and 48 credit points being the core requirements for the MURP. N PLAN9018 ARCH9031 ARCH9045 ARCH9046 ARCH9060 Note: Department permission required for enrolment Submit an Independent Study approval form, signed by Program Director, with your request to enrol. This unit is for masters of Urban and regional Planning student only. It MUST be taken in conjunction with PLAN9011 Planning Dissertation 2, either in the same or following semester.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>PLAN9011 Planning Dissertation 2</td>
<td>12</td>
<td>P WAM of at least 75 and 48 credit points being the core requirements for the MURP C PLAN9010 This unit is for Masters of Urban &amp; Regional Planning students only. It MUST be taken in conjunction with PLAN9010 Planning Dissertation 1, either in the same or preceding semester.</td>
<td></td>
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<td></td>
<td>Semester 1 Semester 2</td>
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Elective units

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAN9055 Resource and Environmental Management</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>PLAN9049 Development Planning and Policy</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>PLAN9057 Metropolitan Planning</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>PLAN9071 Housing &amp; Urban and Regional Development</td>
<td>6</td>
<td>S1 Late Int</td>
</tr>
<tr>
<td>PLAN9074 Public &amp; Community Finance for Planners</td>
<td>6</td>
<td>S2 Intensive</td>
</tr>
<tr>
<td>PLAN9073 GIS Based Planning Policy and Analysis</td>
<td>6</td>
<td>S2 Late Int</td>
</tr>
<tr>
<td>PLAN9045 Economic Tools and Community Development</td>
<td>6</td>
<td>S2 Late Int</td>
</tr>
<tr>
<td>PLAN9048 Environmental Design and Planning</td>
<td>6</td>
<td>S2 Late Int</td>
</tr>
<tr>
<td>PLAN9072 Housing Policy and Assistance</td>
<td>6</td>
<td>S2 Late Int</td>
</tr>
<tr>
<td>Faculty of Science Electives</td>
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<td></td>
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<tr>
<td>Courses offered by the Faculty of Science.</td>
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<tr>
<td>ENVI5801 Social Science of Environment</td>
<td>6</td>
<td>Semester 1a</td>
</tr>
<tr>
<td>ENVI5903 Sustainable Development</td>
<td>6</td>
<td>Semester 2a</td>
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</table>

Heritage Conservation Stream

<table>
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<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH9028 Conservation Methods and Practices</td>
<td>12</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9074 History and Theory of Conservation</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9075 New Design in Old Settings</td>
<td>6</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9062 Conservation of Traditional Materials</td>
<td>6</td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9083 Conservation of Modern Materials</td>
<td>6</td>
<td>Semester 2</td>
</tr>
</tbody>
</table>
Master of Architecture

Overview

Aims of the Master of Architecture
The basic aims of the professional Master 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 Master of Architecture
The Master of Architecture 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
  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.

Architectural design
The Master of Architecture program prepares students for the complex and challenging role of the professional architect. The program centres on design studios, supported by taught units in history and theory, advanced architectural technologies, and practice. In addition, there are a wide range of elective units from which students may choose in order to extend their knowledge and skills into other related areas.

The design studios are structured to respond to critical issues facing contemporary architectural design and to draw on the expertise in these issues of the faculty's specialist graduate programs and research activities. In this way, the studios both contribute to and are informed by faculty research. The areas of specialised study in the studios are:

- Urban Architecture
- Sustainable Architecture
- Digital Architecture

Students are required to complete four semesters of design units, each of which is vertically integrated, giving first and second year students the opportunity to work with and learn from each other. During their first three semesters students study in the Urban Studio, the Sustainability Studio and the Digital Studio, each for one semester and complete the Graduation Studio during their fourth semester as the capstone experience of their degree.

Professional recognition
Graduates who hold the degree of Master 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 12 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.

Students are eligible for student membership of the Australian Institute of Architects. Student members receive each issue of Architecture Australia, the New South Wales chapter Bulletin, and the AIA News. They may also attend Institute functions.

Admission to Associate Membership of the Australian Institute of Architects is based on two years approved practical experience.

Admission
The resolutions of the faculty (later in this handbook) specify the conditions of admission to the degree. In summary, an applicant for admission to the Master of Architecture must:

- either complete the Bachelor of Design in Architecture or an equivalent degree, with a WAM of at least 65, and
- have completed the Master of Architecture prerequisite units of study in their first degree, if proceeding from the Bachelor of Design in Architecture, and
- have completed the Architectural Experience Requirement.

The Architectural Experience Requirement can be satisfied by one of the following methods:

- by completing the Bachelor of Design in Architecture with Honours, or
- by completing professional work experience as an employee in architecture (minimum of 630 hours recorded in the Architects Accreditation Council of Australia (AACA) Log Book), or
- by undertaking an approved University of Sydney international exchange in the first semester of enrolment, or
- by completing professional work experience in a related industry (minimum of 630 hours appropriately recorded), or
- by completing field study in relation to architecture (including, but not limited to, international field study), appropriately documented to the satisfaction of the faculty, and
- by completing a postgraduate qualification in a related discipline, or
- by a combination of methods above.

Students may apply to commence study in the Master of Architecture program in either Semester One or Two.
Construction Induction Certificate – Green Card

Students entering the Master of Architecture are strongly advised to undertake training for a Construction Induction Certificate, also known as a Green Card. This certificate provides standardised training in safe working practice on building sites. It is required by law if you intend to enter any building site in NSW and is administered by WorkCover NSW. Training is subcontracted to private providers.

For more information including a directory of training providers please phone 13 10 50 or visit the WorkCover NSW website: www.workcover.nsw.gov.au/Training/ConstructionInduction/default.htm
Master of Architecture Enrolment guide

The Master of Architecture is a two-year full-time degree. 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 18). All students should read the degree resolutions and monitor their progress through 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 M,
- must complete successfully 18 credit points from elective units of study from those listed in Table M, or, with permission from the unit coordinator concerned (see Table G).

**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. A recommended enrolment planner for the core units of the degree follows.

**Master of Architecture enrolment planner - Semester One commencement**

<table>
<thead>
<tr>
<th>Credit points shown in brackets</th>
<th>March Semester</th>
<th>July Semester</th>
<th>March Semester</th>
<th>July Semester</th>
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<tbody>
<tr>
<td>Research studios</td>
<td>MARC4001</td>
<td>Research studios</td>
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<td>Research studios</td>
</tr>
<tr>
<td>Urban Architecture (12) or</td>
<td>MARC4002</td>
<td>Sustainable Architecture (12) or</td>
<td>MARC4003</td>
<td>Digital Architecture (12)</td>
</tr>
<tr>
<td>MARC4002</td>
<td>Sustainable Architecture (12) or</td>
<td>MARC4003</td>
<td>Digital Architecture (12)</td>
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</tr>
<tr>
<td>Digital Architecture (12)</td>
<td>(and)</td>
<td>(and)</td>
<td>(and)</td>
<td>(and)</td>
</tr>
<tr>
<td>(and/or)</td>
<td>MARC4101</td>
<td>MARC5101</td>
<td>MARC4101</td>
<td>MARC5101</td>
</tr>
<tr>
<td>(and/or)</td>
<td>(and/or)</td>
<td>(and/or)</td>
<td>(and/or)</td>
<td>(and/or)</td>
</tr>
<tr>
<td>MARC4201</td>
<td>MARC4102</td>
<td>MARC4201</td>
<td>MARC4201</td>
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</tr>
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<td>Modern Architectural Theory (6)</td>
<td>Modern Architectural History (6)</td>
<td>(and)</td>
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<tr>
<td></td>
<td>MARC5102</td>
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<td>MARC5102</td>
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<td>Contract Documentation (6)</td>
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**Master of Architecture enrolment planner - Semester Two commencement**

<table>
<thead>
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<th>Credit points shown in brackets</th>
<th>July Semester</th>
<th>March Semester</th>
<th>July Semester</th>
<th>March Semester</th>
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<td>MARC4001</td>
<td>Research studios</td>
<td>MARC4001</td>
<td>Research studios</td>
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<td>MARC4002</td>
<td>Sustainable Architecture (12) or</td>
<td>MARC4003</td>
<td>Digital Architecture (12)</td>
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<td>Sustainable Architecture (12) or</td>
<td>MARC4003</td>
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# Table M: Master of Architecture

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About this chapter

This chapter explains the policies and procedures for overseas exchange for postgraduate students in coursework degrees and the Master of Architecture.

Exchange in the Master of Architecture

The faculty may approve international exchange for qualified students in semesters one to three of the Master of Architecture. All students must complete the final semester at the University of Sydney.

Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student’s program must be approved in consultation with the program director of the degree.

Students who wish to, may go on exchange for one semester at the commencement of the degree and use this both to satisfy the ‘Architectural Experience Requirement’ for entry to the degree, and for credit toward the first year of the program.

Students should plan to follow the enrolment pattern prescribed for their chosen semester of exchange as closely as possible. Exchange units should be taken as part of the degree and not in addition to the degree requirements. Consideration should be given to how you will be able to complete your degree requirements when you return, paying attention to the semester of offer of the core units.

Exchange students are required to enrol in a full-time load at the University of Sydney in the semester of exchange, and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner university.

Specially designated units of study will be recorded on the transcript. A result of ‘R’ for ‘Satisfied Requirements’ will be recorded by the University against each successfully completed unit. The transcript of the exchange university will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count towards a student’s Weighted Average Mark.

For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<td>Semester 1, 2</td>
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</table>
Exchange in other graduate coursework degrees

The faculty may approve international exchange for qualified students in graduate coursework master degrees.

Exchanges may be for one semester only. Students must apply through the Study Abroad and Exchange unit of the International Office. Each student’s program must be approved in consultation with the program director of the degree.

No program will be approved that involves the completion of more than 50 per cent of the core requirements of the degree on exchange.

Exchange units should be taken as part of the degree, satisfying the requirements that would normally be covered at this university during the same period. Exchange should not be in addition to the degree requirements.

Exchange students are required to enrol in a full-time load at the University of Sydney and will incur the tuition costs associated with that load. No tuition costs will be incurred with the partner university.

Specially designated units of study will be recorded on the transcript. A result of ‘R’ for ‘Satisfied Requirements’ will be recorded by the University against each successfully completed unit. The transcript of the exchange university will be the official detailed record of exactly what was completed during the exchange. Exchange results will not count towards a student’s Weighted Average Mark.

For more information please contact either the Study Abroad and Exchange Office or the Faculty of Architecture, Design and Planning Student Administration Centre.

The exchange units for enrolment at the University of Sydney, to be approved with the program director, shall be selected from the following table.

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
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About this chapter

This chapter contains the regulations governing the postgraduate coursework degrees, diplomas and certificates in the Faculty of Architecture, Design and Planning.

These rules should be read in conjunction with the University of Sydney Coursework Rule 2000 (as amended), the unit of study information in Table M (Master of Architecture), Table G (Table of graduate units of study) and the Senate and Faculty resolutions outlined in the chapter under Faculty policies, procedures and facilities, earlier in the book.

The resolutions constitute the main framework by which your candidature is governed and you should refer to them from time to time to check the progress of your award or when other circumstances arise that require adjudication.

The resolutions are arranged in the following order in this chapter:

- Master of Architecture (all parts)
- Design Science
- Facilities Management
- Heritage Conservation
- Interaction Design and Electronic Arts
- Urban and Regional Planning
- Urban Design

Master of Architecture

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course Codes

<table>
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<tr>
<th>Code</th>
<th>Course title</th>
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<tbody>
<tr>
<td>CC165</td>
<td>Master of Architecture</td>
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</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Master's type

The master's degree in these resolutions is a professional master's course, as defined by the Coursework Rule.

4 Admission to candidature

(1) Available places will be offered to qualified applicants based on merit, according to the following admission criteria. In exceptional circumstances the Dean may admit applicants without these qualifications but where evidence of experience and achievement is deemed by the Dean to be equivalent.

(2) Admission to the degree requires:
   (a) a Bachelor of Design in Architecture from the University of Sydney or an equivalent qualification, with a credit average across all units; and
   (b) completion of the Master of Architecture prerequisite unit(s) of as listed in table A, if proceeding to candidature from the Bachelor of Design in Architecture; and
   (c) completion of the Architectural Experience Requirement.

(3) The Architectural Experience Requirement can be satisfied by one or a combination of the following methods:
   (a) completion of the Bachelor of Design in Architecture with honours; or
   (b) completion of professional work experience in Architecture or related industry with a minimum of 630 hours recorded in the Architects Accreditation Council of Australia (AACA) Log Book, or for experience outside of Australia, a signed letter from the supervising architect detailing duties and number of hours worked; or
   (c) completion of an approved international exchange program in the first semester of enrolment; or
   (d) completion of a field study in relation to Architecture, appropriately documented to the satisfaction of the Faculty. Various research methods may be used, including interviews and detailed comparative analysis drawings. The final study should be produced as an illustrated report of approximately twenty A4 pages; or
   (e) completion of a postgraduate qualification in a related discipline.

5 Requirements for award

(1) The units of study that may be taken for this award are set out in Table M.

(2) To qualify for the award of the Master of Architecture a candidate must complete 96 credit points, including:
   (a) 78 credit points of core units of study; and
   (b) 18 credit points of elective units of study.

6 Credit for previous study

Credit transfer is subject to the provisions of the Coursework Rule and the Resolutions of the Faculty of Architecture, Design and Planning. Credit may be granted in the Master of Architecture for a unit of study completed in excess of the requirements for completion of the Bachelor of Design in Architecture only if that unit is deemed by the Dean to contribute to the degree requirements of the Master of Architecture.

7 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
Graduate Certificate in Design Science
Graduate Diploma in Design Science
Master of Design Science

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the ‘Coursework Rule’), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course codes

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<tr>
<td>CG042</td>
<td>Graduate Certificate in Design Science (Building)*</td>
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<tr>
<td>CG043</td>
<td>Graduate Certificate in Design Science (Building Services)</td>
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<tr>
<td>CG048</td>
<td>Graduate Certificate in Design Science (Illumination Design)</td>
</tr>
<tr>
<td>CG049</td>
<td>Graduate Certificate in Design Science (Sustainable Design)</td>
</tr>
<tr>
<td>CF051</td>
<td>Graduate Diploma in Design Science (Audio and Acoustics)</td>
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<td>CF042</td>
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<td>CC051</td>
<td>Master of Design Science (Audio and Acoustics)</td>
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<td>CC151</td>
<td>Master of Design Science (Audio and Acoustics and stream)</td>
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<td>CC042</td>
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<td>CC142</td>
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<td>CC149</td>
<td>Master of Design Science (Sustainable Design and stream)</td>
</tr>
</tbody>
</table>

*Last admission semester 2, 2008

2 Attendance pattern

(1) The attendance pattern for these courses is full time or part time, according to candidate choice, with the exception of the following courses which are only offered part time:

(a) the Graduate Certificate in Design Science (Sustainable Design)
(b) the Graduate Certificate in Design Science (Illumination Design)
(c) the Graduate Diploma in Design Science (Illumination Design) if commenced in an even numbered year
(d) the Master of Design Science (Illumination Design) if commenced in an even numbered year
(e) the Graduate Certificate in Design Science (Audio and Acoustics) if commenced in semester two.

3 Master's type

The master's degrees in these resolutions are professional master's courses, as defined by the Coursework Rule.

4 Embedded courses in this sequence

(1) The embedded courses in this sequence are:

(a) the Graduate Certificate in Design Science
(b) the Graduate Diploma in Design Science
(c) the Master of Design Science

(2) Providing candidates satisfy the admission requirements for each stage, a candidate may progress to the award of any of the courses in this sequence. Only the longest award completed will be conferred.

5 Streams

(1) Candidates for the Graduate Certificate, Graduate Diploma and Master of Design Science are required to complete one of the following streams:

(a) Audio and acoustics;
(b) Building;
(c) Building services;
(d) Illumination design; and
(e) Sustainable design.

(2) Candidates for the Master of Design Science who elect a 96 credit point program must complete two streams, combining any of the above. The following stream is also available, as a secondary stream only - Facilities management.

(3) Completion of a stream(s) is a requirement of the course.

(4) Candidates wishing to transfer between streams should contact the Faculty student office.

6 Admission to candidature

(1) Available places will be offered to qualified applicants in the order in which complete applications are received, according to the following admissions criteria.

(2) Admission to the Graduate Certificate in Design Science requires a bachelor's degree from the University of Sydney, or an equivalent qualification.

(3) Admission to the Graduate Diploma in Design Science requires:

(a) a bachelor's degree from the University of Sydney, or an equivalent qualification; or
(b) completion of the requirements of the embedded graduate certificate with a weighted average mark of at least 70 across all units attempted for the award.

(4) Admission to the Master of Design Science requires:

(a) a bachelor's degree from the University of Sydney or an equivalent qualification; or
(b) completion of the requirements of the embedded graduate diploma; or
(c) completion of the requirement of the graduate certificate with a weighted average mark of at least 70 across all the units attempted for the award.

(5) In exceptional circumstances the Dean or nominee may admit applicants without the following qualifications but whose evidence of experience and achievement is deemed by the Dean or nominee to be equivalent.

7 Requirements for award

(1) The units of study that may be taken for these awards are set out in Table G.

(2) To qualify for the award of the Graduate Certificate in Design Science, a candidate must complete 24 credit points in a single stream, as specified in the tables of requirements below.

(3) To qualify for the award of the Graduate Diploma in Design Science, a candidate must complete 48 credit points in a single stream, as specified in the tables of requirements below.

(4) To qualify for the award of the Master of Design Science with a single stream, a candidate must complete 72 credit points
in a single stream, as specified in the tables of requirements below.

To qualify for the award of the Master of Design Science with two streams, a candidate must complete 96 credit points in two streams, as specified in the table of requirements below, and:

- (a) nominate which of the two streams is primary, and meet the core and optional requirements for that stream;
- (b) nominate which of the streams is secondary, and meet the core requirements for that stream;
- (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.

### Tables of Requirements:

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<thead>
<tr>
<th>Course title</th>
<th>Minimum Core CP</th>
<th>Minimum Optional CP</th>
<th>Maximum Elective CP</th>
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<td>Audio and Acoustics</td>
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<td>Graduate Certificate</td>
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<td>Masters</td>
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<td>Masters (Secondary stream only)</td>
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<thead>
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<th>Course title</th>
<th>Minimum Core CP</th>
<th>Minimum Optional CP</th>
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<td>36 6 6</td>
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<tr>
<td>Graduate Certificate</td>
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<tr>
<td>Graduate Diploma</td>
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<tr>
<td>Masters</td>
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<table>
<thead>
<tr>
<th>Course title</th>
<th>Minimum Core CP</th>
<th>Minimum Optional CP</th>
<th>Maximum Elective CP</th>
</tr>
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<tr>
<td>Sustainable Design</td>
<td>18 6 0</td>
<td>24 12 12</td>
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<td>Graduate Certificate</td>
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<td>Graduate Diploma</td>
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<td></td>
</tr>
<tr>
<td>Masters</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(7) Core units completed in excess of the minimum requirements may count as optional or elective units of study.

(8) Optional units completed in excess of the minimum requirements may count as elective units of study.

### 8 Course transfer

A candidate for the master's degree or graduate diploma may elect to discontinue study and graduate with a shorter award from this embedded sequence, with the approval of the Dean, and provided the requirements of the shorter award have been met.

### 9 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.

### Graduate Certificate in Facilities Management

### Graduate Diploma in Facilities Management

### Master of Facilities Management

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

### Course Resolutions

#### 1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
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<tr>
<td>CG056</td>
<td>Graduate Certificate in Facilities Management</td>
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<tr>
<td>CF056</td>
<td>Graduate Diploma in Facilities Management</td>
</tr>
<tr>
<td>CC056</td>
<td>Master of Facilities Management</td>
</tr>
</tbody>
</table>

#### 2 Attendance pattern

The attendance pattern for these courses is either full time or part time according to student choice.

#### 3 Master's type

The master's degree in these resolutions is a professional master's course, as defined by the Coursework Rule.

#### 4 Embedded courses in this sequence

(1) The embedded courses in this sequence are:

- (a) the Graduate Certificate in Facilities Management
- (b) the Graduate Diploma in Facilities Management
- (c) the Master of Facilities Management

(2) Providing candidates satisfy the admission requirements for each stage, a candidate may progress to the award of any of the courses in this sequence. Only the longest award completed will be conferred.

#### 5 Admission to candidature

(1) Available places will be offered to qualified applicants based on merit, according to the following admissions criteria:

(2) Admission to the Graduate Certificate in Facilities Management requires a bachelor's degree from the University of Sydney or an equivalent qualification.

(3) Admission to the Graduate Diploma in Facilities Management requires:

- (a) a bachelor's degree from the University of Sydney or an equivalent qualification; or
- (b) completion of the requirements of the embedded graduate certificate with a WAM of at least 70.

(4) Admission to the Master of Facilities Management requires:

- (a) a bachelor's degree from the University of Sydney or an equivalent qualification; or
- (b) completion of the requirements of the embedded graduate diploma; or
- (c) completion of the requirements of the embedded graduate certificate with a WAM of at least 70.
6 Requirements for award

(1) The units of study that may be taken for this course are set out in Table G.

(2) To qualify for the award of the Graduate Certificate in Facilities Management, a candidate must complete 18 credit points of core units of study and 6 credit points of elective units of study.

(3) To qualify for the award of the Graduate Diploma in Facilities Management, a candidate must complete 48 credit points, including:
   (a) minimum 24 credit points of core units of study; and
   (b) minimum 12 credit points of optional units of study; and
   (c) maximum 12 credit points of elective units of study.

(4) To qualify for the award of the Master of Facilities Management, a candidate must complete 72 credit points, including:
   (a) minimum 36 credit points of core units of study; and
   (b) minimum 18 credit points of optional units of study; and
   (c) maximum 18 credit points of elective units of study.

(5) Core units completed in excess of the minimum requirements may count as elective units of study.

(6) Optional units completed in excess of the minimum requirements may count as elective units of study.

7 Course transfer

A candidate for the master's degree or graduate diploma may elect to discontinue study and graduate with a shorter award from this embedded sequence, with the approval of the Dean, and provided the requirements of the shorter award have been met.

8 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.

Graduate Certificate in Heritage Conservation

Graduate Diploma in Heritage Conservation

Master of Heritage Conservation

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the 'Coursework Rule'), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course codes

<table>
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<tr>
<th>Code</th>
<th>Course title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG003</td>
<td>Graduate Certificate in Heritage Conservation</td>
</tr>
<tr>
<td>CF033</td>
<td>Graduate Diploma in Heritage Conservation</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time or part time with the exception of the following course which is only offered part time - the Graduate Certificate in Heritage Conservation if commenced in semester 2.

3 Master's type

The master's degree in these resolutions is a professional master's course, as defined by the Coursework Rule.

4 Embedded courses in this sequence

(1) The embedded courses in this sequence are:
   (a) the Graduate Certificate in Heritage Conservation
   (b) the Graduate Diploma in Heritage Conservation
   (c) the Master of Heritage Conservation

(2) Providing candidates satisfy the admission requirements for each stage, a candidate may progress to the award of any of the courses in this sequence. Only the longest award completed will be conferred.

5 Admission to candidature

(1) Available places will be offered to qualified applicants in the order in which complete applications are received, according to the following admissions criteria.

(2) Admission to the Graduate Certificate in Heritage Conservation requires a bachelor's degree from the University of Sydney or an equivalent qualification.

(3) Admission to the Graduate Diploma in Heritage Conservation requires:
   (a) a bachelor's degree from the University of Sydney or an equivalent qualification; or
   (b) completion of the requirements of the embedded graduate certificate with a weighted average mark of at least 70 across all units attempted for the award.

(4) Admission to the Master of Heritage Conservation requires:
   (a) a bachelor's degree from the University of Sydney or an equivalent qualification with a credit average mark across all units; or
   (b) completion of the requirements of the embedded graduate diploma; or
   (c) completion of the requirements of the graduate certificate with a weighted average mark of at least 70 across all units attempted for the award.

(5) In exceptional circumstances the Dean may admit applicants without these qualifications but whose evidence of experience and achievement is deemed by the Dean to be equivalent.

6 Requirements for award

(1) The units of study that may be taken for these awards are set out in Table G.

(2) To qualify for the award of the Graduate Certificate in Heritage Conservation, a candidate must complete 24 credit points, including:
   (a) minimum 18 credit points of core units of study; and
   (b) minimum 6 credit points of optional units of study.

(3) To qualify for the award of the Graduate Diploma in Heritage Conservation, a candidate must complete 48 credit points, including:
   (a) minimum 30 credit points of core units of study; and
   (b) minimum 6 credit points of optional units of study; and
   (c) maximum 12 credit points of elective units of study.

(4) To qualify for the award of the Master of Heritage Conservation, a candidate must complete 72 credit points, including:
   (a) minimum 42 credit points of core units of study; and
   (b) minimum 18 credit points of optional units of study; and
Embedded courses in this sequence

Course title

Master of Interaction Design and Electronic Arts

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the "Coursework Rule"), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2008 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course codes

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<th>Code</th>
<th>Course title</th>
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</thead>
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<tr>
<td>CG055</td>
<td>Graduate Certificate in Interaction Design and Electronic Arts</td>
</tr>
<tr>
<td>CF055</td>
<td>Graduate Diploma in Interaction Design and Electronic Arts</td>
</tr>
<tr>
<td>CC055</td>
<td>Master of Interaction Design and Electronic Arts</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time or part time according to student choice.

3 Master's type

The master's degree in these resolutions is a professional master’s course, as defined by the Coursework Rule.

4 Embedded courses in this sequence

(1) The embedded courses in this sequence are:
   (a) the Graduate Certificate in Interaction Design and Electronic Arts
   (b) the Graduate Diploma in Interaction Design and Electronic Arts

(2) Providing candidates satisfy the admission requirements for each stage, a candidate may progress to the award of any of the courses in this sequence. Only the longest award completed will be conferred.

5 Admission to candidacy

(1) Available places will be offered to qualified applicants based on merit, according to the following admissions criteria.

(2) Admission to the Graduate Certificate in Interaction Design and Electronic Arts requires a bachelor's degree from the University of Sydney or an equivalent qualification.

(3) Admission to the Graduate Diploma in Interaction Design and Electronic Arts requires:
   (a) a bachelor’s degree from the University of Sydney or an equivalent qualification; or
   (b) completion of the requirements of the embedded graduate diploma; or
   (c) completion of the requirements of the embedded graduate certificate with a WAM of at least 70.

(4) Admission to the Master of Interaction Design and Electronic Arts requires:
   (a) a bachelor’s degree from the University of Sydney or an equivalent qualification with a credit average mark across all units; or
   (b) completion of the requirements of the embedded graduate certificate with a WAM of at least 70.

(5) In exceptional circumstances the Dean may admit applicants without these qualifications but whose evidence of experience and achievement is deemed by the Dean to be equivalent.

6 Requirements for award

(1) The units of study that may be taken for the courses are set out in Table G.

(2) To qualify for the award of the Graduate Certificate in Interaction Design and Electronic Arts, a candidate must complete 24 credit points, including:
   (a) minimum 18 credit points of core units of study; and
   (b) maximum 6 credit points of elective units of study.

(3) To qualify for the award of the Graduate Diploma in Interaction Design and Electronic Arts, a candidate must complete 48 credit points, including:
   (a) minimum 36 credit points of core units of study; and
   (b) maximum 6 credit points of elective units of study.

(4) To qualify for the award of the Master of Interaction Design and Electronic Arts, a candidate must complete 72 credit points, including:
   (a) minimum 54 credit points of core units of study; and
   (b) minimum 12 credit points of optional units of study; and
   (c) maximum 6 credit points of elective units of study.

(5) Core units completed in excess of the minimum requirements may count as optional or elective units of study.

(6) Optional units completed in excess of the minimum requirements may count as elective units of study.

7 Course transfer

A candidate for the master's degree or graduate diploma may elect to discontinue study and graduate with a shorter award from this embedded sequence, with the approval of the Dean, and provided the requirements of the shorter award have been met.

8 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty
may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.

Graduate Certificate in Urban and Regional Planning

Graduate Diploma in Urban and Regional Planning

Master of Urban and Regional Planning

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the ‘Coursework Rule’), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.

Course Resolutions

1 Course codes

<table>
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<th>Code</th>
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<tr>
<td>CF034</td>
<td>Graduate Diploma in Urban and Regional Planning</td>
</tr>
<tr>
<td>CC034</td>
<td>Master of Urban and Regional Planning</td>
</tr>
<tr>
<td>CC034</td>
<td>Master of Urban and Regional Planning (Heritage Conservation)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time or part time according to student choice.

3 Master’s type

The master’s degree in these resolutions is a professional master’s course, as defined by the Coursework Rule.

4 Embedded courses in this sequence

(1) The embedded courses in this sequence are:
   (a) the Graduate Certificate in Urban and Regional Planning
   (b) the Graduate Diploma in Urban and Regional Planning
   (c) the Master of Urban and Regional Planning

(2) Providing candidates satisfy the admission requirements for each stage, a candidate may progress to the award of any of the courses in this sequence. Only the longest award completed will be conferred.

5 Streams

(1) The Master of Urban and Regional Planning is available in the following stream - Heritage Conservation.

(2) Completion of a stream is not a requirement of the course.

(3) Candidates wishing to transfer between streams should contact the Faculty student office.

6 Admission to candidature

(1) Available places will be offered to qualified applicants based on merit, according to the following admissions criteria.

(2) Admission to the Graduate Certificate in Urban and Regional Planning requires a bachelor’s degree from the University of Sydney or an equivalent qualification.

(3) Admission to the Graduate Diploma in Urban and Regional Planning requires:
   (a) a bachelor’s degree from the University of Sydney or an equivalent qualification; or

(4) Admission to the Master of Urban and Regional Planning requires:
   (a) a bachelor’s degree from the University of Sydney or an equivalent qualification with a credit average mark across all units; or
   (b) completion of the requirements of the embedded graduate diploma; or
   (c) completion of the requirements of the embedded graduate certificate with a WAM of at least 70.

(5) In exceptional circumstances the Dean may admit applicants without these qualifications but whose evidence of experience and achievement is deemed by the Dean to be equivalent.

7 Requirements for award

(1) The units of study that may be taken for the courses are set out in Table G.

(2) To qualify for the award of the Graduate Certificate in Urban and Regional Planning, a candidate must complete 24 credit points, including:
   (a) minimum 18 credit points of core units of study; and
   (b) maximum 6 credit points of elective units of study.

(3) To qualify for the award of the Graduate Diploma in Urban and Regional Planning, a candidate must complete 48 credit points, including:
   (a) minimum 24 credit points of core units of study; and
   (b) maximum 24 credit points of elective units of study.

(4) To qualify for the award of the Master of Urban and Regional Planning, a candidate must complete 72 credit points including:
   (a) minimum 48 credit points of core units of study; and
   (b) maximum 24 credit points of elective units of study.

(5) Heritage Conservation stream:
   (a) minimum 48 credit points of core units of study; and
   (b) minimum 18 credit points of optional units of study; and
   (c) maximum 6 credit points of elective units of study.

(6) Core units completed in excess of the minimum requirements may count as optional or elective units of study.

(7) Optional units completed in excess of the minimum requirements may count as elective units of study.

8 Course transfer

A candidate for the master’s degree or graduate diploma may elect to discontinue study and graduate with a shorter award from this embedded sequence, with the approval of the Dean, provided the requirements of the shorter award have been met.

9 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.

Graduate Certificate in Urban Design

Graduate Diploma in Urban Design

Master of Urban Design

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2010 (the ‘Coursework Rule’), the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended) and the Academic Board policies on Academic Dishonesty and Plagiarism.
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Course Resolutions

1 Course codes

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<td>CG005</td>
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<td>CF035</td>
<td>Graduate Diploma in Urban Design</td>
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<td>CC035</td>
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<td>CC136</td>
<td>Master of Urban Design (Architectural and Urban Design)</td>
</tr>
<tr>
<td>CC135</td>
<td>Master of Urban Design (Urban Design and Planning)</td>
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</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time or part time according to student choice.

3 Master's type

The master’s degree in these resolutions is a professional master's course, as defined by the Coursework Rule.

4 Embedded courses in this sequence

(1) The embedded courses in this sequence are:
   (a) the Graduate Certificate in Urban Design
   (b) the Graduate Diploma in Urban Design
   (c) the Master of Urban Design

(2) Providing candidates satisfy the admission requirements for each stage, a candidate may progress to the award of any of the courses in this sequence. Only the longest award completed will be conferred.

5 Streams

(1) The Master of Urban Design is also available in the following streams:
   (a) Architectural and Urban Design
   (b) Urban Design and Planning.

(2) Completion of a stream is not a requirement of the course; applicants are required to nominate whether they will complete the degree with or without a stream at the point of application.

(3) Candidates wishing to transfer between streams should contact the Faculty student office.

6 Admission to candidature

(1) Available places will be offered to qualified applicants based on merit according to the following admissions criteria.

(2) Admission to these courses requires:
   (a) a portfolio of work indicating relevant design interests and capacities to the satisfaction of the program director; and
   (b) a professional degree in architecture or a degree in landscape architecture, urban planning or related field.

(3) In exceptional circumstances the Dean may admit applicants without these qualifications but whose evidence of experience and achievement is deemed by the Dean to be equivalent.

7 Requirements for award

(1) To qualify for the award of the Graduate Certificate in Urban Design, a candidate must complete 24 credit points, including:
   (a) minimum 18 credit points of core units of study, which must include ARCH9001 Urban Design Studio A; and
   (b) maximum 6 credit points of elective units of study.

(2) To qualify for the award of the Graduate Diploma in Urban Design, a candidate must complete 48 credit points, including:
   (a) minimum 36 credit points of core units of study, which must include ARCH9001 Urban Design Studio A and ARCH9002 Urban Design Studio B; and
   (b) maximum 12 credit points of elective units of study.

(3) To qualify for the award of the Master of Urban Design, a candidate must complete 72 credit points, including:
   (a) minimum 54 credit points of core units of study; and
   (b) maximum 18 credit points of elective units of study.

(4) To qualify for the award of the Master of Urban Design with streams, a candidate must complete 96 credit points, including:
   (a) minimum 78 credit points of core units of study; and
   (b) maximum 18 credit points of elective units of study.

(5) Core units completed in excess of the minimum requirements may count as elective units of study.

8 Course transfer

A candidate for the master's degree or graduate diploma may elect to discontinue study and graduate with a shorter award from this embedded sequence, with the approval of the Dean, and provided the requirements of the shorter award have been met.

9 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 and students who commenced their candidature prior to 1 January, 2011 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2011 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2016. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
About this chapter

This chapter lists the descriptions of all postgraduate units of study offered by the Faculty of Architecture, Design and Planning, in unit of study code order. For information about how these units of study fit into your specific degree structure please refer to either:

- Table M for the Master of Architecture, or
- Table G for all other graduate degrees.

You should pay special attention to any enrolment information and instructions. For a full explanation of some of the terms you will encounter in this list please see the glossary at the rear of the handbook.

Unit of study descriptions

ARCH9001
Modes of Inquiry: Research & Scholarship

Credit points: 6  
Teacher/Coordinator: Prof Richard de Dear  
Session: Semester 1, Semester 2  
Classes: Five hours average class time per week, activities comprise, lectures seminars workshops and tutorials  
Assessment: written research proposal (50%), oral research proposal (50%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Permission required unless enrolled in a research degree. This unit is a probationary requirement for all MPhil and PhD students in the Faculty of Architecture, Design and Planning.

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 & Learning Outcomes: To provide newly admitted research students with a fundamental understanding of the nature of inquiry through research, the philosophy of scientific research and interpretive scholarship and a range of fundamentally different epistemologies or 'modes of inquiry'. The modes of inquiry explored includes (1) empirical, field-based epistemology used heavily in architectural science urban planning and other field-based research, including experimental, quasi-experimental, survey, naturalistic, ethnographic and case study methods; (2) text-based, interpretive epistemology used heavily in architecture and the allied arts and other humanities, including archival, historical, theoretical, interpretative, discourse analysis and other text based methods; (3) computationally-based epistemology used heavily in design computing and other IT-based disciplines, including axiom and conjecture based, simulation, virtual reality, and prototype development methods; and (4) policy-oriented, communication-contingency and modelling epistemologies used heavily in urban and regional planning and other policy-based disciplines, including archival, strategic and evidence-based policy research, communications and morphological analyses and quantitative modelling; as well as (5) interdisciplinary combinations, triangulations and mixed modes.

ARCH9002
Urban Design Studio B

Credit points: 12  
Teacher/Coordinator: Dr Lee Stickells  
Session: Semester 1, Semester 2  
Classes: 4 hours per week studio work, presentations and critiques  
Prerequisites: ARCH9001 Assessment: Design and design-related projects and assignments, (100%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

Students will be expected to demonstrate appropriate (professional-level) problem recognition, investigative, analytical, interpretative, design 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.

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 urban 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 interdisciplinary group work an essential part. Visionary and innovative approaches are encouraged.

ARCH9001
Urban Design Studio A

Credit points: 12  
Teacher/Coordinator: Dr Lee Stickells  
Session: Semester 1, Semester 2  
Classes: 4 hours per week - studio work, presentations and critiques  
Corequisites: ARCH9062 or ARCH9063  
Assessment: Design and design-related projects and assignments, (100%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

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 interdisciplinary group work and essential part. Visionary and innovative approaches are encouraged.
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.

ARCH9028 Conservation Methods and Practices
Credit points: 12 Teacher/Coordinator: Mr Trevor Howells Session: Semester 1 Classes: 4 hours per week lectures and site visits Assessment: Three assignments (equally weighted) (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day

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.

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).

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.

ARCH9031 Research Report
Credit points: 12 Teacher/Coordinator: Mr Trevor Howells/Program Director Session: Semester 1, Semester 2 Classes: Independent research under academic supervision Assessment: 10000 to 15000 word report (90%), research proposal (10 %). Final reports due by the end of the first week of the formal examination period. Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

The report is a substantial piece of research conducted over one semester. It takes the form of report (between 10000 and 15000 words) on an approved subject of your choice. The report is an opportunity to advance your knowledge and skills in a particular area. 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; and present your findings in a way that demonstrates academic and professional competence. 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; and discussion of conclusions. Permission to continue the Report may be subject to a satisfactory research proposal being approved by your supervisor by week 3 of semester. 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 two examiners, neither of whom is your supervisor.

ARCH9039 General Elective 1
Credit points: 6 Teacher/Coordinator: Mr Trevor Howells Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Assessment: Assignments as determined by Coordinator Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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.

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.

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

ARCH9040 General Elective 2
Credit points: 6 Teacher/Coordinator: Mr Trevor Howells/Program Director Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Assessment: Assignments as determined by Coordinator Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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.

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.

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

ARCH9041 General Elective 3
Credit points: 4 Teacher/Coordinator: Mr Trevor Howells Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Assessment: Assignments as determined by Coordinator Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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.

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.

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

ARCH9042
General Elective 4
Credit points: 4  
Teacher/Coordinator: Mr Trevor Howells  
Session: Semester 1, Semester 2  
Assessment: Assignments as determined by Coordinator  
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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.

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.

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

ARCH9043
General Elective 5
Credit points: 2  
Teacher/Coordinator: Mr Trevor Howells  
Session: S1 Intensive, S2 Intensive  
Semester 1, Semester 2  
Assessment: Assignments as determined by Coordinator  
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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.

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.

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

ARCH9044
General Elective 6
Credit points: 2  
Teacher/Coordinator: Mr Trevor Howells  
Session: Semester 1, Semester 2  
Assessment: Assignments as determined by Coordinator  
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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. 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.

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

ARCH9045
Dissertation 1
Credit points: 12  
Teacher/Coordinator: An academic supervisor is required.  
Discuss with your program coordinator.  
Session: Semester 1, Semester 2  
Classes: Research under academic supervision  
Prerequisites: 48 credit points and a WAM of at least 75  
Corequisites: ARCH9046  
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

ARCH9045 and ARCH9046 Dissertation 1 and 2 are only available to candidates with permission from an appropriate supervisor. Planning students should take PLAN9010 and PLAN9011 Planning Dissertations 1 and 2. Students enrol either full time over one semester (ARCH9045 and ARCH9046) or part time over two semesters (ARCH9045 then ARCH9046). 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.

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. 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 15000 to 25000 words in length. 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. 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. Dissertations are due at the end of the first week of exams for the semester in which you are enrolled for Dissertation 2. The assessment is based solely on the submission of your dissertation. The dissertation is generally marked by two examiners.

**ARCH9046**

**Dissertation 2**

Credit points: 12 Teacher/Coordinator: An academic supervisor is required. Discuss with your program coordinator. Session: Semester 1, Semester 2 Classes: Research under academic supervision. Prerequisites: ARCH9045 Assessment: 15000 to 25000 word dissertation (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day

ARCH9045 and ARCH9046 Dissertation 1 and 2 are only available to candidates with permission from an appropriate supervisor. Planning students should take PLAN9010 and PLAN9011 Planning Dissertations 1 and 2. Students enrol either full time over one semester (ARCH9045 and ARCH9046) or part time over two semesters (ARCH9045 then ARCH9046). 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.

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. 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 15000 to 25000 words in length. 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. 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. Dissertations are due at the end of the first week of exams for the semester in which you are enrolled for Dissertation 2. The assessment is based solely on the submission of your dissertation. The dissertation is generally marked by two examiners.

**ARCH9058**

**General Elective 7**

Credit points: 6 Teacher/Coordinator: Mr Trevor Howells Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Assessment: Assignments as determined by Coordinator Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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

**ARCH9059**

**General Elective 8**

Credit points: 6 Teacher/Coordinator: Mr Trevor Howells Session: S1 Intensive, S2 Intensive, Semester 1, Semester 2 Assessment: Assignments as determined by Coordinator Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol.

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

**ARCH9060**

**Urban Design Report**

Credit points: 12 Teacher/Coordinator: Dr Lee Stickells Session: Semester 1, Semester 2 Classes: Research under academic supervision Prerequisites: 48 credit points including ARCH9001 Prohibitions: ARCH9031, ARCH9045, ARCH9046, PLAN9010, PLAN9011, PLAN9018 Assessment: Urban design report approx 10000 to 15000 words (100%). Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: 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.

The Urban Design Report is a substantial project involving research conducted over one semester. It will usually take the form of an illustrated report (between 10000 and 15000 words) on an approved urban design subject of the student’s choice. The subject may be of a practical bent (e.g. review or preparation of an urban design project) or more theoretical (e.g. review of a conceptual viewpoint), or it may occupy the middle ground (e.g. 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”.

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; conduct such a project in an acceptable investigatory manner; think critically about the subject; identify access and use appropriate and up-to-date information sources, including relevant theory and methods; and present the report, including appropriate illustrations, in a manner that shows both academic and professional competence. The report must demonstrate these features.

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.
The Urban Design report is to be submitted by the end of the first week of the formal examination period for the semester in which the student is enrolled.

ARCH9061
East Asian Arch and Urbanism (Classical)
Credit points: 6 Teacher/Coordinator: Dr Peter Armstrong Session: Semester 2 Classes: 3hrs per week Prohibitions: DESA2003, ARCH6202 Assessment: Attendance (10%); Group Seminar 1 (10%); Group Seminar 2 (10%); Group Seminar 3 (10%); Analytical Model (60%); Practical field work: Investigations, field work. Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This unit is offered in odd numbered years only.

The unit provides an introduction to the urban and architectural traditions of East Asia in the pre-industrial era. Beginning with the classical Chinese concept of cosmos, state and society, the unit examines the development of these concepts and their architectural expression in time and in the context of the cultures of China, Korea and Japan. The development of cities and the full range of building types are traced, with cultural interaction and patterns of influence shown in terms of both architecture and its social context.

On successful completion of the unit of study, students will be able to give a clear picture of the philosophical and cultural foundations of urbanism and architecture in the dominant cultures of East Asia; to elucidate the origins and development of urban form from Chinese models in the context of the development of Japanese, Korean & Vietnamese cultural traditions; to provide an understanding of the design and construction principles of the principal building types of the region within the broad context of the Chinese cultural base of architecture and applied arts; 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.

ARCH9062
Urban Design - Ideas and Methods
Credit points: 6 Teacher/Coordinator: Dr Lee Stickells Session: Semester 1 Classes: Lec 2-3hrs/wk Prohibitions: ARCH8022 Assumed knowledge: Some prior study of architectural, urban or planning history. Assessment: Annotated Bibliography (10%); class presentation (20%); report (70%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit will familiarise students with the main ideas and methods that have influenced urban design practice from the late nineteenth century to the present. It covers the dominant urban design theories, principles, conceptual and physical models, analytical methods and drawings from key contributing authors over the period, and explores critically how and why these arose, their interrelationships, spheres of influence, and continuing validity. In exploring their origins, it necessarily refers back to earlier periods. In this unit, the urban design ‘classics’ (eg Sitte, Le Corbusier, Lynch, Hillier, etc) are presented and discussed critically as history, design sources and tools.

It complements the Urban Morphology unit (ARCH9063) unit, which emphasises the built forms that have resulted in part from the theories and models covered in Ideas and Methods. It is a core unit that supports the Urban Design Studios in the Urban Design programs and an informative elective for students enrolled in or intending to enrol in the Urban Architecture Research Studio.

ARCH9063
Urban Morphology
Credit points: 6 Teacher/Coordinator: Dr Lee Stickells Session: Semester 2 Classes: Lec 2-3hrs/wk Prohibitions: ARCH8021 Assumed knowledge: Some prior study of architectural, urban or planning history. Assessment: Scoping Report (20%), Class Presentation (20%) and Final Report (60%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit outlines the nature of urban morphology, and its rise as an area of study, and explores the evolution of city forms with an emphasis upon urban structure and type. Most designed components of our cities conform in their general characteristics to identifiable types; they reflect the functions of cities, cultural values and the technological, economic and social circumstances of their times. These have been laid down over particular landforms and previous built forms and landscapes to result in usually complex, and often distinct, local characteristics.

The ability to recognize, investigate and respond to these forms and relationships lies at the heart of good 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. It will develop abilities to make more informed ‘readings’ of the urban landscape, and judgments about structure and form in contemporary urban design: retention, modification, replacement, etc. On completion, a student will be better able to: recognize structures and patterns, and key building and spatial typologies that contribute to overall city morphology; record and describe these, investigate and explain their origins, and discuss informatively their place in urban change and contemporary design.

It complements the Urban Design - Ideas and Methods unit (ARCH9062) unit, which emphasises the theories and models underpinning the forms that are covered in this unit. It is a core unit that supports the Urban Design Studios in the Urban Design programs and an informative elective for students enrolled in or intending to enrol in the Urban Architecture Research Studio.

ARCH9064
East Asian Arch & Urbanism (Modern)
This unit of study is not available in 2011
Credit points: 6 Teacher/Coordinator: Mr Barrie Shelton Session: Semester 2 Classes: Two hours lectures per week Prohibitions: ARCH9054 Assessment: Minor assignment, class presentation and major assignment (report) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: 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.

ARCH9073
Architecture Globalisation Urbanisation
Credit points: 6 Teacher/Coordinator: Dr Duanfang Lu Session: Semester 2 Classes: 2 hours per week Assessment: one 3000 word essay (60%), completing weekly readings and class presentation (25%), and participation in class mini conference (15%). Mode of delivery: Normal (lecture/lab/tutorial) Day

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 organisations, local government and the international community.

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; and an increased confidence in working with different design situations.

**ARCH9074 History and Theory of Conservation**

**Credit points:** 6  
**Teacher/Coordinator:** Mr Trevor Howells & others  
**Session:** Semester 2  
**Classes:** Lectures 2 hrs per week  
**Prohibitions:** ARCH9003  
**Assessment:** Written essay assignments (2x50%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

The purpose of this unit is to help student is the intent to develop an appropriate level of knowledge in the development of the ideas and practices of conservation over an historical perspective from Classical times to the present in the Western and Non-Western context. Particular emphasis will be placed on the theoretical ideas and practices of Sir George Gilbert Scott, John Ruskin, the Arts and Crafts Movement, SPAB in England, Eugene Viollet-le-Duc in France. The study of architectural history will provide a broad survey of the development of Western architecture and garden design from the time of the Ancient Egyptians to the present as well as examining in greater detail the development of Australian Architecture from 1788 till the present time.

The principal aims of the unit are to develop an understanding of the history and theoretical basis of the development of the idea and practice of conservation from Classical times to the present. Additional to this another main aim is to develop an understanding of the historical development of Western traditions of architectural and garden design, as well as to develop a sound intellectual basis for the understanding of the theory and practice of current conservation practice in Australia and beyond.

By the end of the unit the student will successfully demonstrate an understanding of the history of the development of Western traditions of architecture and design; and skills in the applying this knowledge in the assessment of cultural significance in the Australian and international context.

**Student workload effort expected:** Class preparation: three hours per week; Assessment preparation 40 hours per semester.

**ARCH9075 New Design in Old Settings**

**Credit points:** 6  
**Teacher/Coordinator:** Mr Trevor Howells  
**Session:** Semester 1  
**Classes:** Lectures 2hrs per week, site visits and seminars  
**Assessment:** Preparation of a Heritage Impact Statement as per guidelines of NSW Heritage Branch - approximately equivalent to 4,000/5,000 word essay (100%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

This unit will cover one of the most fundamental aspects of heritage conservation. Designing infill and additions to historic buildings and precincts are the common practice of architecture throughout time in all cultures. From a multi-disciplinary background this course will aim to develop skills in the assessment of the cultural significance of existing buildings, the impact of new works to the heritage significance of historic buildings in existing contexts, visual and spatial literacy in the design of new fabric in old settings. The course will provide a wide range of examples, including wide international perspective.

The aims of the unit are to develop an understanding of the history of designing and building new buildings in old settings; to develop an understanding of the major theoretical and practical issues of designing new buildings in old settings; to develop an ability to critically assess the appropriateness of the design of the new in the context of the accordingly accepted current conservation practice in Australia.

By the end of the course the student will be able to produce, at a professional level a Heritage Impact Statement as defined by the NSW Heritage Branch.

**ARCH9080 Urban Ecology and Design**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Lee Stickells  
**Session:** Semester 2  
**Classes:** Lectures 1hr per week, seminar/workshops 2 hrs per week  
**Assumed knowledge:** Undergraduate studio experience in design  
**Assessment:** Mini-assignment (20%), PowerPoint presentation or equivalent (20%), Design-related report (60%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

Note: Enrolment in this unit is NOT recommended for students who have completed Urban Environment (PLAN9005) pre 2009)

This unit will develop students' understanding of ecology and the city - of the relationships between ecology, landform, built form and design in the urban context. It will focus on developing knowledge of the ways that urban settings are analysed in the context of ecosystem ecology as well as sensibilities and skills in the representation and interpretation of urban ecological conditions.

The unit seeks to establish ecological thinking as an integral part of urban design and therefore a key factor in the generation of urban form. The unit will emphasise both conceptual knowledge as backcloth and case study projects as example applications (design criteria and frameworks, and designs). The development of appropriate communication skills is important, especially the diagramming of ecological processes and principles for design purposes. The knowledge and skills gained will support the achievement of sustainable solutions through: improved urban layouts, landscape and built forms, and infrastructure; more effective use of energy, water and materials; better systems of waste, transport and habitat management; urban agriculture and biodiversity.

It is a core unit that supports the Urban Design Studios in the Urban Design programs and an informative elective for students enrolled in or intending to enrol in either the Sustainable Architecture Research or Urban Architecture Research Studios

Class preparation, 2 hrs per week, Assessment 2 hrs per wk

**ARCH9081 Heritage Law and Policy**

**Credit points:** 6  
**Teacher/Coordinator:** Mr Trevor Howells  
**Session:** Semester 1  
**Classes:** Lectures 2hrs/week  
**Assessment:** reports (2x50%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

Students completing this unit will be able to undertake heritage studies and assessments, and to prepare instruments and guidelines relating to heritage policies. They will have knowledge of: legislation (international and all levels of government), regulations, planning instruments and policies; registers, inventories and other records of
significant items; roles and procedures of various government agencies involved in heritage and conservation.

The unit will consider a range of heritage issues, for example, ones relating to landscape, streetscape, archaeology, public places etc, besides buildings. It will also cover a range of issues such as: adaptive reuse, modifications for ESD provisions, management of the context of significant items, and the conservation areas.

Students will gain skills in: reviewing legislation, planning instruments and policy documents relating to heritage; preparing basic policies, instruments and related guidelines relating to heritage; critical thinking about heritage issues, and how heritage relate to urban design and planning, ESD and trade-offs with other considerations; reviewing and preparing heritage studies, proposals, management plans, approvals etc.

Assessment will be based on assignments addressing both the context and practice of heritage and conservation planning. The unit will be taught by lectures, with site visits. There will be a component of research-led teaching using projects

Class preparation: 2 hours/week, assessment preparation: 40 hours/semester

ARCH9082
Conservation of Traditional Materials
This unit of study is not available in 2011
Credit points: 6 Teacher/Coordinator: Mr Trevor Howells Session: Semester 2 Classes: Lectures and site visits Assessment: 1x 4000 word essay (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This unit of study is offered in even numbered years only.

The aims of the course are to introduce students to broad range of specialists from the related fields of architectural conservation and related disciplines who specialize in the conservation of traditional building fabric; to introduce students to the appropriate and accepted methods traditional construction and of the conservation traditional architectural materials; and to familiarise students with the relevant literature pertaining to the domain.

The objectives of the course are to allow the student to develop a broad understanding of excellent contemporary conservation practice in the conservation of traditional materials; to develop a broad understanding of traditional building methods; to develop an understanding of good and bad practice in the conservation of traditional materials. Students will be expected to demonstrate the ability to research and prepare academic paper related to the domain.

Lectures: 2 hours/week (11 weeks), site visits; 2hours/week (2 weeks) Class preparation: 1hour/week, assessment preparation: 15-20 hours/semester

ARCH9083
Conservation of Modern Materials
Credit points: 6 Teacher/Coordinator: Mr Trevor Howells and others Session: Semester 2 Classes: Lectures 2 hours/week (11 weeks), site visits: 2hours/week (2 weeks) Assessment: 1x 4000 word essay (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This unit of study is offered in odd numbered years only.

The aims of the course are to introduce students to broad range of specialists from the related fields of architectural conservation and related disciplines that specialize in the conservation of modern building fabric; to introduce students to the appropriate and accepted methods of the conservation modern architectural materials; and to familiarise students with the relevant literature pertaining to the domain.

The objectives of the course are to allow the student to develop a broad understanding of excellent contemporary conservation practice in the conservation of modern materials; to develop a broad understanding of good and bad practice in the conservation of modern materials. Students will be expected to demonstrate the ability to research and prepare academic paper related to the domain.

Class preparation: 1hour /week, assessment preparation: 15-20 hours/semester

ARCH9084
Conservation Design Studio
Credit points: 6 Teacher/Coordinator: Mr Trevor Howells and others Session: Semester 2 Classes: Studio 2 hours/week (10 weeks), Tutorials: 2 hours/week (2 weeks) site visit: 2 hours/week (1week) Corequisites: ARCH9075 (for student with non-design undergraduate degree) Assumed knowledge: BArch, MArch (1 for students pursuing the design stream of this elective) Assessment: For Design-based students submission of a written site analysis (1x Essay 1500-2000 words) and for Non-Design-based students submission of a written site analysis [1x Essay 1500-2000 words] (30%); for Design-based students design proposal and model & Non-Design-based students a Heritage Impact Statement (70%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Master of Heritage Conservation students.

The aim of the course is to form and develop interdisciplinary collaboration in design teams of students design and non-design related backgrounds and to work collaboratively following accepted levels of contemporary architectural and conservation professional practice. Additionally, it is intended that students will develop a critical ability to assess the appropriateness of the design of new additions to existing buildings of recognised heritage value.

The course objective is to analyse a given site with an existing building of identified heritage value and for the design-based students to prepare, with a given brief, a contemporary addition that is both a credible work of contemporary architecture whilst at the same time a sensitive and appropriate addition that respects the cultural significance of the existing building. The non-design based students will accept as heritage consultants, in accordance with best professional practice and concurrently prepare for the proposed design a Heritage Impact Statement that conforms with the NSW Heritage Branch guidelines and standards of practice.

Class preparation: 2 hours/week

DESA9001
Graduate Art Studio (Graphic Design)
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1, Semester 2 Classes: 3hrs per week. Practical studio classes, slide lectures. Prohibitions: AWSIS2016 Assessment: Process Journal and exercises (55%); Studio projects and associated assignments (45%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit; allocation of spare places will be made at the first meeting. Students may incur costs for materials in 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.

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. 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.
DESA9003
Graduate Art Studio (Photography)
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1, Semester 2. Practical studio class, 3hrs per week. Prohibitions: AWSS2023 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 program (15%); creative ideas/images (20%); technical skills (20%); presentation of finished work (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. This practical unit aims to give students an understanding of how photography functions as a contemporary visual medium, including its historical development and its 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 program. 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, landscapes and cityscapes and portraits will be produced. Practical work includes darkroom and studio work and gallery visits.

This successful completion of this unit you will be able to: (1) demonstrate your knowledge of camera operations, film and print developing through darkroom practice and the production of a portfolio of black and white prints; (2) use an understanding of photography practice and theory to inform decision making in your creative process as well as entering into thoughtful debate; (3) reflect on your art practice through class and tutor crit sessions and from this point realistically evaluate your own work; (4) gain an awareness of how photography theory and practice relates your coursework.

Upon completion of 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 practice and furthermore develop your ideas about how these skills may be applied to new situations such as in your coursework program; develop the ability to plan and achieve a goal through a self directed final project.

DESA9004
Art: Materials, Process and Contexts
This unit of study is not available in 2011
Credit points: 6 Teacher/Coordinator: Ms Jan Fieldsend Session: S2 Intensive Classes: Three hours per week. Assessment: Studio projects and associated assignments 100%. Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units. First preference Master of Architecture students. This studio-based unit will address both the practice and the theory of art production. It will be in two parts - a studio section in which each student will under-take a course in art practice in three media areas (for example: digital photography, sculpture and mixed media) and create either individual or collaborative art works; and a theory section in which students will investigate the cross-currents between the different media through reflection, seminars and open jury presentations. The unit will include a gallery visit, review and lectures that will assist participants in their media investigations. The emphasis will be on the relationships between different media and skills (materials and process) and ideas. Contact hours: 3 hours studio (incl. 1 gallery visit) per week per 13 week semester= 39 hours. Class and exhibition preparation, independent study: = 39 hours.

DESA9005
Graduate Art Workshop
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: S1 Intensive, Semester 1, Semester 2 Classes: Three hours per week. Assessment: Portfolio of works and presentation (60%); process journal and associated assignments (40%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Department permission required for enrolment. Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

Students may enrol in art workshop units of study as listed below. These studio-based units provide participants with the opportunity to explore a wide range of art and design practices. An awareness of current ideas and practice in contemporary visual art and design as well as how this knowledge may relate to architectural design is integral to these workshops. At the successful completion of a particular medium students will have: produced a body of work in a particular medium, be able to use an awareness of contemporary art theory and practice to inform decision making in their creative work as well as being able to reflect upon and realistically evaluate their own work. Art workshops on offer are: Screen printing (intensive mode semester 1), Painting or Photography 2 (both available semesters 1 and 2).

DESA9006
Ceramics 2
Credit points: 6 Teacher/Coordinator: Mr Mark Jones Session: Semester 1 Classes: Practical studio classes 3 hours per week. Prerequisites: AWSS2010 or AWSS2011 or equivalent Prohibitions: AWSS2012 Assessment: Attendance, application and participation (marks will be deducted after 1 missed class) graded (20%); from tutor's record: technical development/workshop practice from weekly tasks (30%) (graded); studio journal (20%) (graded); final work's (30%) (graded) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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, hand slab 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 unit 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.

DESA9008
Object Design
Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

In this unit students develop and inter-relate manufacturing and artisan skills with research, analysis and design development. It 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. Sustainibility 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. Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s. Class preparation and assessment 39 hrs per semester face to face teaching.

Student effort expected for an average student to achieve a pass level result:
29 hrs Research/process journal, 6 hrs Gallery visit and written report, 4 hrs presentation of final work to class

DESA9009

Public Art

Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1  Class preparation and assessment: 51 hours per semester

The field of public art is rapidly growing and as such has generated much debate and interest. 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, (e.g. the Vietnam Memorial in Washington and the Sydney Olympic Public Art Projects) and slide lectures will complement the theoretical content of Public Art.

Contact hours: 27 hrs/semester

Student effort expected for an average student to achieve a pass level result: class preparation and assessment: 39 hrs per semester

DESA9010

Painting

Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1, Semester 2  Classes: Three hours per week  Prohibitions: AWSS2022  Assessment: Studio Projects and associated tasks (70%); Research Process Journal (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

This module aims to provide the student with the knowledge 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. Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s.

Class preparation and assessment 39 hrs per semester

Student effort expected for an average student to achieve a pass level result:
29 hrs Research/process journal, 6 hrs Gallery visit and written report, 4 hrs presentation of final work to class

DESA9011

Photography 2

Credit points: 6  Teacher/Coordinator: Mr Mark Jones  Session: Semester 1, Semester 2  Classes: Three hours per week  Prerequisites: AWSS2023 or DESA9003  Prohibitions: AWSS2024  Assessment: Studio Projects and associated tasks (70%); Research Process Journal (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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 that 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. Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s.

Class preparation and assessment 39 hrs per 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

DESA9012

Screen Printing on Paper

This unit of study is not available in 2011

Credit points: 6  Teacher/Coordinator: Ms Jan Fieldsend  Session: S1  Intensive Classes: Three hours per week  Prohibitions: AWSS2026  Assessment: Studio Projects and associated tasks 70% (graded) Research Process Journal 30% (graded) Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building. Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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. Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s.

Class preparation and assessment 39 hrs per semester

97
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

DESA9013
Sculpture
Credit points: 6
Teacher/Coordinator: Mr Mark Jones
Session: Semester 1, Semester 2
Classes: Three hours per week.
Prohibitions: AWSS2027
Assessment: Studio Projects and associated tasks (70%); Research Process Journal (30%)
Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building.
Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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. Students will 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. Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s.

Class preparation and assessment 39 hrs/per semester
Student effort expected for an average student to achieve a pass level result:

29 hrs Research/process journal, 6 hrs Gallery visit and written report, 4 hrs presentation of final work to class

DESA9014
Ceramics (Handbuilding)
Credit points: 6
Teacher/Coordinator: Mr Mark Jones
Session: Semester 1
Classes: Three hours per week.
Prohibitions: AWSS2010
Assessment: Studio Projects and associated tasks (70%); Research Process Journal (30%)
Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building.
Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

This practical unit aims to give students the understanding to create hand built 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 hand built 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. Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s.

Class preparation and assessment 39 hrs/per 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

DESA9015
Site Specific Art
Credit points: 6
Teacher/Coordinator: Mr Mark Jones
Session: Semester 2
Classes: Three hours per week.
Assessment: Studio Projects and associated tasks (70%); Research Process Journal (30%)
Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Please seek permission from the Tin Sheds Gallery, Wilkinson Building.
Attendance at the first class is compulsory to maintain your place in the unit: allocation of spare places will be made at the first meeting. Students may incur costs for materials in some Art Workshops units.

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 gain experience in ways of selecting and analysing sites for the purposes of incorporation into artwork. Students begin to develop an individual art practice through using a wide range of materials to make temporary site-specific artworks and also begin to develop ways of analysing and evaluating site-specific artworks through directed group discussions.

Students will be expected to produce a research process journal and report on how a particular artist/s or art movement has informed or influenced their final project/s.

Class preparation and assessment 39 hrs/per 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

DESA9011
Audio Production
Credit points: 6
Teacher/Coordinator: Dr Densil Cabrera
Session: Semester 1, Semester 2
Classes: Three hours per week lectures and studio work
Assessment: A project and accompanying report (100%)
Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful please contact the Faculty of Architecture Student Administration Centre.

The practice of audio production is a form of constructing discourse, with its own poetics i.e. 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 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.

Students will achieve a basic familiarity and proficiency with mixing consoles, the fundamentals of multi track recording and digital editing; demonstrate an ability to communicate their ideas, and articulate the reasons for their choices of production methods; and work successfully within a group dynamic.

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.

Students are expected to: participate in the workshops; complete class exercises/constructions; read additional materials to discuss in classes; submit a script, composition or otherwise detailed proposal for recording and postproduction with detailed raison d’être of production values; 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.
DESC9014
Building Construction Technology
Credit points: 6
Teacher/Coordinator: Dr David Leifer
Session: S1 Intensive
Classes: 3 hours per week
Assessment: Two assignments (40%, 60%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit covers three related areas of investigation: basic building construction practices, advanced building construction practices & sustainable construction.

It begins by introducing a number of recurrent themes in construction in Australia at the present time including the idea of building culture, the various modes of delivery and variety of classifications of buildings and building elements, rational construction & construction detailing from first principles.

There follows a review of construction techniques of domestic scaled buildings using, where appropriate, examples of well documented and/or accessible exemplars.

The second part of the unit reviews current approaches to building technologies employed in more complex public and commercial scaled buildings, particularly with regard to processes of structural system selection, façade systems design and construction and material performance. The fundamentals of heat transfer and effects of external conditions on indoor comfort, aspects of the BCA and integration of services into the building fabric relevant to building services engineers will also be reviewed. Again, accessible exemplars will be covered.

Finally the unit will review current issues related to key attributes of buildings which make them sustainable, particularly with regard to material selection, appropriate detailing for energy and resources conservation and building reuse and recycling.

DESC9015
Building Energy Analysis
Credit points: 6
Teacher/Coordinator: Prof Richard Hyde
Session: S2 Intensive
Classes: five day intensive (9am-5pm)
Assessment: 3 assignments (100%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of the unit is 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.

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.

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.

DESC9040
Electrical Services
Credit points: 6
Teacher/Coordinator: Dr David Leifer
Session: S1 Late Int
Classes: 5 day intensive (9am-5pm)
Assessment: Three assignments (2x30%, 40%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of this unit is 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.

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 unit 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.

By the conclusion of the unit 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.

DESC9042
Electrics Electronics & Electroacoustics
Credit points: 6
Teacher/Coordinator: Assoc Prof William Martens/Mr Ken Stewart
Session: Semester 1 Classes: 3 hrs per week lectures and lab
Assessment: Written assignments (50%); practical tests (50%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of the unit is 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.

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.

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.
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 organisations and how the facility assists (or hinders) it achieving its goals. Explaining this understanding is the subject of the first Coursework assignment.

In this first half of the unit we will examine the purpose of ‘organisations’ and their ‘facilities’ and how they assist organisations to meet their goals. This includes examination of facilities and how their performance is measured. 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 potential improvement of the performance in terms of their contribution to the user organisation’s mission. In this regard, occupational health and safety issues are germane. The second coursework assignment will require attendees to consider the means to measure the performance of facilities in order to relate them to corporate purpose.

Textbooks

DESC9048 Operational Facility Management
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S2 Intensive Classes: 5 day intensive (9am-5pm) Assessment: Two assignments (2x40%); presentation (10%); participation (10%) Mode of delivery: Block Mode

Operational Facilities Management is a service industry concerned with the day-to-day operations required to run an organisations facilities. Primarily facility operation has to satisfy the user organisation's statutory responsibilities. Beyond that, whilst some major costs (such as Rates, Land Taxes, Insurance premiums etc.) are fixed other costs are amenable to management. Operational Management necessarily requires those charged with the task to evaluate where their effort is spent and where the significant resourcing costs lie, thus allowing them to prioritise and match their effort to the effect. This unit will involve considerations of subcontracting. And examine ‘best practice’ guidelines for both hard and soft service provision.

DESC9049 Financial Decision Making
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S1 Late Int Classes: 4 day intensive (9am-5pm) Assessment: Two group assignments (2x50%) Mode of delivery: Block Mode

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 involves the financial and accounting information systems of the organisation, and the ‘tools’ necessary to extract information in order to make informed decisions. The unit is in two halves: The first deals with management accounting. Students will learn how to interpret the standard historical information regarding organisations via the balance sheet, profit and 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. The second half examines cost accounting, ie, the internal generation and flow of management information for financial control. 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.

DESC9050 Fire Protection Services
This unit of study is not available in 2011
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S2 Intensive Classes: Lectures and computer laboratory. Assessment: Two assignments, 50% each. Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: 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. Outcomes: it is expected that students will complete the unit with sufficient knowledge to be able to design fire hydrant and hoses reel, 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.

DESC9059 Hydraulic Services
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S2 Late Int Classes: Intensive Assessment: Assignment (100%) Mode of delivery: Block Mode

Presents principles, concepts assumptions, rules and regulations required for the analysis and design of hot and cold water supply systems, and stormwater drainage systems, including stormwater retention systems and systems for piped gases for commercial and industrial buildings.

DESC9067 Mechanical Services
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S2 Late Int Classes: 6 day intensive (9am-5pm) Assessment: One Assignment (80%); Participation (10%) Mode of delivery: Block Mode

This unit reviews the need for and application of Mechanical Services in commercial buildings. 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 diplomas in mechanical engineering and an understanding of fundamental principles and practice for people from backgrounds other than mechanical engineering. Students will acquire skills in estimating ventilation, cooling and heating requirements, design of simple ventilation, air conditioning and smoke hazard management systems, including overview of water, refrigerant, ducted systems, with applicable equipment, energy, noise, human comfort, air quality criteria. Principals of heat transfer and fluid flow are applied to applications of mechanical ventilation, air conditioning and smoke hazard management, to satisfy regulations and standards, occupant and community expectations. The practical basis of programme leads to a design assignment involving selecting equipment and systems to provide mechanical services in a building.

DESC9071 Organisational Analysis and Behaviour
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S1 Late Int Classes: 4 day intensive (9am-5pm) Assessment: Two assignments (2x50%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Organisations exist because individuals can achieve far more when they work together than they can singly. However, management
attempts to subordinate individuals’ motivations 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; organisational management; industrial relations.

Textbooks

DESC9073
Computer Simulations in Buildings 1
This unit of study is not available in 2011
Credit points: 6
Teacher/Coordinator: Dr David Gunaratnam & Dr Daniel Ryan
Session: Semester 1 Classes: Three hours per week, lectures/computer labs
Assumed knowledge: Undergraduate Architecture, Design Computing or Engineering degree
Assessment: Three assignments - 30%, 30% & 40%
Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit aims to introduce students to the theoretical bases for the current research approaches, established techniques and computational tools available for simulation and optimisation during the operational phases of a building project. At the completion of the unit each student is expected to have demonstrated through the assessment tasks: a good understanding of the theoretical bases for both the simulation and strategic decision models; an ability to arrive at optimum decisions for construction scheduling and the management of the facilities by selecting and using the appropriate quantitative and qualitative tools; and an ability to develop simulation and optimization models for applications within their area of interest. Student workload effort expected: Contact hours three hours per week; class preparation 1 hour per week; assessment preparation 39 hours per semester.

DESC9074
Project Management
Credit points: 6
Teacher/Coordinator: Dr David Leifer
Session: S2 Intensive Classes: 4 day intensive (9am-5pm)
Assessment: Two assignments (2x50%)
Mode of delivery: Block Mode

Project Management is specific form of establishing, programming, and coordinating an activity having a specific start point and end point. This body of knowledge as for example in the Project Management Book of Knowledge (PMBOK)-needs to be understood in general terms. Initially project managers must identify and define the services that are needed, (scope) and that their employers are willing to endorse. The activities requiring to be carried out need to be sorted and sequenced; the materials labour and plant required need to be estimated and procured. Projects involve the management of information, and communications. 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.

Textbooks

DESC9075
Computer Simulations in Buildings 2
This unit of study is not available in 2011
Credit points: 6
Teacher/Coordinator: Dr David Gunaratnam & Prof Richard Hyde
Session: Semester 2 Classes: Three hours per week, lectures/computer labs
Assumed knowledge: Undergraduate Architecture, Design Computing or Engineering degree
Assessment: Three assignments - 30%, 30% & 40%
Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit aims to build on previous unit, and introduces students to the theoretical bases for the current research approaches, established techniques and computational tools available for simulation and optimisation during the construction and subsequent management phases within the building life cycle. It investigates a number of simulation, optimisation and strategic decision making models applicable to these phases, including those based on system dynamics, discrete event simulation and computational intelligence. It explores tools and techniques available for planning and scheduling such as 4D CAD, the use of simulation tools for the design process in making management decisions during the operational phase and the use of these tools for management of risk during both phases. It also provides hands-on experience in the use of these techniques and tools for making management decisions during the constructional and operational phases of a building project. At the completion of the unit each student is expected to have demonstrated through the assessment tasks: a good understanding of the theoretical bases for both the simulation and strategic decision models; an ability to arrive at optimum decisions for construction scheduling and the management of the facilities by selecting and using the appropriate quantitative and qualitative tools; and an ability to develop simulation and optimization models for applications within their area of interest. Student workload effort expected: Contact hours three hours per week; class preparation 1 hour per week; assessment preparation 39 hours per semester.

DESC9090
Audio Systems and Measurement
Credit points: 6
Teacher/Coordinator: Assoc Prof William Martens
Session: Semester 2 Classes: 10 x 3-hour lectures, 3x 3-hour labs (and continued lab projects)
Assumed knowledge: DESC9138 Assessment: 1x1200 word report (35%) 1x2000 word report (50%), participation (15%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

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 unit content to new situations.

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.

DESC9092
3D Animation 1
This unit of study is not available in 2011
Credit points: 6
Session: Semester 1, Semester 2 Classes: Three hours computer lab per week.
Prerequisites: DESC9019 Prohibitions: DECO3006
Assessment: assessable class tutorials and stage submissions of the final project involving design and implementation of animation.
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to students in the Design Computing or Digital Media stream. This unit will only run in semester 2 subject to demand. 2009 is the final year of offer for this unit.
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 utilises 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 involved in the development and implementation of an animated sequence in a 3-dimensional environment.

DESC9111
Energy Management in Buildings
Credit points: 6  Teacher/Coordinator: Dr David Leifer  Session: S1 Intensive, S2 Intensive  Classes: 6 day intensive (9am-5pm)  Assessment: Two assignments (2x45%); presentation (10%)  Mode of delivery: Block Mode
Note: Masters candidates must complete this unit in their final semester.

The objectives of this unit are to give students an understanding of energy consumption issues in buildings through both design and through operation and to give students an awareness of energy auditing, and current energy conservation techniques.

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 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.

Textbooks

DESC9115
Digital Audio Systems
Credit points: 6  Teacher/Coordinator: Assoc Prof William Martens  Session: Semester 1  Classes: Ten lectures (3 hours each) Three laboratory sessions (3 hours each)  Assessment: Three assignments (70%); Three laboratory reports (30%). Practical field work: Practical exercises include programming a DSP chip in assembly language to perform real-time audio effects and the use of high-level software packages to generate, manipulate and analyse sounds.

Mode of delivery: Normal (lecture/lab/tutorial)  Day
Note: Permission required unless enrolled in the Audio stream. Enrolment numbers are limited by teaching resources.

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.

This unit offers a systematic approach to understanding digital audio systems. Beginning with basic principles the unit 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 and DVD), magnetic storage (DAT and disks) and transmission formats (AES/EBU, SPDIF etc).

Having successfully completed this unit 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.

DESC9116
Loudspeaker Design
Credit points: 6  Teacher/Coordinator: Dr Densil Cabrera /Mr Neville Theile  Session: Semester 2  Classes: 3x3hr lectures/week.  Assessment: Three exercise-based assignments (2x33%, 34%)  Mode of delivery: Normal (lecture/lab/tutorial)  Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to Audio and Acoustics students.

This unit aims to give students thorough understanding of the structure of a loudspeaker, its mechanical, electrical and acoustical properties, the conceptual tools for designing the various components that comprise a loudspeaker system, the effective use of these tools and the influence on the performance of loudspeaker systems of the acoustic environments in which they operate.

Material covered: loudspeaker drivers: construction & sources of non-linearity (i.e. distortion); electrical & acoustical concepts; electrical equivalents of acoustical circuits; transfer functions: thelele/small parameters; closed-box loudspeakers: box volume vs. parameters & disadvantages: factorisation of transfer functions: equalisation;band-pass sub-woofers; horns; cables; the listening room & positioning of loudspeakers; subjective testing.

On completing the unit, students should be able to design loudspeaker systems, assess the qualities of existing systems that they encounter and estimate their appropriateness to the intended application.

DESC9117
Sound Design for New Media
Credit points: 6  Teacher/Coordinator: Assoc Prof William Martens, Mr Michael Bates  Session: S2 Intensive  Classes: 3x3hr lectures/week.  Assessment: Proposal Presentation and 1 x 1000 word written (20%), Final Project (40%)

The objectives of this unit are to introduce essential sound design concepts including editing, synchronisation, rhythm and audiovisual 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 broadcasting production antecedents on the design language; to learn skills in track-laying, 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; to learn essential post-production skills in computer-based sound design in a studio environment.

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.

At the completion of this unit students will be expected to: understand the aural medium, essential concepts and terms; have an overview of film 'factories', radio and television 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 mixing techniques, post-synchronisation dialogue, editing dialogue, producing sound effects, multi-track laying, selecting music, creating atmospheres and various psychoacoustic effects, synchronisation and related issues, and mixing sound for vision.

DESC9133
Architectural Acoustics Practice
Credit points: 6 Teacher/Coordinator: Dr Densil Cabrera /Rob Bullen
Session: Semester 2 Classes: 3x3hr lectures/week. Assumed knowledge: DESC9138 Assessment: Two projects - one theoretical report 2000 words (50%) and one practical report 1500 words (50%). Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit will cover a range of theoretical, practical and professional issues in architectural acoustics. 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.

By the completion of this unit 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.

DESC9134
Audio and Acoustics Seminar
Credit points: 6 Teacher/Coordinator: Dr Densil Cabrera Session: Semester 1 Classes: 1 hour seminar and individual supervision x 13 weeks Prerequisites: DESC9090 or DESC9133 Assumed knowledge: DESC9138 and DESC9011 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 (100%). Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit introduces students to a broad range of current research in audio and acoustics, and gives them experience in research. It consists of 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.

By completing this unit students will gain an 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.

DESC9135
Digital Audio Production with ProTools
Credit points: 6 Teacher/Coordinator: Dr Densil Cabrera Session: S1 Late Int Classes: Lectures held as intensive weekend course (5 days 9am-5pm) with computer laboratory sessions. Assessment: Written project proposal demonstrating further research and comprehension of conceptual aspects of the production process, class presentation and project (100%). Mode of delivery: Block Mode

Note: Permission required unless enrolled in the Audio and Acoustics stream. Enrolment numbers are limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

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.

This unit 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 by way of lectures, practical demonstrations and individual or small-group practical work, both in-class and by assignments.

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 data management and archiving.

DESC9136
Music Technologies
Credit points: 8 Teacher/Coordinator: Assoc Prof William Martens/Mr Michael Bates Session: Semester 2 Classes: 3 hours per week lectures/seminars Assessment: Class attendance and participation (20%), 2 x Class exercises (10%), Media Review (30%), Final Project (40%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. First preference to students in the Audio stream. If your attempt to enrol online is unsuccessful please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

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.

A range of concepts and practices will be examined including: the implications of non-linear recording technologies on music composition, sound design and studio production practices; music production for the internet; interactive and intelligent computer-music systems; virtual musical instrument design; and computer music programming.

Content covered: 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 for new media.

By completing the unit 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 unit will be applicable to a wide range of music and audio production contexts including film, video and new media.

DESC9137
Spatial Audio
Credit points: 6 Teacher/Coordinator: Assoc Prof William Martens Session: Semester 1 Classes: 13 x 3 lecture/seminars Assumed knowledge: DESC9138 and DESC9011 Assessment: 1x1000 word project proposal (10%) 1x2000 word review (20%), review presentation (20%), final project (40%), participation (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

Unit 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.
By completing this unit 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.

**DESC9138 Architectural and Audio Acoustics**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Densil Cabrera  
**Session:** Semester 1  
**Classes:** Three hours lecture per week  
**Assessment:** two exercise based assignments (2x50%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

This unit will introduce the fundamental concepts and issues of audio and architectural acoustics. Unit 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.

By completing this unit 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.

**DESC9145 Sustaining the Built Environment**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Richard Hyde  
**Session:** S1  
**Intensive Classes:** 5 day intensive (9am-5pm)  
**Assessment:** Written assignments (100%)  
**Mode of delivery:** Block Mode  
**Note:** Department permission required for enrolment. Note: Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

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.

Unit 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.

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 unit material. The unit will broaden students understanding of the significance of sustainable architectural practice and planning upon creating a sustainable future built environment.

**DESC9146 Climate, Comfort and Sustainable Design**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Richard de Dear  
**Session:** S1  
**Late Int Classes:** 5 day intensive (9am-5pm)  
**Assessment:** Written assignment and project (100%)  
**Mode of delivery:** Block Mode  
**Note:** Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

The aims of this unit are 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.

Unit content: (1) Climate: the meaning of the concept of climate; the elements of climate; solar energy, the atmosphere, longwave radiation, the season 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. (2) 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. (4) Buildings as environmental filter.

At the conclusion of this unit 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.

**DESC9147 Sustainable Building Design Principles**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Richard Hyde and Prof Richard de Dear  
**Session:** S2  
**Intensive Classes:** 5 day intensive (9am-5pm)  
**Assessment:** Written assignment and project (100%)  
**Mode of delivery:** Block Mode  
**Note:** Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

The aims of this unit are 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.

Unit 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.

By the completion of the unit 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.

**DESC9148 Sustainable Building Design Practice**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Richard Hyde and Prof Richard de Dear  
**Session:** S2  
**Intensive Classes:** 5 day intensive (9am-5pm)  
**Assessment:** Written assignment and project (100%)  
**Mode of delivery:** Block Mode  
**Note:** Enrolment numbers limited by teaching resources. First preference to Sustainable Design students. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

The aims of this unit are 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.

Unit 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; expressing the values of sustainability in built form; towards a new sustainable design paradigm.

By the completion of the unit 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 their impact upon future design practice.

DESC9150 Sustainability Research Project
Credit points: 6
Teacher/Coordinator: Prof Richard de Dear
Session: Semester 1, Semester 2
Classes: Project work - private study
Assessment: Project (100%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit will provide an opportunity for students to undertake supervised research on a topic related to Sustainable Design through 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.

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.

DESC9151 Introduction to Building Services
Credit points: 6
Teacher/Coordinator: Dr David Leifer
Session: S1 Intensive
Classes: 5 day intensive (9am-5pm)
Assessment: 2 Assignments (2x45%); Presentation (10%)
Mode of delivery: Block Mode
Note: Students with the relevant building services background may apply for a waiver.

The objective of this unit is 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.

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; hydraulic systems; fire services; electrical services, lighting, security systems.

DESC9152 Lighting Design Masterclass
This unit of study is not available in 2011

Credit points: 6
Teacher/Coordinator: Prof Warren Julian/Assoc Prof Alex Shepherd
Session: S1 Intensive
Classes: Intensive studios
Assumed knowledge: Lighting design fundamentals
Mode of delivery: Block Mode
Note: This unit of study is offered in even numbered years only.

This is 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.

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.

DESC9153 Graduate Internship
Credit points: 6
Teacher/Coordinator: Mr Trevor Howells
Session: Semester 1, Semester 2
Classes: Fieldwork
Assessment: Log book signed by practice supervisor and 2000 word report on the benefits of the internship (100%); pass/fail only
Mode of delivery: Professional Practice

Note: Department permission required for enrolment. Note: Masters students only. Graduate Diploma students with permission of the Program Coordinator. Credit will not be granted for this unit of study.

The aims of the internship are 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 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 their Program as it is practiced, and to establish connections between practice and the development of relevant research programs.

The internship is intended to provide the opportunity for students to work in various situations in their Program's area. A secondary intention is that students use the opportunities of placement to broaden their own experience beyond the limitations of their chosen discipline. Candidates must find a suitable professional placement. Permission to enrol is given after the proposed placement has been approved by the Program Coordinator. The host organisation will nominate a supervisor for the student for the internship. The student must complete at least 120 hours of full or part-time experience, supervised by a practicing designer (or other professional depending upon the field). A log-book of each day's work, signed by the supervisor must be submitted on completion. A 2000 word report on the benefits of the internship must also be produced.

At the end of the internship the student will: demonstrate that they have completed a program of work (through a log-book); present a report; analyse their experiences and compare these to the theoretical content of the units they have completed, and suggest appropriate research directions so as to improve the complementarity of theory to practice.

DESC9154 Lighting Design Software
This unit of study is not available in 2011

Credit points: 6
Teacher/Coordinator: Prof Warren Julian/Assoc Prof Alex Shepherd
Session: S1 Intensive
Classes: Intensive
Prerequisites: 24 credit points
Assumed knowledge: Lighting design fundamentals
Assessment: Four assignments of equal value
Mode of delivery: Block Mode
Note: Graduate Diploma or Masters only. This unit of study is offered in even numbered years only.

Students will 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.
DESC9160 Photography
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S1 Late Int Classes: four day intensive (9am-5pm) Assessment: Project (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This unit of study is offered in odd numbered years only. Available to Graduate Diploma and Masters students only.

This unit introduces light photography by considering the principles of photography; issues in architectural photography and how lighting can be photographed. The photography of interior and exterior lighting is covered, including landscape and floodlighting.

Upon successful completion of this unit the student will be able to photograph interior and exterior lighting.

DESC9161 Theatre and Performance Lighting
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S2 Late Int Classes: theatre workshops/ five day intensive (9am-5pm) Assumed knowledge: fundamentals of lighting. Assessment: Preparation of a lighting design for a performance (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This unit of study is offered in odd numbered years only. Available to Graduate Diploma and Masters students only.

The unit is targeted at people interested in lighting design for theatre and other entertainment applications, to gain an insight into "theatre" lighting design as well as a working understanding of the associated technical elements of theatre lighting. The unit covers not only theatre lighting design techniques, but also other "event" lighting design from small low budget to large scale performances.

The unit of study has practical "hands on" workshops where students are expected to participate. Workshops include, rigging, focusing and plotting for scenes in a stage, DMX addressing, data system layout for use with moving lights and programming moving lights for theatre and other events.

By completion of this unit the student will gain practical "hands on" experience of theatre lighting by participating in workshops on rigging, focusing and plotting for scenes in a stage, DMX addressing, data system layout for use with moving lights and programming moving lights for theatre and other events.

DESC9164 Light Sources and Luminaires
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S2 Intensive Classes: Lectures and demonstrations in four day intensive mode (9am-5pm) Prerequisites: DESC9072 or DESC9166 Prohibitions: DESC9063 Assessment: Two assignments (2x50%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This unit of study is offered in odd numbered years only.

The objectives of this unit are to understand the major light source families; the performance properties of lamps; the various methods of light control; and the design, testing and manufacture of luminaires.

The various methods employed in the production of light and the performance criteria applied to the sources are discussed. Topics covered include: a historical outline of the development of sources; the practical requirements of light sources; black-body radiation; the sun; the sky; gaseous discharges; electro-luminescence; chemiluminescence; incandescent lamps; the halogen cycle; fluorescence; tubular fluorescent lamps; various high pressure and low pressure discharge lamps. Practical lamps are discussed in terms of luminous efficacy, spectral output, colour rendering, life, supply requirements, control gear, cost, etc.

The design, manufacture, testing and the provision of data on luminaires are discussed. Topics covered include: the requirements of luminaires; methods of light control; the properties of optical systems; refractors; reflectors and diffusers; luminance control techniques; manufacture of luminaires and auxiliaries; codes and provision of photometric data for indoor and outdoor luminaires; the calculation of utilisation factors; luminaire luminances; computerised testing; machine readable photometric data.

Laboratory exercises will demonstrate some lamp characteristics and luminaires are photometered and photometric data calculated.

Upon successful completion of this unit the student will know the bases of light production and the characteristics of practical lamps, how luminaires operate, how to design reflector systems and relevant safety and other standards. Students will discover some of the outcomes through laboratory exercises and will demonstrate them in the assignments and examination.

DESC9165 Lighting Design
This unit of study is not available in 2011
Credit points: 12 Teacher/Coordinator: Prof Warren Julian/Assoc Prof Alex Shepherd Session: S1 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). Mode of delivery: Block Mode
Note: Department permission required for enrolment. Note: 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.

DESC9166 Photo & Colorimetric Concepts & Mensuration
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S1 Intensive Classes: Lectures and laboratory classes in four day intensive mode (9am-5pm) Prerequisites: DESC9072 Assessment: two assignments (2x25%); two laboratories (2x25%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This unit of study is offered in odd numbered years only.

The objective of this unit is to understand the basic photometric and colorimetric terms, quantities and relationships and be able to apply these in practical and theoretical situations.

This unit introduces the rational system of measurement of lighting qualities and provides the bases for photometric and colorimetric calculations. Topics include: the development of the system of measurement of luminous flux; luminous intensity; illuminance; luminance; reflectance; luminance factor; transmittance; mention of refraction, diffraction and reflection laws; relationships between luminous qualities; basic calculations involved with diffuse surfaces; inverse square law; cosine law; interreflections; Munsell Colour System; CIE Colour System; graphical representation of photometric...
data; measuring instruments; accuracy; repeatability; colorimetric calculations (chromaticity coordinates Xy, L’A’B’, Luv, correlated colour temperature, colour rendering indices); the integrating sphere; gonio photometry; distribution photometry. Various measurement and calculation techniques are applied in the laboratory exercises which support the unit.

Upon successful completion of this unit the student will know the basic photometric and colorimetric systems used in Australian and other national and international standards.

Students will discover some of the outcomes through laboratory exercises and will demonstrate them in the assignments and examination.

DESC9167
Vision and Visual Perception
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S1 Intensive Classes: Lectures in four day intensive mode (9am-5pm) Prohibitions: DESC9085 Assessment: 2 assignments (33.33%) and (66.67%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The objective of this unit is to introduce the student to the processes involved in seeing and the perception and appreciation of the luminous environment.

This unit is an introduction to the science and art of illumination, examining how individuals maintain contact with and gather information about their environment via their sensory systems, and how this information is dealt with by the brain to create complex perception and awareness of the environment. After a brief general overview of human sensory systems the physiological and psychological processes in seeing are discussed. Topics covered are: the dual nature of light; the physiology of the eye and its musculature; light detection; the visual anomalies; contrast sensitivity; colour vision; adaptation; brightness and lightness. The processes involved in image detection and recognition are discussed including: edge detection; lightness determination; the association of the characteristics of patterns; camouflage; stereopsis; the importance of the visual attributes of tasks, such as alphabets; expectation. Some of the characteristics of seeing are explored in the laboratory, particularly the size-contrast-luminance relationship.

At the conclusion of the unit the student will have a knowledge of the anatomy, physiology and neurology of the visual system related to sight, including anomalies and age-related effects; the processes involved in vision; the distinguishing features of seeing; the physical, psychological and psychophysical processes involved in image detection, figure-ground, colour, form, texture and appreciation. The assignments will allow the student to demonstrate the achievement of this knowledge some of the work is related to their private environments.

DESC9168
The Visual Field and Human Factors
Credit points: 6 Teacher/Coordinator: Prof Warren Julian Session: S2 Intensive Classes: Lectures and laboratory exercises in four day intensive mode (9am-5pm) Prerequisites: DESC9085 or DESC9167 Prohibitions: DESC9086 Assessment: Two assignments (2x25%) and two labs (2x25%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The objective of this unit is to show the basis for the standards and practices used in lighting analysis and design.

This unit will develop material dealt with in the unit Vision and Visual Perception to examine full-field vision and the human factors involved in lighting the visual field. Topics covered include: the definition of the visual field with regard to size, luminance, contrast and time; the extension of threshold studies to practical task situations; the evaluation of visual tasks with regard to difficulty and complexity; the development of measures of discomfort and disability glare; the illuminance and glare scales used in practical standards; methods for the assessment of tasks and environments; experimental techniques of evaluation, such as multi-dimensional scaling; Laboratory exercises on the assessment of environments in physical and psychophysical terms are used to support the lectures and demonstrations.

At the conclusion of the unit the student will know the bases of the light-technical recommendations in Australian and other national and international standards. They will discover some through laboratory exercises and will demonstrate them in the assignments and examination.

DESC9169
Daylight in Buildings
Credit points: 6 Teacher/Coordinator: Prof Warren Julian/Assoc Prof Alex Shepherd Session: S1 Late Int Classes: Lectures in four day intensive mode (9am-5pm) Prohibitions: DESC9106 Assessment: Assignment (30%), Assignment (70%) Mode of delivery: Block Mode

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; and 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; and economics of daylight including electric light supplementation.

DESC9172
Building Asset Management
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S2 Intensive Classes: 5 day intensive (9am-5pm) Assessment: Two assignments (2x50%) Mode of delivery: Block Mode

This unit will examine the objectives of both private and public mass rental housing providers and consider the role that the built assets play. Buildings per se are a means to an end, as well as a ‘product’ in their own right. They involve a very large capital commitment, thus represent a large proportion of the owners asset base. The assets suffer degradation from wear and tear over time that needs to be controlled. 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 will be considered. The role of Asset Registration, Condition Registration and Maintenance Schedules will be studied. Successful students will be able to structure and implement Management Information Systems from asset registration through condition and maintenance schedules, and be able to demonstrate 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 building at an appropriate level.

Student effort expected: contact hours: 24 hours per semester; class preparation: 8 hours per semester; assessment preparation: 46 hours per semester.

DESC9183
Risk Management
Credit points: 6 Teacher/Coordinator: Dr David Leifer Session: S2 Intensive Classes: 4 day intensive (9am-5pm) Assumed knowledge: DESC9047 Assessment: Two assignments, the first being formative, the second summative (2x50%) Mode of delivery: Block Mode

At the end of the unit successful students will: have an ability to undertake a risk identification study to AS4360:2004; 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 mitigation strategy. The major area of the unit covers O’H&S. This requires the student to understand the policies and processes that their organisation need to put in place to satisfy the legislation.
Upon completing this unit, 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; understand the process for assessing risk in terms of 'best practice'; demonstrate their ability to present appropriate risk management options; be aware of the Occupational Health and Safety regulations and will understand the impact of these on their workplaces; and be able to implement OH&S management procedures.

Student workload effort expected: contact hours: 24 hrs in intensive mode; class preparation: 16 hours per semester; assessment preparation: 56 hours per semester.

**DESC9185 Structural Synthesis Models**

This unit of study is not available in 2011

Credit points: 6

**Teacher/Coordinator:** Dr David Gunaratnam

**Session:** Semester 1

**Classes:** One hour lecture and two hours computer lab per week.

**Assessment:** Three assignments

**Mode of delivery:** Normal (lecture/lab/tutorial) Day

The main aim of the unit is to introduce students to a number of structural synthesis models currently available for generating structural solutions within the design process, including both top down and bottom up generative processes, as well as those inspired by processes in nature. The unit is also designed to provide information for evaluating the solutions generated by the models, for feasibility based on behavioural requirements, for performance based on the key decision criteria, and for classifying the solutions into appropriate structural categories.

At the completion of the unit each student is expected to have demonstrated through the assessment tasks: a good understanding of the different structural synthesis models available for use within the design process; the ability to use one or more of the models for generating feasible and optimal structural solutions; the ability to use the behavioural and synthesis models to evaluate an existing building for feasibility and structural performance; the ability to associate the different structural features of existing building designs to the structural design criteria and constraints.

Contribution of unit of study to its program: Core unit for the Building Stream.

Student workload effort expected: contact hours 3 hours per week; class preparation 1 hour per week; assessment preparation 39 hours per semester

**DESC9191 Building Acoustics and Noise Control**

Credit points: 6

**Teacher/Coordinator:** Dr Densil Cabrera

**Session:** S1 Late

**Int Classes:** Five days intensive: lectures 9am-1pm and 1:45pm-5pm each day

**Assumed knowledge:** Undergraduate architecture or engineering degree.

**Assessment:** One technical project-based assignment (100%)

**Mode of delivery:** Block Mode

This unit investigates the attenuation and control of noise generated by mechanical building services systems. This will impart in students an understanding of the basics of sound transmission; sound pressure and power; and the fundamentals of the human auditory response. Students will further have an awareness of the statutory noise control requirements, current standards and sources of data. Moreover, students will obtain an ability in design and selection of acoustic treatment methods to meet those statutory requirements.

At the successful completion of this Unit students will have an awareness of the statutory noise control requirements, current standards and sources of data; an understanding of the fundamentals of the basics of sound transmission; sound pressure and power; and human auditory response; and an ability in design and selection of acoustic treatment methods to meet those statutory requirements.

**DESC9192 Energy Code Compliance in Buildings**

Credit points: 6

**Teacher/Coordinator:** Dr David Leifer

**Session:** S2 Late Int

**Classes:** six day intensive (9am-5pm)

**Assumed knowledge:** Undergraduate architecture or engineering degree.

**Assessment:** One Assignment (100%)

**Mode of delivery:** Block Mode

The aim of this 6 day intensive is to provide the students with the knowledge to prepare a BCA Section J - JV3 modeling exercise suitable for presentation to a principal certifying authority thus demonstrating building compliance.

Students will explore the BCA procedure and sections dealing with alternative solutions, deemed-to-satisfy prescription, verification methods, specifications, and also utilize the GREENSTAR and NABERS Energy computer programmes.

**DESC9193 History of Sustainable Building Design**

Credit points: 6

**Teacher/Coordinator:** Dr Estelle Lazer

**Session:** Semester 2

**Classes:** Online

**Assessment:** Student presentation (25%); Essay - case study research (50%)

**Mode of delivery:** On-line

This is a research led, cross disciplinary course, which synthesises archaeological and building science approaches. The course examines how people from different eras and cultures have responded to the need to construct the built environment in the context of the often conflicting requirements of comfort, health, energy usage and the supply of resources. Case studies from the Classical, Renaissance and early Modern periods, will be used to consider various topics, including: energy usage and efficiency, materials and construction, thermal comfort, ventilation, illumination, water supply and drainage. Archaeological and historical evidence will be used to elucidate the cultural context and use of the built environment of earlier populations, for example what can be interpreted about urban space and room function.

**ENVI5903 Sustainable Development**

Credit points: 6

**Teacher/Coordinator:** Dr Alison Gates

**Session:** Semester 2

**Classes:** Two 2 hour lectures per week for seven weeks.

**Assessment:** Essay and presentation (100%)

**Mode of delivery:** Normal (lecture/lab/tutorial) Day

This unit of study demonstrates the history and contested understandings of the concept of sustainable development. It applies these concepts to explore important environmental science issues such as population, water management sustainable cities, rural development, industrial ecology, and energy issues. The unit concludes by presenting a range of future scenarios and encouraging students to develop their own vision of sustainability at the global and other scales, and to communicate their means of achieving this sustainability vision.

**ENVI5901 Social Science of Environment**

Credit points: 6

**Teacher/Coordinator:** A/Prof P McManus

**Session:** Semester 1

**Classes:** 2hrs lectures and 2 hrs tutorials per week plus directed reading. The unit runs for weeks 1-7

**Assessment:** essay and seminar presentation (100%)

**Mode of delivery:** Normal (lecture/lab/tutorial) Day

This unit provides both a conceptual and an empirical foundation for the analysis of relationships between society, the environment and natural resources. Contexts for application of social science concepts to the environment include climate change, water resources management, forest issues and urban environmental quality. Students will deal with both broad theoretical approaches to the societal analysis of relationships between people and the environment, for example political ecology, and with specific themes including the sociological basis of collective action, property relations, resource tenure, decentralisation, participatory approaches to environmental and natural resource management, and systems of knowledge. The unit pays particular attention to the implications of heterogeneous and competing interrelated solutions for environmental and natural resource management and explores ways of dealing with diverse stakeholder interests. Empirical material is drawn from various countries, with special emphasis on Southeast Asia and Australia. The aim of the unit is to provide conceptual tools that will be used in other units of study within the program and for application in analysis of resource and environmental management issues faced in real world decision-making contexts.
The unit will draw on the professional experience and agency roles of participants. The unit is taught through a combination of lectures and reading-based seminars.

**IDEA9101 Experimental Interfaces Laboratory**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Rob Saunders  
**Session:** Semester 1  
**Classes:** 3 hrs/wk  
**Corequisites:** IDEA9102  
**Assessment:** 3 x technical exercises, involving design, implementation (40%); presentation (20%); technical documentation (40%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** This unit is offered in odd numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to support IDEA9102 Installation Studio concerned with interaction, using installation as the experimental interface. The studio encompasses a wide array of advanced, sensor-based interfaces for responsive environments. It supports the learning of important technical skills required to develop the hardware and software necessary for experimenting with sensor-based interfaces.

This workshop will provide a framework for students to learn new technical skills and integrate processes from human-computer interaction, multimedia, and advanced sensor technologies within the context of a series of practical exercises. These skills and processes will support the students in designing prototypes of experimental interfaces on a human scale to produce performative architectures, and responsive environments.

Through a series of exercises, students will develop both the hardware and the software for responsive environments. The aim of these exercises is to provide students with an introduction to the technological platforms available for building advanced, sensor-based interfaces. Through these exercises, students will gain an understanding of the challenges and possibilities of designing interactive installations.

**IDEA9102 Installation Studio**

**Credit points:** 12  
**Teacher/Coordinator:** Dr Rob Saunders  
**Session:** Semester 1  
**Classes:** Six hours per week  
**Corequisites:** IDEA9101  
**Assessment:** Participation (15%); technical competency & idea proposal demonstration (15%); research report and design process documentation (20%); design major project and exhibition (50%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** This unit is offered in odd numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to explore interaction, using the installation as the interface. This investigates the relationship between our environments, bodies and technologies in a practice-led fashion. It evolves a discourse on the next generation of mixed-media installations, involving their history, their evolution, and their cultural context.

This studio will provide a platform for students to integrate knowledge of interaction design, multimedia, and advanced sensor technologies within the context of installation art and design. Students will have the opportunity to develop in-depth knowledge through practice by developing prototypes of experimental interfaces on a human scale. These prototypes will culminate in the form of a performance or an installation, producing performative architectures, and responsive environments.

The aim of this design process is to explore the potential for responsive, adaptive and proactive spaces that enhance our relationship with our environment and extend our social interactions. Students will participate in the entire design process from concept to completion, developing their own software and hardware as required. Through this process, students will gain an understanding of the challenges and possibilities of designing technologies to perform as interfaces to our shared physical, social and cultural environments.

**IDEA9103 Virtual Worlds Laboratory**

**This unit of study is not available in 2011**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Xiangyu Wang  
**Session:** Semester 1  
**Classes:** Three hours per week  
**Corequisites:** IDEA9104  
**Assessment:** Participation: 15%, summative technical competency tasks: 85%  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** This unit is offered in even numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to support IDEA9104 Cyber Studio concerned with interaction, using virtual worlds as the interface. This lab introduces design principles and styles, along with virtual world software platforms and their related 3D modelling tools. A range of virtual worlds design styles will be considered with respect to the intended use of the virtual world: collaboration, entertainment, socialising and education. The focus will be on designing for human activities where humans are represented as avatars in interactive, functional, multi-user environments. Students will learn 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; to critically read research papers; to develop an experimental study on the created virtual world that analyses the behaviour of the avatars.

**IDEA9104 Cyber Studio**

**This unit of study is not available in 2011**

**Credit points:** 12  
**Teacher/Coordinator:** Dr Xiangyu Wang and Dr Andy Dong  
**Session:** Semester 1  
**Classes:** Six hours per week  
**Corequisites:** IDEA9103  
**Assessment:** Participation: 15%, technical competency & idea proposal demonstration: 15%, design process documentation: 20%, design major project and exhibition: 50%  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**Note:** This unit is offered in even numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to explore interaction, using the virtual world as the interface. Students will develop an understanding of the unique characteristics of designing in and for virtual worlds, taking into consideration the different types of activities that take place in virtual worlds and how avatars move, talk, and interact in virtual worlds. The associated lab introduces design principles and styles, along with virtual world software platforms and their related 3D modelling tools. A range of virtual worlds design styles will be considered with respect to the intended use of the virtual world: collaboration, entertainment, socialising and education. The focus will be on designing for human activities where humans are represented as avatars in interactive, functional, multi-user environments. Students will learn 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; to critically read research papers; to develop an experimental study on the created virtual world that analyses the behaviour of the avatars.

**IDEA9105 Human Computer Interaction**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Martin Tomitsch  
**Session:** Semester 1  
**Classes:** One hour lecture and two hours tutorial per week  
**Assessment:** Weekly tutorial submissions (30%); individual design project submission (40%); exam (30%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day  
**This unit is a foundation unit that provides a theoretical perspective on the concept of interaction within the Interaction Design and Electronic Arts (IDEA) stream. The aim of this unit of study to introduce Human Computer Interaction (HCI) design principles and methods. It introduces students to valuable tools, techniques, and sources of information about HCI and provides a systematic approach to the design and evaluation of alternative ways in which people interact with various types of computational environments. The unit increases
awareness of good and bad design through observation of existing technology, and teaches the basic skills of task analysis, and analytic and empirical evaluation methods. Students will learn to apply knowledge of HCI theory and processes by conducting a case study to different types of interfaces; to critically read and examine research papers; to develop an experimental study on one developed or existing human-computer interface; to analyse the interface issues and effectiveness using HCI evaluation techniques.

IDEA9106 Design Thinking
Credit points: 6 Teacher/Coordinator: Dr Paul Murty Session: Semester 1 Classes: One hour lecture, two hours seminar per week. Assessment: Investigations, design studies, process documentation and oral presentations (80%); participation in class activities and blog (20%). Mode of delivery: Normal (lecture/lab/tutorial) Day

The prolific growth of computing and its extensions, including the internet, interactive media, mobile communication, and social computing have stimulated development of new, substantially different design fields and prompted radical changes to existing practices and expectations.

This unit aims to give students, with an interest in design and designing, a fuller awareness of designing as both: 1) a holistic but complex cognitive activity by which a designer learns and integrates knowledge and skills, both general and specific, and applies these to many individual experiences, settings and requirements, to create unique works, and 2) a dynamic process of situated practice in which the designer, by intentional acts and unexpected discoveries, develops individual design processes. The unit investigates the symbolism of designing, by presenting elements of the theoretical background of creative design, significant issues and the first hand accounts of current practitioners, and by providing the challenge to explore, analyse and reflect upon a diverse array of design practices. An important aspect of this approach is to enable the arts, technologies, theories and practice of designing in all domains, not only electronic, to be considered as a common discipline. This unit of study will be informed by the body of knowledge from studies in design science, and research into the actual experiences of practitioners in different design fields.

On completion of this unit, each student will be aware of the breadth of different ways in which designing may be interpreted and distinguished from the activities of other disciplines, such as science and art. The students will also have: 1) developed a greater capacity to reflect upon their own designing, 2) gained a deeper understanding of how their activities, both as a practitioner in a particular discipline and as an individual, may be compared and contrasted with other disciplines and other practitioners, and 3) gained insights into how they may advance their development as a practitioner.

IDEA9201 Physical Computing Laboratory
Credit points: 6 Teacher/Coordinator: Dr Andrew Vande Moere Session: Semester 2 Classes: Three hours per week. Corequisites: IDEA9202 Assessment: Participation (15%); summative technical competency tasks (85%). Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: This unit is offered in odd numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to support IDEA9202 Devices Studio concerned with interaction, using devices, e-fashion/e-jewellery, and ubiquitous computing as the interface. The studio encompasses a wide array of physical computing devices (wearable, mobile, portable, tangible 'things' in which the computational technology is embedded in the device or artefact). The lab teaches students technical skills for operating the devices, microprocessors, sensors, other relevant hardware, and the important industry-standard softwares pertinent to the development of physical computing devices, such as object-oriented real-time responsive audio-visual programming environments (e.g. Max/MSP or Processing). In the lab, students will foster their conceptual and skill knowledge necessary for the implementation of ideas borne out in the studio. Hence it will support a number of modes for visual, sonic, textile or material expression of ideas.

IDEA9202 Device Studio
Credit points: 12 Teacher/Coordinator: Dr Andrew Vande Moere Session: Semester 2 Classes: Six hours studio per week Corequisites: IDEA9201 Assessment: Participation (15%); technical competency & idea proposal demonstration (15%); design process documentation (20%); design major project and exhibition 50% Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: This unit is offered in odd numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to explore interaction, using miniature devices as the interface. This encompasses a wide array of physical computing devices, such as wearable, mobile, portable or tangible furniture, garments, jewellery or other artefacts in which computational sensor and actuator technology is embedded. Everyday objects that are able to analyse, respond and mediate our user experience are rapidly permeating the expression, monitoring, customisation and personalisation of professional, industrial, personal and daily activities. This studio will investigate a number of modes for the multi-sensory expression of ideas. The kinds of information represented may range from personal to social and external, for applications ranging from entertainment to health. The studio is offered biennially in odd-numbered years: each time it will revolve around a socially relevant theme. Students will use various computing technologies including sensors, microprocessors and actuators to facilitate the design and development of novel, innovative applications that imbue intelligence, responsiveness and interaction in small-sized physical objects that can be manipulated, worn, used, watched, listened to, in order to communicate physically (in digital or analogue material ways) the message of the interaction.

IDEA9203 Time-Based Media Laboratory
This unit of study is not available in 2011
Credit points: 6 Teacher/Coordinator: Dr onacloV Session: Semester 2 Classes: Three hours per week Corequisites: IDEA9204 Assessment: Participation (15%); summative technical competency tasks (85%). Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: This unit is offered in even numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

This unit of study is not available in 2011

The aim of this unit of study is to support IDEA9204 Screen Studio concerned with interaction, using screen as the interface. The studio aims to present the principles of narrative and language as metaphors for discursive interfaces. This supporting lab develops competence in working with time-based media including digital video production, editing, post-production, special effects, real-time video processing, and text analysis.

IDEA9204 Screen Studio
This unit of study is not available in 2011
Credit points: 12 Teacher/Coordinator: Dr onacloV Session: Semester 2 Classes: Six hours studio per week Corequisites: IDEA9203 Assessment: Participation: 15%; technical competency & idea proposal demonstration: 15%; design process documentation: 20%; design major project and exhibition: 50% Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: This unit is offered in even numbered years only. Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre. First preference to IDEA, Digital Media and Design Computing students.

The aim of this unit of study is to explore interaction, using the screen as the interface. The unit aims to present the principles of narrative
and language as metaphors for discursive interfaces. Students will produce interactive digital video and/or video art, which combine multiple screen-based platforms and the viewer(s) as (an) active part of the video work. The works will be informed by theories drawn from film theory and linguistics. The technical aspects of working with time-based media including digital video production, editing, post-production, special effects, real-time video processing, and text analysis are developed in the associated lab.

IDEA9205
Art, Technology and Culture
Credit points: 6
Teacher/Coordinator: Dr Oracio V Session: Semester 2
Classes: Three hours per week
Assessment: Class/individual presentation (30%); written essay (40%); concept proposal (30%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

Objectives include the development of a deeper understanding of the complex interactions between modern technology, visual art and electronic art forms, and the conceptualisation and formulation of the issues arising from these interactions in the creative design process.

The unit of study sets out as an investigatory process, investigating a set of artistic, cultural, and social practices that both constitute and reflect the theoretical foundations of art, culture, and technology. The investigation is shaped and structured as a platform for discussions, readings, screenings, exhibition views, concept proposals and presentations.

The students’ investigatory process is grounded in a wide set of readings, including cultural studies, art history and theory and visual culture. This theoretical discourse is extended and provoked by a wide collection of materials and screenings, originating from visual artworks, electronic art, experimental film and video, live performance and interactive design artworks.

IDEA9301
Graduation Studio
Credit points: 12
Teacher/Coordinator: Dr Andrew Vande Moere Session: Semester 1, Semester 2
Classes: Studio six hours per week
Prerequisites: IDEA9101, 9103, 9201 or 9203
Corequisites: IDEA9101, 9103, 9201 or 9203
Assessment: Participation (15%); technical competency & idea proposal demonstration (15%); design process documentation (20%); design major project and exhibition (50%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre, MIDEA, MDigital Media and MDesign Computing students only. Students may incur materials costs in this unit.

This is the culminating studio of the Master of Interaction Design and Electronic Arts that provides students with a capstone experience. The aim of this studio is to draw together and synthesise the learning that has taken place during the whole degree. The student will develop a graduation design project based on the theme from the concurrent studio. The design project must exceed the normal submission requirements of the studio by bringing together the knowledge acquired during the whole degree in a more sophisticated, rigorous result and a more detailed documentation. The project undertaken will be supported by an in-depth artistic reflection or written report demonstrating the independent exploration of relevant theories and issues raised during the design.

Alternatives to the Graduation Studio include enrolment in IDEA9311 Research Internship or participation in approved international exchange.

IDEA9302
IDEA Research Project
Credit points: 12
Teacher/Coordinator: Dr Andrew Vande Moere Session: Semester 1, Semester 2
Prerequisites: Individual supervision 1 hour per week
Corequisites: IDEA9101, 9103, 9201 or 9203
Assessment: Attendance, intermediate presentation (20%); Final presentation: Design (Concept), Implementation, Evaluation or Reflection, Presentation and Documentation (80%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: IDEA9302 Research Project and IDEA9303 IDEA Dissertation are not assessed separately, as a single result is given for the combined dissertation and project. Admission in this unit is merit-based and requires a minimum Weighted Average Mark (WAM) of 75. MIDEA students only.

IDEA9302 Research Project and IDEA9303 IDEA are not assessed separately. A single result is given for the combined thesis and project. Admission in this unit is merit-based and requires a minimum Weighted Average Mark (WAM) of 75.

The appointment of a supervisor depends on the research topic chosen for the dissertation by the student.

On the successful completion of this unit, students will have demonstrated: an ability to develop a theoretical, practice-based or research project in the field of Interaction Design or Electronic Arts; an ability to undertake this project in an independent way, incorporating all technical and theoretical aspects appropriate and related to the previous units of study taken, and an ability to communicate and present their ideas embedded in the appropriate theoretical foundation.

A research thesis should be 15,000 to 25,000 words in length, or equivalent in the form of software programming, hardware development or any other artefacts that can be construed as research. The research project and dissertation will be assessed by a minimum of two independent academic examiners on the merits of its underlying design rationale or original conceptual thinking, its implementation in the form of software, hardware, theoretical discourse or other physical manifestation, while the dissertation is assessed on its design rationale, empirical evaluation, analysis or description within related theories or critical reflection, and the presentation, using appropriate visual, written, verbal and multimedia presentation techniques.

IDEA9303
IDEA Dissertation
Credit points: 12
Teacher/Coordinator: Dr Andrew Vande Moere Session: Semester 1, Semester 2
Corequisites: IDEA9302
Assessment: Participation, intermediate presentation (20%); Final presentation: Design (Concept), Implementation, Evaluation or Reflection, Presentation and Documentation (80%)
Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: IDEA9302 Research Project and IDEA9303 IDEA Dissertation are not assessed separately, as a single result is given for the combined dissertation and project. Admission in this unit is merit-based and requires a minimum Weighted Average Mark (WAM) of 75.

IDEA9302 Research Project and IDEA9303 IDEA are not assessed separately. A single result is given for the combined thesis and project. Admission in this unit is merit-based and requires a minimum Weighted Average Mark (WAM) of 75.

The appointment of a supervisor depends on the research topic chosen for the dissertation by the student.

On the successful completion of this unit, students will have demonstrated: an ability to develop a theoretical, practice-based or research project in the field of Interaction Design or Electronic Arts; an ability to undertake this project in an independent way, incorporating all technical and theoretical aspects appropriate and related to the previous units of study taken, and an ability to communicate and present their ideas embedded in the appropriate theoretical foundation.

A research thesis should be 15,000 to 25,000 words in length, or equivalent in the form of software programming, hardware development or any other artefacts that can be construed as research. The research project and dissertation will be assessed by a minimum of two independent academic examiners on the merits of its underlying design rationale or original conceptual thinking, its implementation in the form of software, hardware, theoretical discourse or other physical manifestation, while the dissertation is assessed on its design rationale, empirical evaluation, analysis or description within related theories or critical reflection, and the presentation, using appropriate visual, written, verbal and multimedia presentation techniques.

IDEA9311
Research Internship
Credit points: 12
Teacher/Coordinator: Dr Andrew Vande Moere Session: Semester 1, Semester 2
Corequisites: 1 hour per 2 weeks:

supervision by academic
supervisor. 2 hours per week: supervision by private partner. Prerequisites: 48 credit points including 24 credit points from IDEA(9102, 9104, 9202, 9204) and a WAM of at least 75 Assessment: Log Book (strict requirement) (10%); Written Report (15%); Public Exhibition and Documentation (15%); Quality of Work (concept and implementation) (60%). Mode of delivery: Professional Practice Note: Department permission required for enrolment. Note: Students must have WAM of at least 75. Students must seek permission to enrol from the proposed academic supervisor and the M.IDEA program coordinator before the start of the teaching semester. Internship must end before end of semester. Credit will not be granted for this unit of study.

This unit allows students to collaborate with a private partner on a project with a strong design research character. Such project would typically not be connected to the direct commercial goals, require a certain degree of risk, and necessitates a level of technical and design expertise that is not available by the private partner. The program coordinator can choose to offer pre-approved client briefs from known external partners to interested students.

Students need to submit a written project proposal, detailing the academic supervisor, the outcomes and timeline of the internship, and the agreement from the private partner. The proposal must describe how the outcome of the internship will include the design and production of a design work that has a clear relationship to the skills and knowledge taught in at least one of the four M.IDEA studios. The total workload should reflect a 12 credit point unit of study in this degree.

At completion, the student must submit: a log book (physical or digital) of their internship activities; a written report describing the design rationale and the development structure, and an evaluation or reflection of the design work undertaken at the internship of at least 5000 words; a public exhibition of the work including appropriate documentation. The academic supervisor, the program coordinator and the private partner will jointly assess the work.

MARC4001 Urban Architecture Research Studio
Credit points: 12 Teacher/Coordinator: Dr Lee Stickells and Dr Peter Armstrong. Session: Semester 1, Semester 2 Classes: 6 hr tutorial/week for 12 weeks (lectures, technical consultations and demonstrations as required) Assessment: Portfolio (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This studio cannot be taken in the same semester with MARC4002 or MARC4003. Students may incur materials costs in this unit.

The studio examines the nature of architecture in the urban context in terms of the internal and external parameters which act on the design process at incremental urban scales and intensities of use. The studio also examines the societal, financial, legislative and managerial framework which determines the envelope within which development may occur. The evolutionary nature of urban fabric and the historical processes acting on the urban form and on individual projects will be researched as a foundational process in the development of design projects as well as the evolving statutory environment. Each studio will require the presentation of a developed design project substantiated by a researched report defining the foundations on which the project rests.

MARC4001 Studio A Urban Architecture, MARC4002 Studio B Sustainable Architecture and MARC4003 Studio C Digital Architecture are all available in both semesters 1 and 2. Students may enrol or pre-enrol freely, but some will be asked to swap to create equal groups. After three semesters each student will have done each of the studios. The studios examine the relationships between architecture and urbanism; architecture and sustainability; and architecture and digital design. Each is based around one or more design projects which address a specialised area of study, supported by lectures and seminars which introduce the relevant theory, knowledge and design precedents. Studios require the investigation of key technical issues and systems, and their innovative integration in the design, with the preparation of appropriate contract documents. On the successful completion of these units, students will have demonstrated: an ability to formulate, interpret and communicate appropriate concepts derived from the study of brief and site; an ability to extend those starting points into a working design proposal; an ability to develop the design proposal in response to critique, and produce a building design which demonstrably embodies understanding of the principles associated with the specialised study area; an ability to communicate the design ideas effectively through appropriate graphic and three-dimensional means using architectural conventions; and an ability to cohesively design and execute a comprehensive presentation of the project. These units are core to the Master of Architecture.

MARC4002 Sustainable Architecture Research Studio
Credit points: 12 Teacher/Coordinator: Dr Glen Hill/ Mr Daniel Ryan Session: Semester 1, Semester 2 Classes: 6 hr tutorial/week for 12 weeks (lectures, technical consultations and demonstrations as required) Assessment: Portfolio (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This studio cannot be taken in the same semester with MARC4001 or MARC4003. Students may incur materials costs in this unit.

MARC4002 Studio B Sustainable Architecture will focus on the theories, technologies and techniques that promote the creation of a sustainable built environment. The studio projects will directly explore the interdependent issues of environmental, social and economic sustainability. The studio will prompt students to develop critical positions in regard to sustainability and to extend and explore those positions through the architectural design process.

MARC4001 Studio A Urban Architecture, MARC4002 Studio B Sustainable Architecture and MARC4003 Studio C Digital Architecture are all available in both semesters 1 and 2. Students may enrol or pre-enrol freely, but some will be asked to swap to create equal groups. After three semesters each student will have done each of the studios. The studios examine the relationships between architecture and urbanism; architecture and sustainability; and architecture and digital design. Each is based around one or more design projects which address a specialised area of study, supported by lectures and seminars which introduce the relevant theory, knowledge and design precedents. Studios require the investigation of key technical issues and systems, and their innovative integration in the design, with the preparation of appropriate contract documents. On the successful completion of these units, students will have demonstrated: an ability to formulate, interpret and communicate appropriate concepts derived from the study of brief and site; an ability to extend those starting points into a working design proposal; an ability to develop the design proposal in response to critique, and produce a building design which demonstrably embodies understanding of the principles associated with the specialised study area; an ability to communicate the design ideas effectively through appropriate graphic and three-dimensional means using architectural conventions; and an ability to cohesively design and execute a comprehensive presentation of the project. These units are core to the Master of Architecture.

MARC4003 Digital Architecture Research Studio
Credit points: 12 Teacher/Coordinator: Dr Sarah Benton Session: Semester 1, Semester 2 Classes: Six hr tutorial for 12 weeks (lectures, technical consultations and demonstrations as required) Assessment: Portfolio (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day Note: This studio cannot be taken in the same semester with MARC4001 or MARC4002. Students may incur materials costs in this unit.

MARC4003 Studio C Digital Architecture explores theories, media and techniques that involve digital media to create engaging architectural designs that stimulate all human senses in their relationship with the built environment. The studio addresses various issues of digital media, digital design techniques, design theories, computational concepts and other factors influencing the development of architectural production using digital tools. The studio prompts critical reflections on design conventions and creates novel design positions.

MARC4001 Studio A Urban Architecture, MARC4002 Studio B Sustainable Architecture and MARC4003 Studio C Digital Architecture are all available in both semesters 1 and 2. Students may enrol or pre-enrol freely, but some will be asked to swap to create equal
groups. After three semesters each student will have done each of the studios. The studios examine the relationships between architecture and urbanism; architecture and sustainability; and architecture and digital design. Each is based around one or more design projects which address a specialised area of study, supported by lectures and seminars which introduce the relevant theory, knowledge and design precedents. Studios require the investigation of key technical issues and systems, and their innovative integration in the design, with the preparation of appropriate contract documents. On the successful completion of these units, students will have demonstrated: an ability to formulate, interpret and communicate appropriate concepts derived from the study of brief and site; an ability to extend those starting points into a working design proposal; an ability to develop the design proposal in response to critique, and produce a building design which demonstrably embodies understanding of the principles associated with the specialised study area; an ability to communicate the design ideas effectively through appropriate graphic and three-dimensional means using architectural conventions; and an ability to cohesively design and execute a comprehensive presentation of the project. These units are core to the Master of Architecture.

MARC4101 Advanced Technologies 1
Credit points: 6 Teacher/Coordinator: Dr Peter Armstrong Session: Semester 1 Classes: 2hr tutorial/week for 13 weeks Corequisites: MARC4001 or 4002 or 4003 Prohibitions: MARC4202 Assessment: exercises (40%); final exam (60%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit introduces students to concepts, issues and techniques relating to the design of some advanced structural, construction and services systems, and the integration of these systems within the design decision making process. This unit has a modular structure and aims to give students the tools to initiate and develop their design intentions in relation to structural, construction and services technologies. The knowledge will move from an understanding of the nature and impact of materiality on the architectural design process through to the implementation of this knowledge in the practice of a professional architect through design, consultation and building processes. The unit aims to examine the foundation and structural systems of large scale public buildings, the construction and building of the elements of the external fabric and the impact on the design process of the anthropomorphic, environmental and engineering requirements of the internal spaces. The unit stresses the primacy of detailing, skills in the development of individual design processes, and the understanding of design principles of construction materials in relation to structural and environmental concerns. It also aims to develop an understanding of the impact of the BCA and relevant Australian Standards on the building interior and exterior. Knowledge required for the selection of strategies, systems, and integration of the systems for a variety of design situations, is assessed through case study assignments and an examination. This unit is core to the Master of Architecture. Contact hours: 6 hours per week (lecture and tutorial); student effort expected for an average student to achieve a pass level result: class preparation: 2 hours per week; assessment preparation: 30 hours per semester.

MARC4102 Modern Architectural Theory
Credit points: 6 Session: Semester 2 Classes: 2hr tutorial/week for 13 weeks Prohibitions: ARCH6104, ARCH9048, ARCH9049 Assessment: Assignment 1 (30%); Assignment 2 (10%); Essay (60%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The objective of the Modern Architectural Theory unit is to equip students with a critical understanding of key Western architectural theories from the Enlightenment to the present. Emphasis is placed on the specific historical situations and cultural and philosophical contexts in which those theories arose, and ultimately how they were regarded in relation to the domain of architectural embodiment. It is organized predominantly as a chronological survey which clearly identifies particular trains of thought in their continuity and transformation throughout history. Students will become generally conversant in the principles of central theories, and will understand their terms and references. Through readings, lectures, and tutorial sessions, students will acquire the literacy required to perceive and articulate contemporary theoretical standpoints, and will refine their research and writing skills through independent research into a particular aspect of recent architectural theory and history related to their concurrent studio design project. Close attention will be paid to the exchange between practice and theory and the relevance of the discussed theories to the formation of current circumstances, and to the place of architecture within contemporary culture as a whole.

MARC4201 Modern Architectural History
Credit points: 6 Teacher/Coordinator: Prof Sandra Kaj-O’Grady Session: Semester 1 Classes: 2hr lecture/week for 13 weeks Prohibitions: ARCH4102 Assessment: Illustrated Research Essay (50%), Critical Summaries (20%), and Seminar Presentation (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit presents foundational knowledge concerning modern movements in global architecture and urbanism, from the early-20th century to the present. It explores the relationships between developments in architectural practice and broader dynamics of 20th century history. Organised as a chronological survey focused on case studies of individual buildings, the course uses architectural exemplars to explore the social, political, technological, economic, and aesthetic guises of modernity. In addition to developing student analytical skills, the unit seeks to introduce students to formal and conceptual approaches to architectural modernity, provide a critical overview of the architectural profession and its historical context over the last century, and impart knowledge of the major periods and developments of modern movements in architecture and their relationship to the multiple guises of modernity in which they were embedded. Through readings and lectures, students will acquire the architectural literacy required to perceive the contemporary built environment as an artefact of modernity’s varied legacies. In addition, students will be expected to refine their research and writing skills through their individual investigations of a particular aspect of modern architecture.

MARC5001 Graduation Studio
Credit points: 12 Teacher/Coordinator: Professor Michael Tawa Session: Semester 1, Semester 2 Classes: 6 hr tutorial/week for 12 weeks (lectures, technical consultations and demonstrations as required) Prohibitions: MARC4001 and MARC4002 and MARC4003 Assessment: ARCH5201, MARF5201 Assessment: Portfolio (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This is the culminating studio of the Master of Architecture degree and provides students with the opportunity to develop a complex architectural project that builds upon knowledge gained from the preceding digital, sustainable or urban architecture studios. The project will be supported by a comprehensive research report demonstrating independent exploration of relevant theories and issues raised during the design. This unit is core to the Master of Architecture.

MARC5101 Advanced Technologies 2
Credit points: 6 Teacher/Coordinator: Dr David Gunaratnam Session: Semester 2 Classes: 4 hours per week (lecture and tutorial) Corequisites: MARC4001 or MARC4002 or MARC4003 Prohibitions: ARCH4203 Assessment: computer modeling assignment (30%); a case study assignment (30%); examination (40%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit introduces students to concepts, issues and techniques relating to the design of more advanced and complex structural, foundation and services systems for buildings. The unit has a modular structure and explores in depth the integration of these systems within the design decision making process. It aims to give students the ability to realize their design intentions initially in the studio projects of the degree; to understand the nature and impact of materiality on the architectural design process; and then in subsequent practice, to
provide the basis for the development of technical and design skills required of a professional architect. This unit reviews the recent developments and emerging trends in the design of more advanced structural systems for buildings, including those inspired by nature and generated through computational processes, and explores the nature of both the building fabric and, the environmental and management systems which enable the building to function optimally in a complex and dynamic urban environment. Students are expected to develop the ability to research alternative structural, environmental and construction systems that satisfy the aesthetic requirements of their design and to evaluate them based on clearly articulated decision criteria. Knowledge required for the selection of strategies, systems, and the integration of the systems, for a variety of design situations, is assessed through a computer modelling assignment, a case study assignment and a written examination. Student effort expected for an average student to achieve a pass level result: class preparation - 2 hours per week; assessment preparation - 39 hours per semester.

**MARC5102 Contract Documentation**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Peter Armstrong  
**Session:** Semester 2  
**Classes:** 3 hrs lectures/tutorials per week for 13 weeks  
**Corequisites:** One of MARC4001, MARC4002, MARC4003, MARC5001 or MARC5201  
**Prohibitions:** ARCH4103  
**Assessment:** 4 assignments (40%); contract documentation set (60%)  
**Mode of delivery:** Normal (lecture/lab/tutorial)  
**Day**

The unit aims to provide 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. 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 semester studio; an ability to communicate this documentation to owners, 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 Management in Architecture 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. This unit is core to the Master of Architecture.

Contact hours: 3 hours per week. Class preparation and assessment preparation: 39 hours per semester.

**MARC5201 Management in Architecture**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Peter Armstrong  
**Session:** Semester 2  
**Classes:** three hour lecture per week  
**Prohibitions:** ARCH6201  
**Assessment:** written exercises, tutorial participation and examination (100%)  
**Mode of delivery:** Normal (lecture/lab/tutorial)  
**Day**

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.

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.

This unit is core in the Bachelor of Architecture. Contact hours: 3 hours per week. Class preparation: 1 hour per week. Assessment preparation: 26 hours per semester.

**MARC6101 Performance Based Modelling in Design**

**Credit points:** 6  
**Teacher/Coordinator:** Daniel Ryan  
**Session:** Semester 1  
**Classes:** 1 x 1 hr lecture/week and 1 x 2hr computer laboratory session/week  
**Corequisites:** One of MARC4001, MARC4002, MARC4003, MARC5001 or MARC5201  
**Assessment:** Two assignments (40%) and (60%)  
**Mode of delivery:** Normal (lecture/lab/tutorial)  
**Day**

The unit aims to introduce students to selected state-of-the-art applications software for performance-based modelling of buildings through simulation and optimisation of structural and environmental systems. Performance may be thought of as how a building form interacts with environmental and structural forces to offer a setting for particular activities to occur. New software allow us to model and visualise such forces and their relationship to a building’s geometry. This unit looks at investigating how to manipulate the form and detail of a building to improve the structural and environmental performance. It provides hands-on experience in the use of these applications software for decision making at the conceptual stage of the design process. It provides a framework for integrating and optimally responding to the technical opportunities and constraints during the conceptual design phase. It will facilitate and extend students’ capability to explore and develop novel innovative technical solutions in resolving their design problems. At the completion of the unit each student is expected to have demonstrated through the assessment tasks a good understanding of the capabilities of the different research and applications software presently available; an ability to interpret the performance information and make conceptual design decisions; a good understanding of the theoretical bases for the features in the research and applications software; and an ability to develop design solutions that optimally integrates the technical aspects of design.

**MARC6102 3D Computer Design Modelling**

**Credit points:** 6  
**Teacher/Coordinator:** Dr Sarah Benton  
**Session:** Semester 1, Semester 2  
**Classes:** Lectures: 1 hour/week, tutorials 2 hours/week  
**Assessment:** Exercises Weeks 1-10 (60%); Final Portfolio Weeks 11-13 (40%)  
**Mode of delivery:** Normal (lecture/lab/tutorial)  
**Day**

Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful, please seek permission from the Faculty of Architecture, Design and Planning Student Administration Centre.

This unit of study consolidates students’ knowledge of advanced concepts in digital modelling and visualization media available for architectural design. The unit develops conceptual understanding and practical application of these techniques, using commercial modelling and rendering packages. It will help students: generate sophisticated 3D modelling through pre-packaged techniques and scripting processes, assign colour and texture information, generate complex photorealistic images and develop transferable conceptual skills that apply across different 3D packages and for different contexts such as modeling, animation, games assets, and photorealistic rendering.

At the conclusion of this unit students should be conversant with 3D modeling and photo-rendering terminology and have the ability to produce sophisticated digital models and photorealistic images.

Class preparation: 3 hours/week, assessment preparation 8 hours/semester.
Assessment and preparation: 38 hours. Context. This unit is Pass/Fail. Contact hours: 40 hours intensive.

Including drawings, models and CAD, which are assessed in a jury. Ideas and understandings effectively through presentation means demonstrated good architectural judgement; and communicated these or technical framework of design; applied these understandings and their understanding of the theoretical, historical, cultural, environmental and ideas in an intensive design studio environment. 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; and communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context. This unit is Pass/Fail. Contact hours: 40 hours intensive. Assessment and preparation: 38 hours.

MARC6202
Design as Social Practice
Credit points: 6 Teacher/Coordinator: Associate Professor Anna Rubbo Session: Semester 2 Classes: Two hours seminar per week. Prerequisites: DAAE2002 Prohibitions: DAAE2003 Assessment: Attendance; seminar presentation; fieldwork; and paper (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Through the study of selected building types and settings the unit aims to explore the ways in which cultural and social factors influence design, and how design can be inclusive of, and responsive to, a range of user groups. Building types might be housing, educational, religious, and institutional or community buildings. The type and the approach will be introduced in lectures and seminars, and an understanding of the type gained through fieldwork using mixed mode research approaches taking into account the environmental context. It is intended that the building type and setting will vary each year the unit is offered. Through an increased capacity for critical analysis and interpretation, this research led learning unit will provide students with useful knowledge of the design of socially responsive and inclusive environments.

This elective unit will contribute to knowledge of design as a social practice, and provide an interdisciplinary learning setting in which to consider the design of the built environment. Design as Social Practice will enhance participants’ capacity to analyse how social and cultural factors influence design, and how design can be socially responsive and inclusive. It is intended that students in other disciplines will develop a means of interpreting buildings that will enhance their appreciation of design as a social practice.

MARC6203
Architecture Workshop A
Credit points: 6 Teacher/Coordinator: Dr Glen Hill Session: S1 Intensive, S2 Intensive Classes: 40 hours intensive mode Assessment: Design jury (100%) Mode of delivery: Block Mode Note: Department permission required for enrolment. Note: Students may incur materials costs in this unit.

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. 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; and communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context. This unit is Pass/Fail. Contact hours: 40 hours intensive. Assessment and preparation: 38 hours.

MARC6204
Architecture Workshop B
Credit points: 6 Teacher/Coordinator: Dr Glen Hill Session: S1 Intensive, S2 Intensive Classes: 40 hours intensive mode. Assessment: Design jury (100%) Mode of delivery: Block Mode Note: Department permission required for enrolment. Note: Students may incur materials costs in this unit.

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. 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; and communicated these ideas and understandings effectively through presentation means including drawings, models and CAD, which are assessed in a jury context. This unit is Pass/Fail. Contact hours: 40 hours intensive. Assessment and preparation: 38 hours.

PLAN9010 Planning Dissertation I
Credit points: 12 Teacher/Coordinator: Dr Krishna Shrestha Session: Semester 1, Semester 2 Classes: Independent study + Fortnightly workshops + Alternate fortnightly consultation meetings Prerequisites: WAM of at least 75 and 48 credit points being the core requirements for the MURP. Prohibitions: PLAN8018, ARCH8031, ARCH8045, ARCH9046, ARCH9080 Assessment: Proposal preparation and presentation (5%); Final presentation (or Progress presentation if continuing in the second semester - feedback only) (10%); Dissertation of at between 15,000 and 25,000 words (85%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study approval form, signed by Program Director, with your request to enrol. This unit is for Masters of Urban and Regional Planning student only. It MUST be taken in conjunction with PLAN9011 Planning Dissertation 2, either in the same or following semester.

The planning dissertation is a substantial piece of research, conducted full time over one semester (by enrolment in PLAN9010 and PLAN9011), or part time over two semesters (by consecutive enrolment in these units). It takes the form of a document (between 15000 and 25000 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

POSTGRADUATE UNIT DESCRIPTIONS

Plan 9011 Planning Dissertation 2
Credit points: 12 Teacher/Coordinator: Dr Krishna Shrestha Session: Semester 1, Semester 2 Classes: Independent or group study Prerequisites: WAM of at least 75 and 48 credit points being the core requirements for the MURP Corequisites: PLAN9010 Assessment: Proposal preparation and presentation (5%); Final presentation (or Progress presentation if continuing in the second semester - feedback only) (10%); Dissertation of at between 15,000 and 25,000 words (85%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This unit is for Masters of Urban & Regional Planning students only. It is 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. For those intending to undertake further academic study, the dissertation also provides an opportunity for you to develop your research skills.

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. 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 hypotheses; explanation of research methods; presentation and analysis of data; discussion of conclusions; an abstract.

Permission to continue the Planning Dissertation is subject to a satisfactory research proposal which must be approved by your supervisor by week 3 of semester. The dissertation will be assessed by two examiners. Dissertations are due at the end of the first week of exams for the semester in which you are enrolled in Planning Dissertation 2. Note that only one submission is required for both Planning Dissertation 1 and 2. It is not possible to complete Dissertation 1 independently of Dissertation 2. Students who intend a shorter project should enrol in PLAN9018 Planning Report.

PLAN9011 Planning Dissertation 2
Credit points: 12 Teacher/Coordinator: Dr Krishna Shrestha Session: Semester 1, Semester 2 Classes: Independent or group study Prerequisites: WAM of at least 75 and 48 credit points being the core requirements for the MURP Corequisites: PLAN9010 Assessment: Proposal preparation and presentation (5%); Final presentation (or Progress presentation if continuing in the second semester - feedback only) (10%); Dissertation of at between 15,000 and 25,000 words (85%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This unit is for Masters of Urban & Regional Planning students only. It MUST be taken in conjunction with PLAN9010 Planning Dissertation 1, either in the same or preceding semester.

The planning dissertation is a substantial piece of research, conducted full time over one semester (by enrolment in PLAN9010 and PLAN9011), or part time over two semesters (by consecutive enrolment in these units). It takes the form of a document (between 15000 and 25000 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. For those intending to undertake further academic study, the dissertation also provides an opportunity for you to develop your research skills.

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.

A dissertation 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 and / or hypotheses; explanation of research methods; presentation and analysis of data; discussion of conclusions; an abstract.

Permission to continue the Planning Dissertation is subject to a satisfactory research proposal which must be approved by your supervisor by week 3 of semester. The dissertation will be marked by two examiners. Dissertations are due at the end of the first week of exams for the semester in which you are enrolled. This unit is for masters of Urban and regional Planning student only.

**PLAN9018 Planning Report**

*Credit points: 12 Teacher/Coordinator: Dr Krishna Shrestha Session: Semester 1, Semester 2, Block Mode* 

**Prohibitions:** ARCH9031, ARCH9060, ARCH9045, ARCH9046, PLAN9010, PLAN9011, ARCH9045, ARCH9046, PLAN9010, PLAN9011

**Assessment:** Proposal preparation and presentation (5%); final presentation (10%); Report of between 10,000 and 15,000 words (85%)

**Mode of delivery:** Normal (lecture/lab/tutorial) Day

**Note:** Department permission required for enrolment. Note: Submit an Independent Study approval form, signed by Program Director, with your request to enrol. This unit is for masters of Urban and regional Planning student only.

The planning report is a substantial piece of research conducted over one semester. It takes the form of report (between 10,000 and 15,000 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". 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. 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. Permission to continue the Planning Report is subject to a satisfactory research proposal which must be approved by your supervisor by week 3 of semester. Planning reports are due at the end of the first week of exams for the semester in which you are enrolled.

**PLAN9045 Economic Tools and Community Development**

*Credit points: 6 Teacher/Coordinator: Prof Alan Peters Session: S2 Late Int Classes: 5 day intensive (9am-5pm) Assessment: Two smaller analytical assessments (2x25%) and a larger report (50%) Mode of delivery: Block Mode*

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.

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; understand the social and economic impacts of tourism; 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.

**PLAN9048 Environmental Design and Planning**

*Credit points: 6 Teacher/Coordinator: Mr Martin Payne Session: S2 Late Int Classes: 4 days intensive (9am-5pm) Assessment: One report, 6000 - 7000 words (100%) Mode of delivery: Block Mode*

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.

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.

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.

**PLAN9049 Development Planning and Policy**

*Credit points: 6 Teacher/Coordinator: Dr Krishna Shrestha Session: S1 Late Int Classes: Intensive module - lectures, seminars and group work/discussions run over three days (9am to 5 pm) Assessment: Three assignments: (1) development project reading report (20%); (2) critical essay (30%); (3) draft project design (50%) Mode of delivery: Block Mode*

**Note:** This unit is offered in odd numbered years only.

This unit is designed to fill a significant gap in the evolution of the urban and regional planning syllabus. Development project assistance is a multi billion dollar industry with Australia alone contributing significantly through projects and technical assistance in Africa, Asia (east, south and north) and the Pacific. Additionally are the programs of the multilateral agencies like the World and Asian Development Banks and those of the largest donor countries of Japan, United States and European nations. There are many parallels between urban and regional plan making and the design of development projects. Indeed, some planning consultancies are primarily engaged in international development assistance work. Differences in context, approach, content and implementation place particular demands on development project designers that are not addressed in standard land use planning texts. Additionally, expenditure of large sums of public money has brought with it demands for quality assurance (QA) assessment at each stage of the development project activity cycle. An introduction to QA methodology and practice is a necessary component of development project design.
International development assistance is a huge business employing large numbers of Australian consultants, contractors and supplying companies together with those of partner governments. Planners contribute to the design, implementation and evaluation of development projects in most of the neighbouring countries of Asia and the Pacific. Development project design is conditioned by several key elements including: components of the project activity cycle, thematic policy goals and essential quality assurance requirements. This unit is designed for planners who may work in the field of international development.

By the end of this unit of study you should have an understanding of the role and scope of development assistance project planning; an ability to undertake the studies required at each stage of the development project activity cycle; familiarity with the fundamentals of development project design; ability to comply with design conditions imposed by the key policy themes of: poverty, gender equity, environmental and sustainability focused development objectives; familiarity with the scope and character of urban and regional planning project design and implementation in the Asia-Pacific region; and an understanding of quality assurance methodology in development project assessment.

The unit reflects the increasing internationalisation of Australian planning practice. It caters to the needs of local and international students intending to work on urban and regional planning projects within a development assistance context.

**PLAN9061 Planning Procedures**

**Credit points:** 6  
**Teacher/Coordinator:** A/Prof. Nicole Gurr  
**Session:** S1 Intensive, S2 Intensive Classes: Four day intensive (9am-5pm)  
**Prohibitions:** PLAN9020, PLAN9044  
**Assessment:** Three written assessment items (100%). These are based on current case studies in the Sydney metropolitan area, and may be used for a portfolio of professional work.  
**Mode of delivery:** Block Mode  
**Note:** Enrolment limits by teaching resources. If your attempt to enrol online is unsuccessful please contact the Faculty of Architecture Student Administration Centre. Permission required in Semester One unless enrolled in Urban and Regional Planning.

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.

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.

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.

**PLAN9062 Planning Law**

**Credit points:** 6  
**Teacher/Coordinator:** Adj Prof Mary-Lynne Taylor  
**Session:** Semester 2  
**Classes:** 2hr lecture/wk Corequisites: PLAN9061  
**Prohibitions:** PLAN9021  
**Assessment:** Local government decision-making Report, Court Decision-making Report, and Heritage Decision-making Report (100%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

This unit aims to develop an understanding of planning law that enables competent professional practice in addressing a range of complex planning issues. 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.

**PLAN9063 Foundations of Environmental Planning**

**Credit points:** 6  
**Teacher/Coordinator:** Prof Alan Peters  
**Session:** Semester 1  
**Classes:** Two hours lecture and two hours seminar per week.  
**Prohibitions:** PLAN9027  
**Assessment:** Three reports and graphics, based on group work on a project, with individual submissions. Each equivalent to 2,000-2,500 words in length. Assessment (3x 33.3%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

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.

The unit is in three modules:

Module one: Concepts of the environment and environmental planning, deals with different environmental concerns and adapting issues (defence, 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.

Module two: Environmental Assessment, deals with 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.

Module three: Urban Development, deals with 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 a case study - planned metropolitan growth.

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.

**PLAN9064 Land Use and Infrastructure Planning**

**Credit points:** 6  
**Teacher/Coordinator:** Mr Martin Payne  
**Session:** Semester 2  
**Classes:** Two hours lecture per week.  
**Prohibitions:** PLAN9028  
**Assessment:** Three reports and graphics (100%), based on group work on a project, with individual submissions. Each equivalent to 2,000 to 2,500 words in length.  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

The unit is primarily concerned with planning, land use and infrastructure within 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.

This unit is in three modules, each of which is assessed.
1. Infrastructure planning and urban development: different forms of infrastructure; the role of infrastructure in creating good environments and urban development; the interdependence of infrastructure and urban development, how the need to manage the environment shapes infrastructure, government etc; regulation, pricing and demand management; orthodox water supply, sewerage, drains, roads, electricity, gas; emergent technologies and the significance for the design and management of development.

2. Land-use and transportation planning: transport and the space economy; accessibility, bid-rents and the distribution of activities; the emergence of transport technologies and their influence on urban form; the impacts of car travel on densities, dispersion, congestion etc; orthodox transport planning; transport systems management; demand management and travel pricing; traffic restraint and local area traffic management; mobility and accessibility; networks, centres, and development corridors; transit oriented development and urban form etc.

3. Urban development and public policy: reasons for government intervention, monopolies, market failures, positive and negative externalities, public goods; public finance, balance sheets and current accounts, assets and liabilities, capital and recurrent items, cash flow, borrowing and debt servicing, efficient pricing and the role of subsidies; pricing and regulation; budgets and implementation structures.

**PLAN9065 Resource and Environmental Management**

Credit points: 6  
Teacher/Coordinator: Dr Krishna Shrestha  
Session: S1  
Classes: Lectures plus discussion 2hrs/wk + consultation  
Assessment: essay of 2,500 words (40%); case study report of 3,000 words (45%); in-class group presentation at the end of the semester (10%); participation in group discussion (in class and WebCT) (5%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

The aims of this unit are (1) to understand basic principles and decision making tools of sustainable environmental and resource planning and management through social science perspective; (2) to apply principles of resource and environmental management to assess the impacts of development activities through case study discussion, and (3) to help students formulating strategies to address environmental and resource management issues and enhance environmental equity and sustainability, particularly with respect to conducting, managing and evaluating environmental impact assessments and addressing the issues of stakeholders participation in collaborative planning and management of environmental and natural resources in Australia. This unit is especially relevant to government agencies, community groups and also non-government organisations involved in environmental and resource planning and management at local, regional, state and national levels; to international conservation and environmental management organisations; and to consulting firms, including those that specialise in environmental assessment and management. Through lectures, case study analyses and discussions, this unit aims to enable students to explore and understand how political and economic processes at various scales can influence environmental and resource management decisions and outcomes at local and regional levels, affecting the nature and extent of social and ecological outcomes in relation to moving towards achieving sustainable environmental and resource management.

**PLAN9067 Metropolitan Planning**

This unit of study is not available in 2011  
Credit points: 6  
Teacher/Coordinator: Ms Kimberly Everett  
Session: S1  
Classes: 6 days intensive  
Prerequisites: 36 credit points  
Assessment: Assignment one: 25%, assignment two: 30%, assignment three: 40%, readings: 5%  
Mode of delivery: Block Mode

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.

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).

**PLAN9068 History and Theory in Urban Planning**

Credit points: 6  
Teacher/Coordinator: Mr Martin Payne  
Session: Semester 1  
Classes: lectures 2 hrs/wk  
Prohibitions: PLAN9031  
Assessment: 2000 word Essay, 2000 word Essay, and Oral Presentation (100%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit enables students to understand how the main concepts and practices of urban planning and development have evolved; appreciate different perspectives about the roles and purposes of planning; undertake basic historical research about urban planning and development issues; and prepare basic stories and arguments about practical planning issues.

Students will be able to: critically review and interpret planning documents; construct and present basic arguments, orally and in documents; access and engage with key literature and other sources of knowledge; and use basic conceptual frameworks about planning arguments and stories.

Contribution of unit of study to its program: this is an introductory, core unit.

**PLAN9069 Urban Design and Development Control**

Credit points: 6  
Teacher/Coordinator: Ms Kimberly Everett  
Session: Semester 1  
Classes: lectures 2 hrs/wk  
Prohibitions: PLAN9051  
Assessment: Reports, with supporting graphics (100%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

The unit aims to develop a professional standard of competence in the generation and implementation of urban design and development controls; and to demonstrate a critical and reflective awareness of the philosophies, concepts and practice of urban design and development control.

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 comparison and contrasting of desired design outcomes against appropriate controls.

Students should be able to prepare clear and concise development controls, assess and report on the physical and social impact of alternative urban design and development control strategies, and prepare and evaluate design proposals. By the completion of this unit students will be expected to: understand the nature, history, and evolution of development controls; have fundamental notions of good urban design; critically examine design strategies and development controls and make inferences about the type and quality of urban design they are likely (or not) to produce; and develop skills in understanding the implications of overlaying development controls over the built environment. It is expected that: each student will demonstrate critical skills for assessing the soundness of policies, regulations, norms, and codes; students will be able to prepare case studies, which demonstrate understanding of various forms of development controls, and the ability to apply these to urban design proposals.

**PLAN9071 Housing & Urban and Regional Development**

Credit points: 6  
Teacher/Coordinator: A/Prof. Nicole Gurrn  
Session: S1  
Classes: Four day intensive (9am-5pm)  
Prohibitions: ARCH9057  
Assessment: Two assignments (2x50%)  
Mode of delivery: Block Mode

This unit introduces the key policy and planning issues associated with the "production" and "consumption" of housing. These range from the physical location and sustainable design of new housing, through to the dynamics of the housing market, and the contribution of housing
This unit of study is not available in 2011

This unit focuses on emerging issues associated with the role of governments in housing, particularly the provision of housing assistance. The field of housing policy studies is extensive with a strong interdisciplinary base that provides a variety of theoretical and practical perspectives on housing issues facing professional housing workers, planners and architects working in Australia or abroad. The unit includes a comparative and historical perspective to increase awareness of differences in housing markets and housing needs, and to promote discussion of alternative approaches to housing policy. The unit will provide opportunities for students to discuss the policy making process and policy choices with practitioners working in different agencies and to analyse the drivers, objective and impacts of recent housing policy initiatives. Students will gain a comparative perspective on housing policy approaches using European and regional examples; and learn to analyse housing assistance needs and measures, including approaches for particular groups - for example housing for indigenous people and communities, housing models for people with support needs. The anticipated outcomes of the unit are to provide a conceptual framework for understanding the rationale for, and scope of, government intervention in housing; and to develop skills in developing and implementing policies that assist lower income earners and those with particular needs to access appropriate and affordable housing.

PLAN9073
GIS Based Planning Policy and Analysis

This unit of study is not available in 2011

Note: Department permission required for enrolment.

This unit is concerned with using GIS to analyse planning problems and undertake policy analyses. The unit will include a comprehensive introduction to mapping and the use of GIS: data structures, topology, projections, spatial and non-spatial queries. Australian census products will be described and students will be expected to analyse census statistics using GIS maps. The role of GIS in coordinating various forms of information for policy analyses, preparing master plans, in presenting information for development control, impact analyses and wider management purposes will also be covered. The use of GIS to support visualisation will be covered, using examples about designing development projects and planning instruments. Finally, the various forms of distributing maps to the public and policy-makers will be discussed.

The unit integrates the hands-on learning of GIS software with a ‘research-based’ approach. Teaching will involve short lectures, studios and workshops. Assessment will be on a series of smaller assignments and a larger report prepared by each student that integrates GIS-based (and other) graphics into a coherent policy analysis. In addition, each student will make oral presentations on their work in studio sessions.

PLAN9074
Public & Community Finance for Planners

This unit will cover the elements of public and community finance relevant to planners. The need for this unit has become more significant as planning policies shift from the regulatory towards direct engagement with the financial underpinnings of urban development. The unit will be divided into three modules. The first will cover the basics of business finance, including: the roles of equity and debt, analysing business finance statements (current account, balance sheets etc) and, understanding the role of depreciation, working capital, fixed capital and real estate finance. Students will learn to prepare basic feasibility studies using spreadsheets.

The second module will focus on public finance. This will include discussion of the regulation of the banking sector, bonding authority and bonding, public revenue sources including the rating system, and public decision making, including issues of discounting and alternative discount rates. It will also consider the governments’ roles in financing urban development, (land, infrastructure besides buildings etc) and, the related roles of departments and corporatised agencies with implementing public policy and managing urban development. The final module will focus on the financing arrangements between government and private sector agencies, including public-private partnerships and development agreements. It will consider different forms of organizations for undertaking and owning urban development, and examine innovative arrangements drawn from overseas experience and consider their relevance to Australia.

Class preparation: 12 hours each of the two weeks, assessment preparation: 40 hours/semester.
Research degrees

The Faculty of Architecture, Design and Planning offers three research degrees: the Master of Philosophy (Architecture), the Doctor of Philosophy and the Doctor of Science in Architecture. As well as the information in this Handbook candidates should also acquire a copy of the Postgraduate Research handbook available free from the Student Administration Centre or online at sydney.edu.au/architecture/CS/handbook.shtml. This publication is an important resource for policies and practical advice relating to your candidature.

Master of Philosophy (Architecture) (MPhil(Arch))
The research masters 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 (DScArchi)
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 three years or have had similar significant involvement in the teaching and research of the University.

Disciplines

The Faculty of Architecture, Design and Planning 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:

- Architecture and Allied Arts
- Architectural and Design Science
- Design Lab
- Urban and Regional Planning and Policy.

Each discipline is under the leadership of a senior academic staff member, and usually closely involves 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 among 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 will be 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 academic interests of their supervisor. However, it is up to the student to take an interest in that group or any other group.

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 service 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 Administration Centre.

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 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.
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 masters 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 supervision 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 English 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 (Research) to enable fieldwork to be completed.

Annual progress report and interview

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 are identified. Around the time of your first 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 this purpose may be found on the Current Students page of the faculty website. You will receive written confirmation of the suspension. Suspension of candidature is by semester, and except with the approval of the Associate Dean (Research) 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 while 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 of time

If, as your latest submission date approaches, it becomes obvious that you need more time, you are urged to discuss this with either the Student Administration Centre or the Associate Dean (Research) at the first available opportunity. Late submission of theses is a serious concern for the faculty and the earlier we know about it the easier it will be to take action to help you and us.

Coursework for research students

Students in research degrees may include up to 24 credit points of coursework in their studies, including Modes of Inquiry.

Students who require some background in a particular area that is of relevance to their research may, with the approval of their supervisor, request to enrol in other undergraduate or postgraduate units of study offered by this or other faculties.

The unit of study listed below is a probationary requirement for all MPhil and PhD students of the Faculty.

ARCF9001

Modes of Inquiry: Research & Scholarship

Architecture, Design and Planning

Credit points: 6
Teacher/Coordinator: Prof Richard de Dear
Session: Semester 1, Semester 2
Classes: Five hours average class time per week, activities comprise, lectures seminars workshops and tutorials
Assessment: written research proposal (50%), oral research proposal (50%)
Mode of delivery: Normal (lecture/tut/tutorial) Day

Note: Permission required unless enrolled in a research degree. This unit is a probationary requirement for all MPhil and PhD students in the Faculty of Architecture, Design and Planning.
Consulting in the areas of design computing and design cognition. The Design Lab carries out teaching, research, development and requiring an interdisciplinary approach to its computational support. The philosophy of the Design Lab is to consider design as a discipline in its own right, requiring an interdisciplinary approach to its computational support. The Design Lab carries out teaching, research, development and consulting in the areas of design computing and design cognition.

Areas of research interest

Architecture and Allied Arts

The faculty is recognised for excellence in the field of architectural history and theory with expertise in East Asian, European, American and Australian architecture. Research degrees may be completed in one of three key areas: Architectural History and Theory, Heritage Conservation or Housing. Research in Architectural History examines the creation and impact of the built environment with regard to technological, aesthetic, economic, social and cultural change. Research in architectural theory examines a diverse range of architectural topics through the lens of contemporary architectural theory. Heritage Conservation research studies encompass architectural, landscape and cultural heritage; this faculty was the first to teach courses in heritage conservation in Australia. Housing research is supported by the Ian Buchan Fell Housing Research Centre within the faculty and includes issues such as economic and community development in both Australia and in South East Asia.

For further information contact Associate Professor Chris Smith (chris.smith@sydney.edu.au) or any member of the discipline.

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.

Design Lab

The Design Lab (formerly the Key Centre of Design Computing and Cognition) was established by the University with funding provided by the former Department of Employment, Education and Training. The Design Lab’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 Design Lab is to consider design as a discipline in its own right, requiring an interdisciplinary approach to its computational support. The Design Lab carries out teaching, research, development and consulting in the areas of design computing and design cognition.

It’s website is at: sydney.edu.au/architecture/design_lab/.
systems and construction. It can also include studies in how people react to environments and the functional aspects of buildings in use. There are a number of leading researchers in Architectural Science within the faculty who provide expert supervision of research leading to higher degrees. It is possible to undertake some advanced coursework with your research studies.

For further information contact Professor Richard Hyde (richard.hyde@sydney.edu.au) or any member of the discipline.

Areas of research

Audio and Acoustics
- Acoustics of small rooms
- Reduction of noise entering through ventilation openings
- Neural network analysis of auditoria design
- Recording and reproduction of sound in rooms
- Controlling feedback in audio systems
- Increasing apparent reverberation time of rooms

Computational Intelligence Applications
- Integrated models for the synthesis of complex structural systems
- Applications of soft computing techniques in modelling and design of building structures
- Intelligent project management Information systems
- Smart Information systems for managing complex assets
- Modelling community perceptions using soft computing techniques

Facilities Management
- Building information modelling
- Productivity in workplaces
- Energy efficiency in the operations of buildings
- Occupant impact on the sustainability of housing

Illumination
- How people respond to the lit environment
- Gloom and discomfort glare
- Satisfaction with office working environments
- Individual lighting control for people with poor vision
- International Daylight Measurement Programme
- Sky luminance distribution and models
- Daylighting building interiors
- Solar availability access and over shadow
- Development of Australian/NZ/International lighting standards

Sustainable Design
- Form and space making potential of sustainable design
- History of climatic design in Australia
- Simulation of Building Environmental Performance
- Evaluation of Urban Microclimates
- POE of Indoor Thermal Comfort and Air Quality

Design Lab
The aim of the Design Lab is to foster design as a means of knowledge production in its own right. Our view is that design is fundamentally a knowledge-producing activity. Different from the natural sciences, which studies the world as it is, the humanities, which studies the human condition, and the arts, which explores the possibilities of expression, design is a study of the world the way it could be through the creation and interrogation of the designed world.

Research and creative practice in the Design Lab span a range of disciplines from interaction design and electronic arts to computer science and social science.

We undertake these projects through multiple intellectual channels, having the scientific gaze with its systems of empiricism sit comfortably alongside the artistic approach with its attention to conceptual possibilities. The projects themselves span politically charged and conceptually difficult terrains, dealing with questions on the biological innateness of design and its cultural and evolutionary pathways, the possibilities of experimental media at the juncture of art, society and technology, and speculative research into the inhabitation of the interface between humans and pervasive computing services.

Most important, the Design Lab provides a home where different people with different ways of knowing can connect, intersect and transform their work and their disciplines. It is a cultural mix of design theory and practice. The Design Lab provides the environment where the resources of research, of the production of knowledge, and of the interrogation of knowledge stem from design.

For further information contact Associate Professor Andy Dong (andy.dong@sydney.edu.au) or any member of the discipline.

Areas of research

Computational Design
- Agent-based design
- AI in design
- Artificial life
- Building information modeling (BIM)
- Computational design modelling
- Creative design systems
- Curious agents
- Emergence in design
- Evolutionary design
- Games design
- Generative design systems
- Mass customisation
- Multi-agent systems (MAS)
- Parametric modelling

Design Studies
- Design cognition
- Design discovery
- Design thinking
- Gestalt theory in design
- Productive thinking in designing

Electronic Art and Design
- Augmented reality performance
- Cyborg culture
- Dance and technology
- Data art
- Electronic art
- Electronic body art
- Embodiment in digital culture
- Generative music
- Generative sound
- Gestural interaction
- Information graphics
- Installation art
- Interactive audio
- Interactive design
- Interactive performance
- Locative media art and performance
- New media
- Sensor-based art
- Visual culture
- Visual design
- Wearable computing

Information Visualisation and Sonification
- Aesthetic sonification
- Agent-based visualisation
- Ambient display
- Auditory display
- Data art
- Information aesthetics
- Information graphics
- Information visualisation
- Persuasive computing
- Sonification
- Physical computing
Urban and Regional Planning and Policy
Urban and regional planning research has been established in the faculty since the late 1940s, covering a wide range of subject areas, including international studies with a focus on South East Asia and the Pacific; metropolitan planning; housing studies; regional policy and many other fields of policy and development. A recently established urban design program provides additional opportunities to conduct research into the design dimensions of urban form. Besides providing individual study areas for research, the faculty is home to an extensive library collection and the Planning Research Centre, which is an independent University foundation.

For further information contact Professor Alan Peters (alan.peters@sydney.edu.au) or any member of the discipline.

Areas of research
Urban planning and regional comparative planning systems
Collaborative environmental planning and management
Planning for environmental sustainability
Planning for housing accessibility, diversity and affordability
Coastal protection and growth
Australian Urban Land Use Planning Policy Monitor
Social and environmental justice
Community forestry
Political ecology
Natural resource management
Sustainable development and climate change
Urban policy and planning locally and internationally
Suburban economic development
Poverty and inequality
Rural communities
Community development and sustainable planning
Urban planning research and education
Gated communities
Tourism development in Pacific urban planning
Development aid policy
Environmental impact assessments (EIAs)
Housing policy in developing countries
Indigenous settlement and land tenure issues
Geographic Information Systems (GIS)
Economic development
Planning Support Systems
Visualisation
Commuting behaviour
Spatial decision making
Resolutions on the faculty for research degrees

The following resolutions of Senate and faculty constitute the main framework by which your candidature is governed and you should refer to them from time to time to check your progress to your award or when other circumstances arise that require adjudication.

The Doctor of Philosophy faculty rules should be read in conjunction with the University of Sydney (Doctor of Philosophy (PhD)) Rule 2004.

Master of Philosophy (Architecture)

Senate Resolutions

1 Course codes

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<th>Course title</th>
</tr>
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<tbody>
<tr>
<td>CC082</td>
<td>Master of Philosophy (Architecture)</td>
</tr>
</tbody>
</table>

2 Admission requirements

(1) An applicant for admission to candidature for the degree of Master of Philosophy (Architecture) shall:
   (a) be a graduate of the University of Sydney or hold qualifications deemed by the Dean to be equivalent; and
   (b) have completed any additional requirements at a standard acceptable to the Dean as set out in the Resolutions of the Faculty.

3 Requirements of the course

A candidate for a research degree shall proceed by research and submission of a thesis.

4 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.

5 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.
(3) The recommendation to permit a candidate to prepare for re-examination shall not be available for a thesis presented for re-examination.

Faculty Resolutions

1 Admission to candidature

(1) The Dean may admit to candidature a person who has:
   (a) qualifications equivalent to those required of a graduate of the University of Sydney;
   (b) submitted a statement of research interest in an area that the faculty can supervise; and
   (c) 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 faculty disciplines; 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 Handbook and may be found at http://www.usyd.edu.au/handbooks. The University of Sydney (Doctor of Philosophy (PhD)) Rule 2004 is of particular relevance. The faculty has resolutions additional to those of the Academic Board:

1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CB000/CB001</td>
<td>Doctor of Philosophy</td>
</tr>
</tbody>
</table>

2 Form of assessment

A candidate for a research degree shall proceed by research and submission of a thesis.

3 Admission to candidature

(1) The Dean may admit to candidature a person who has:
   (a) a master’s degree or a bachelor’s degree with first or second class honours;
   (b) submitted a statement of research interest in an area that the faculty can supervise; and
   (c) met the English language requirement as set by the faculty.

4 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.

5 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.
   (g) A candidate who has not satisfied the probationary requirements at the end of two semesters will have the candidature terminated.
   (h) 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).

6 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.

7 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.

8 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.
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