Master of Heritage Conservation

Unit of study descriptions

Certificate, Diploma and Master of Heritage Conservation

Core units

ARCH9028 Conservation Methods and Practices
Credit points: 12 Session: Semester 1 Classes: Lecture 4hrs/wk + site visits Assessment: Two assignments (2 x 50%) 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.

ARCH9075 New Design in Old Settings
Credit points: 6 Session: Semester 1 Classes: Lectures 2hrs/wk + 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.

ARCH9081 Heritage Law and Policy
Credit points: 6 Session: Semester 1 Classes: Lectures 2hrs/wk Assessment: Reports (2 x 50%) 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

ARCH9031 Research Report
Credit points: 12 Teacher/Coordinator: Program Director Session: Semester 1, Semester 2 Classes: Independent research under academic supervision. Assessment: Research proposal (10%), 10000 to 15000 word Report (90%). Final reports due by the end of the first week of the formal examination period. Mode of delivery: Supervision Note: Department permission required for enrolment. Note: Submit an Independent Study Approval Form, signed by your proposed supervisor, with your request to enrol. Available to Masters students only.

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.

ARCH9074
History and Theory of Conservation
Credit points: 6 Session: Semester 2 Classes: Lectures 2 hrs/wk Prohibitions: ARCH9003 Assessment: Seminar (40%); essay (60%) 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 and Eugène Viollet-le-Duc in France. The principal aims of the unit are to develop an understanding of the history and theoretical basis of the development if 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 the idea of conservation through time and in Western and non-Western traditions; an understanding of the development of Western traditions of architecture and garden design; and skills in the applying this knowledge in the assessment of cultural significance in the Australian and international context. Subject workload effort expected: class preparation three hours per week; assessment preparation 40 hours per semester.

Optional units

MARC4201
Modern Architectural History
Credit points: 6 Session: Semester 1 Classes: Lecture and tutorial contact, plus self-directed preparation and assignments, for a minimum total student commitment averaging 9 hours per week. 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.

ARCH9082
Conservation of Traditional Materials
Credit points: 6 Session: Semester 2 Classes: Lectures 2 hrs/wk (11 wks), site visits 2hrs/wk (2 wks) 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.

Class preparation: 1 hour/week, assessment preparation: 15-20 hours/semester

ARCH9084
Conservation Design Studio
Credit points: 6 Session: Semester 2 Classes: Studio 2 hrs/wk (10 wks), tutorial 2 hrs/wk (2 wks), site visit 2 hrs/wk (1wk) Corequisites: ARCH9075 (for student with non-design undergraduate degree) Assumed knowledge: BDesArch, MArch (for students pursuing the design stream of this elective) Assessment: For all students, submission of a written site analysis [1x Essay 1500-2000 words]; for Design-based students a 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 you attempt to enrol online is unsuccessful, please seek permission from the Student Administration Centre (SAC). 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

Please note that the following optional unit of study will not be offered in 2014:

ARCH9083
Conservation of Modern Materials
This unit of study is not available in 2014
Credit points: 6 Session: Semester 2 Classes: Lectures 2 hrs/wk (11 wks), site visits 2hrs/wk (2 wks) 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: 1 hour/week, assessment preparation: 15-20 hours/semester
## Master of Interaction Design and Electronic Arts

### Unit of study 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>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core units</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IDEA9101 IDEA Laboratory 1</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1a</td>
</tr>
<tr>
<td>IDEA9102 IDEA Studio 1</td>
<td>12</td>
<td>C IDEA9101</td>
<td></td>
<td></td>
<td>Students may incur materials costs in this unit.</td>
<td>Semester 1</td>
</tr>
<tr>
<td>IDEA9201 IDEA Laboratory 2</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2a</td>
</tr>
<tr>
<td>IDEA9202 IDEA Studio 2</td>
<td>12</td>
<td>C IDEA9201</td>
<td></td>
<td></td>
<td>Students may incur materials costs in this unit.</td>
<td>Semester 2</td>
</tr>
<tr>
<td>IDEA9302 IDEA Research Project</td>
<td>12</td>
<td>P 48 credit points including IDEA9102 and IDEA9202</td>
<td></td>
<td></td>
<td>Note: Department permission required for enrolment This unit of study is available to MIDEA students only. Students must seek permission to enrol from the Program Director before the start of the teaching semester.</td>
<td>Semester 1</td>
</tr>
<tr>
<td>IDEA9303 IDEA Dissertation</td>
<td>12</td>
<td>P 48 credit points including IDEA9102 and IDEA9202</td>
<td></td>
<td></td>
<td>C IDEA9302 This unit of study is available to MIDEA students only. Students must seek permission to enrol from the Program Director before the start of the teaching semester.</td>
<td>Semester 1</td>
</tr>
<tr>
<td>IDEA9311 IDEA Research Internship</td>
<td>12</td>
<td>P 48 credit points including IDEA9102 and IDEA9202</td>
<td></td>
<td></td>
<td>Note: Department permission required for enrolment Students must seek permission to enrol from the IDEA Director before the start of the teaching semester. Internship must end before end of semester. Advanced standing will not be granted for this unit of study.</td>
<td>Semester 1</td>
</tr>
<tr>
<td>IDEA9106 Design Thinking</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>IDEA9301 Graduation Studio</td>
<td>12</td>
<td>P 48 Credit points including IDEA9102 and IDEA9202</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>
Master of Interaction Design and Electronic Arts

Unit of study descriptions

Core units

IDEA9101
IDEA Laboratory 1
Credit points: 6  
Teacher/Coordinator: Dr Martin Tomitsch  
Session: Semester 1a  
Classes: Intensive Mode: Weeks 1, 3 and 5 lectures totalling 13 hours and tutorials totalling 26 hours  
Mode of delivery: Block Mode

The aim of this unit of study is the learning of key technical skills for prototyping and building interactive digital media within a creative design framework. The unit provides an introduction to the fundamentals of various software and hardware construction tools, and the technological platforms available for building sensor-based interfaces. The lab sessions will be conducted as a series of intensive lectures/tutorials during the first half of the semester. Students will gain practical experience through a series of exercises and assignments. For those students enrolled in IDEA9102 IDEA Studio 1, it will provide the foundation for the technical implementation of the studio project.

IDEA9102
IDEA Studio 1
Credit points: 12  
Teacher/Coordinator: Dr Martin Tomitsch  
Session: Semester 1  
Classes: Studio 6 hrs/wk  
Corequisites: IDEA9101  
Mode of delivery: Normal (lecture/lab/tutorial) Day  
Note: Students may incur materials costs in this unit.

The aim of the studio is to explore new interaction possibilities offered by emerging digital technologies through a design-led approach. Each studio is based around one or more design projects, which address a specialised area of study, supported by lectures and seminars to introduce the relevant theory, knowledge and design precedents. The specialized areas of study will vary from semester to semester, ranging for example from small-scale wearable devices to large-scale environments, and will reflect contemporary issues in interaction, art, design, culture and technology. The studio aims to develop the student's conceptual design abilities together with their technical skills, within the framework of a highly creative, research-based and human-centred design process. Students will be expected to apply interaction design methodologies to their project work and follow a design-oriented approach to the development of hardware and software, through experimentation and iterative prototyping.

IDEA9201
IDEA Laboratory 2
Credit points: 6  
Teacher/Coordinator: Dr Caitlin de Berigny Wall  
Session: Semester 2a  
Classes: Intensive Mode: Weeks 1, 3 and 5, lectures totalling 13 hours, tutorials totalling 26 hours  
Mode of delivery: Block Mode

The aim of this unit of study is the learning of key technical skills for prototyping and building interactive digital media within a creative design framework. The unit provides an introduction to the fundamentals of various software and hardware construction tools, and the technological platforms available for building sensor-based interfaces. The lab sessions will be conducted as a series of intensive lectures/tutorials during the first half of the semester. Students will gain practical experience through a series of exercises and assignments. For those students enrolled in IDEA9202 IDEA Studio 2, it will provide the foundation for the technical implementation of the studio project.

IDEA9202
IDEA Studio 2
Credit points: 12  
Teacher/Coordinator: Dr Caitlin de Berigny Wall  
Session: Semester 2  
Classes: Studio 6 hrs/wk  
Corequisites: IDEA9201  
Mode of delivery: Normal (lecture/lab/tutorial) Day  
Note: Students may incur materials costs in this unit.

The aim of the studio is to explore new interaction possibilities offered by emerging digital technologies through a design-led approach. Each studio is based around one or more design projects, which address a specialised area of study, supported by lectures and seminars to introduce the relevant theory, knowledge and design precedents. The specialized areas of study will vary from semester to semester, ranging for example from small-scale wearable devices to large-scale environments, and will reflect contemporary issues in interaction, art, design, culture and technology. The studio aims to develop the student's conceptual design abilities together with their technical skills, within the framework of a highly creative, research-based and human-centred design process. Students will be expected to apply interaction design methodologies to their project work and follow a design-oriented approach to the development of hardware and software, through experimentation and iterative prototyping.

IDEA9302
IDEA Research Project
Credit points: 12  
Teacher/Coordinator: Dr Lian Loke  
Session: Semester 1, Semester 2  
Classes: Group supervision 1 hr/wk  
Prerequisites: 48 credit points including IDEA9102 and IDEA9202  
Mode of delivery: Normal (lecture/lab/tutorial) Day  
Note: Department permission required for enrolment. Note: This unit of study is available to MIDEA students only. Students must seek permission to enrol from the Program Director before the start of the teaching semester.

The research project offers students the opportunity to work on an individual research project exploring current problems and issues in a wide range of application areas that would benefit from an inter-disciplinary design research approach to design, technology and human-computer interaction. Students can choose to follow one of the primary types of design research: design (a fundamental component of the research is the design and implementation of an artefact/system); empirical (empirical data gathering is required to understand a phenomenon); model (a computational model is generated to understand a phenomenon); and studio-based (creative/experimental design or artefact is produced for exhibition). Students must prepare a research proposal outlining the research objectives and questions, a brief literature review, the research methodology and a timeline.

This unit of study can be taken alone (Option 1) for students wishing to focus on the practice of design research, or in conjunction with IDEA9303 Research Dissertation (Option 2) for students wishing to develop their academic research capacity and with an interest in further postgraduate research study.

For Option 1, students must submit documentation of their design work and built artefacts produced during the research. The designed/built artefacts will be assessed on the merits of their underlying design rationale or original conceptual thinking, and their implementation in the form of software, hardware, theoretical discourse or other physical manifestation.

For Option 2, a single result is given for the combined project and dissertation see IDEA9303 for the assessment criteria.
IDEA9303 IDEA Dissertation
Credit points: 12 Teacher/Coordinator: Dr Lian Loke Session: Semester 1, Semester 2 Classes: Group supervision 1 hr/wk Prerequisites: 48 credit points including IDEA9102 and IDEA9202 Corequisites: IDEA9302 Mode of delivery: Supervision
Note: This unit of study is available to MIDEA students only. Students must seek permission to enrol from the Program Director before the start of the teaching semester.

The research project/dissertation offers students the opportunity to work on an individual research project exploring current problems and issues in a wide range of application areas that would benefit from an inter-disciplinary design research approach to design, technology and human-computer interaction. Students can choose to follow one of the primary types of design research: design (a fundamental component of the research is the design and implementation of an artefact/system); empirical (empirical data gathering is required to understand a phenomenon); model (a computational model is generated to understand a phenomenon); and studio-based (creative/experimental design or artform is produced for exhibition).

Students must prepare a research proposal outlining the research objectives and questions, a brief literature review, the research methodology and a timeline. At completion, students must submit a written dissertation and documentation of any designed/built artefacts produced during the research. A research dissertation should be 8,000 to 10,000 words in length.

The designed/built artefacts will be assessed on the merits of their underlying design rationale or original conceptual thinking, and their implementation in the form of software, hardware, theoretical discourse or other physical manifestation. The dissertation is assessed on its design methodology/rationale, empirical evaluation, analysis or description within related theories or critical reflection, and the presentation, using appropriate visual, written, verbal and multimedia presentation techniques. IDEA9302 IDEA Research Project and IDEA9303 IDEA Dissertation are not assessed separately. A single result is given for the combined project and dissertation.

IDEA9311 IDEA Research Internship
Credit points: 12 Teacher/Coordinator: Dr Lian Loke Session: Semester 1, Semester 2 Classes: Min. 8 hrs/semester group supervision; 2 hrs/wk supervision by private partner Prerequisites: 48 credit points including IDEA9102 and IDEA9202 Mode of delivery: Professional Practice
Note: Department permission required for enrolment. Note: Students must seek permission to enrol from the IDEA Director 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 project objectives, the approach, the intended outcomes and timeline of the internship, and the agreement from the private partner. The proposal must describe how the outcomes 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 the IDEA program. 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, together with a critical reflection on their design process (of at least 1000 words); a written report describing the design concept, rationale, design methodology, the development structure, and an evaluation of the design work undertaken at the internship (of at least 5000 words); and mixed media documentation of the work. The student is expected to present their work to peers and assessors. The academic supervisor, the program coordinator and the private partner will jointly assess the work. Students must seek permission to enrol from the program coordinator before the start of the teaching semester.

It is at the sole discretion of the Program Director to approve the private partner and project. Approval must be sought before enrolling. Internship must end before end of semester. Credit will not be granted for this unit of study.

IDEA9106 Design Thinking
Credit points: 6 Teacher/Coordinator: Dr Lian Loke Session: Semester 1 Classes: Seminar 3 hrs/wk Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit of study aims to introduce students to design thinking and how it can be productively applied to different design situations, in both traditional design contexts and to the broader issues faced in contemporary society. Students will acquire the following learning outcomes:

1. An appreciation of the role of design thinking and strategy in traditional and cross-disciplinary contexts
2. Theoretical and practical understanding and application of design theories, methodologies and methods, with a particular emphasis on human-centred design
3. Demonstration of ideation and concept development to innovate solutions to complex problems
4. Awareness of design processes and cognition in collaborative, inter-disciplinary teams
5. Demonstration of persuasive oral/visual communication techniques

IDEA9301 Graduation Studio
Credit points: 12 Teacher/Coordinator: Dr Rob Saunders Session: Semester 1, Semester 2 Classes: Studio six hours per week. Prerequisites: 48 credit points including IDEA9102 and IDEA9202 Mode of delivery: Normal (lecture/lab/tutorial) Day

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 an industry-focused brief. Students will work in small teams or individually to produce a design proposal and solution that addresses industry relevant issues and challenges and incorporates innovative interactions and applications of emergent technologies. The submitted design work should be of high quality suitable for professional presentation and portfolio.
## Master of Urban Design

### Certificate, Diploma and Master of Urban Design

#### Without specialisation

<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><strong>Core units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9100 Introduction to Urban Design</td>
<td>6</td>
<td>Students may be granted advanced standing based on portfolio.</td>
<td></td>
<td></td>
<td></td>
<td>Int February Int July</td>
</tr>
<tr>
<td>ARCH9080 Urban Ecology, Design and Planning</td>
<td>6</td>
<td>N PLAN9048</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2a</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>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9068 History &amp; Theory of Planning &amp; Design</td>
<td>6</td>
<td>N PLAN9031, ARCH9060</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9001 Urban Design Studio A</td>
<td>12</td>
<td>A ARCH9100</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 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 Semester 2</td>
</tr>
<tr>
<td>ARCH9060 Urban Design Report</td>
<td>12</td>
<td>P 48 credit points including ARCH9001 N ARCH9031, ARCH90045, ARCH9046, PLAN9010, PLAN9011, PLAN9018 Note: Department permission required for enrolment Submit an Independent Study Approval Form to the Student Administration Centre (SAC), 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></td>
<td></td>
<td>Semester 1 Semester 2</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.

<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><strong>Core units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9100 Introduction to Urban Design</td>
<td>6</td>
<td>Students may be granted advanced standing based on portfolio.</td>
<td></td>
<td></td>
<td></td>
<td>Int February Int July</td>
</tr>
<tr>
<td>ARCH9080 Urban Ecology, Design and Planning</td>
<td>6</td>
<td>N PLAN9048</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2a</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>PLAN9068 History &amp; Theory of Planning &amp; Design</td>
<td>6</td>
<td>N PLAN9031, ARCH9060</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9001 Urban Design Studio A</td>
<td>12</td>
<td>A ARCH9100</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 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 Semester 2</td>
</tr>
<tr>
<td>MARC4001 Urban Architecture Research Studio</td>
<td>12</td>
<td>This studio cannot be taken in the same semester as MARC4002 or MARC4003. Students may incur materials costs in this unit.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<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>
<td></td>
<td></td>
<td></td>
<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>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MARC4102 Modern Architectural Theory</td>
<td>6</td>
<td>N ARCH6104, ARCH9048, ARCH9049</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MARC4201 Modern Architectural History</td>
<td>6</td>
<td>N ARCH4102</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9100 Introduction to Urban Design</td>
<td>6</td>
<td>Students may be granted advanced standing based on portfolio.</td>
<td></td>
<td></td>
<td></td>
<td>Int February Int July</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>
<tr>
<td>--------------------------------------------------</td>
<td>---------------</td>
<td>----------------------</td>
<td>------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>ARCH9080 Urban Ecology, Design and Planning</td>
<td>6</td>
<td></td>
<td>N PLAN9048</td>
<td></td>
<td></td>
<td>Semester 2a</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 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>PLAN9068 History &amp; Theory of Planning &amp; Design</td>
<td>6</td>
<td></td>
<td>N PLAN9031, ARCH9060</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9001 Urban Design Studio A</td>
<td>12</td>
<td>A ARCH9100</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 1</td>
</tr>
<tr>
<td>PLAN9061 Planning Principles, Systems &amp; Practice</td>
<td>6</td>
<td></td>
<td>N PLAN9020, PLAN9044</td>
<td>Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful please contact the Student Administration Centre (SAC). Permission required in Semester 1 unless enrolled in Urban and Regional Planning.</td>
<td></td>
<td>Semester 1 Semester 2a</td>
</tr>
<tr>
<td>PLAN9062 Planning Law</td>
<td>6</td>
<td>C PLAN90061</td>
<td>N PLAN9021</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9063 Strategic Planning and Design</td>
<td>6</td>
<td></td>
<td>N PLAN9027</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>PLAN9045 Economics for Planners</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>PLAN9064 Land Use and Infrastructure Planning</td>
<td>6</td>
<td>A Some prior knowledge of urban design/place making principles as learned in the core unit ARCH 9100</td>
<td>N PLAN9028</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>
Master of Urban Design

Unit of study descriptions

Certificate, Diploma and Master of Urban Design

Without specialisation

Core units

ARCH9100
Introduction to Urban Design
Credit points: 6
Teacher/Coordinator: Assoc Prof Rod Simpson
Session: Int February, Int July
Classes: Intensive delivery for total of 38 hours
Assessment: Site and place analysis (20%), graphic and visual representation (15%), numerical analysis (15%), 3 dimensional computer modelling (15%), ideas for placemaking comprising an illustrated report (30%) Mode of delivery: Block Mode

Note: Students may be granted advanced standing based on portfolio.

This introductory unit of study will provide students with the necessary skills to participate effectively in the urban design studios and will include site, spatial and public domain analysis, map and plan reading, visual, verbal and written communication techniques, and basic computer-based 3 dimensional modelling and numerical analysis. This unit will introduce students to the objectives and principles of urban design by analysing a number of public spaces, the spaces between buildings and the public domain and urban conditions in Sydney.

ARCH9080
Urban Ecology, Design and Planning
Credit points: 6
Teacher/Coordinator: Assoc Prof Rod Simpson/Assoc Prof Paul Jones
Session: Semester 2a
Classes: Intensive block mode: Lectures 3 hrs/wk for 7 weeks, plus self-directed preparation and assignments, for a minimum total student commitment of approximately 35 hours
Prohibitions: PLAN9048
Assessment: Assignment (25%), Presentation (25%), Design-related report (50%) Mode of delivery: Block Mode

This unit will introduce the conceptual bases for sustainable development and explore how principles of sustainability can be introduced into land use planning and urban design, including environmental management and multi-criteria evaluation methodologies in three modules:

Module 1 will examine the evolution of urban areas in relation to their biophysical setting using the Sydney metropolitan area as a case study. This will lead to an understanding and appreciation of the urban ecology of the city in terms of the flows of materials, resources and energy, and the challenges presented by climate change and peak oil.

Module 2 will introduce principles of sustainability and the history and development of concepts of urban sustainability.

Module 3 will introduce methods and frameworks for evaluating and measuring sustainability.

ARCH9063
Urban Morphology
Credit points: 8
Teacher/Coordinator: Assoc Prof Rod Simpson
Session: Semester 2
Classes: Lecture 1 hr/wk; tutorial 1 hr/wk (weeks 1-9); tutorial 2 hrs/wk (weeks 10-13)
Prohibitions: ARCH9021
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 typology. 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 sensitivities 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) 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.

PLAN9068
History & Theory of Planning & Design
Credit points: 6
Teacher/Coordinator: Assoc Prof Paul Jones and Assoc Prof Rod Simpson
Session: Semester 1
Classes: Lecture 2 hrs/wk
Prohibitions: PLAN9031, ARCH9060
Assessment: Assignment 1 short questions (35%); group work local area analysis (30%); analytical essay (25%); attendance and class participation (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit is in two overlapping modules, each of which is assessed. Module one 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 Australian urban planning and development issues, and prepare basic stories and arguments about practical planning issues and current theories. There is a strong emphasis on enriching the ability of students to better appreciate urban form, structure and planning practice generally by analysing such form, structure and process through the lens of history (as ‘snapshots’ in time), and the understanding planning drivers that shape and express such urban change. Interpreting planning practice and what this means and reflects (such as underlying values, norms attitudes, public interest, etc) is a key element of this module. Concurrent with module one, module two familiarises 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 this module, key urban design ‘classics’ are discussed critically as history, design sources and tools.
Students will be able to: critically review and interpret key planning and urban design texts, 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 for both the overlapping fields of urban planning and urban design.

This is an introductory core unit for both the Urban Planning and Urban Design degrees.

**ARCH9001 Urban Design Studio A**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Rod Simpson  
**Session:** Semester 1, Semester 2  
**Classes:** Lecture 1 hr/wk; tutorial 3 hrs/ek  
**Prerequisites:** ARCH9900, ARCH9901  
**Assessment:** Group assignments x 3 (10%, 20%, 40%); individual assignment (30%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

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 inter-disciplinary group work an essential part. Visionary and innovative approaches are encouraged.

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.

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.

**ARCH9002 Urban Design Studio B**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Rod Simpson  
**Session:** Semester 1, Semester 2  
**Classes:** Lecture 1 hr/ek; tutorial 3 hrs/ek  
**Prerequisites:** ARCH9900  
**Assessment:** Group assignments x 3 (10%), (20%), (40%); individual assignment (30%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

Students will be expected to demonstrate appropriate (professional-level) problem recognition, investigative, analytical, interpretive, 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 inter-disciplinary 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.

**ARCH9060 Urban Design Report**

**Credit points:** 12  
**Teacher/Coordinator:** Assoc Prof Rod Simpson  
**Session:** Semester 1, Semester 2  
**Classes:** Individual supervision (approx. 3 hr/ek)  
**Prerequisites:** 48 credit points including ARCH9001, ARCH9003, ARCH9045, ARCH9046, PLAN9010, PLAN9011, PLAN9018  
**Assessment:** Urban design report (approx. 10,000 to 15,000 words) (90%); presentation (10%)  
**Mode of delivery:** Normal (lecture/lab/tutorial) Day

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.

**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**

**ARCH9100 Introduction to Urban Design**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof Rod Simpson  
**Session:** Int February, Int July  
**Classes:** Intensive delivery for total of 38 hours  
**Assessment:** Site and place analysis (25%), graphic and visual representation (15%), numerical analysis (15%), 3 dimensional computer modelling (15%), ideas for placemaking comprising an illustrated report (30%)  
**Mode of delivery:** Block Mode

Note: Students may be granted advanced standing based on portfolio.

This introductory unit of study will provide students with the necessary skills to participate effectively in the urban design studios and will include site, spatial and public domain analysis, map and plan reading, visual, verbal and written communication techniques, and basic computer-based 3 dimensional modelling and numerical analysis. This unit will introduce students to the objectives and principles of urban design by analysing a number of public spaces, the spaces between buildings and the public domain and urban conditions in Sydney.
ARCH9080  
Urban Ecology, Design and Planning  
Credit points: 6  
Teacher/Coordinator: Assoc Prof Rod Simpson/Assoc Prof Paul Jones  
Session: Semester 2  
Class: Intensive block mode; Lectures 3 hrs/wk for 7 weeks, plus self-directed preparation and assignments, for a minimum total student commitment of approximately 35 hours  
Prohibitions: PLAN9048  
Assessment: Assignment (25%), Presentation (25%), Design-related report (50%)  
Mode of delivery: Block Mode  

This unit will introduce the conceptual bases for sustainable development and explore how principles of sustainability can be introduced into land use planning and urban design, including environmental management and multi-criteria evaluation methodologies in three modules:  
Module 1 will examine the evolution of urban areas in relation to their biophysical setting using the Sydney metropolitan area as a case study. This will lead to an understanding and appreciation of the urban ecology of the city in terms of the flows of materials, resources and energy, and the challenges presented by climate change and peak oil.  
Module 2 will introduce principles of sustainability and the history and development of concepts of urban sustainability.  
Module 3 will introduce methods and frameworks for evaluating and measuring sustainability.  

ARCH9062  
Urban Design - Ideas and Methods  
This unit of study is not available in 2014  
Credit points: 6  
Teacher/Coordinator: Dr Lee Stickells  
Session: Semester 1  
Class: Lect 2-3 hrs/wk  
Prohibitions: ARCH9022  
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" (e.g. 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.  

PLAN9068  
History & Theory of Planning & Design  
Credit points: 6  
Teacher/Coordinator: Assoc Prof Paul Jones and Assoc Prof Rod Simpson  
Session: Semester 1  
Class: Lecture 2 hrs/wk  
Prohibitions: PLAN9031, ARCH9060  
Assessment: Assignment 1 short questions (35%); group work local area analysis (30%); analytical essay (25%); attendance and class participation (10%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day  

This unit is in two overlapping modules, each of which is assessed. Module one 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 Australian urban planning and development issues, and prepare basic stories and arguments about practical planning issues and current theories. There is a strong emphasis on enriching the ability of students to better appreciate urban form, structure and planning practice generally by analysing such form, structure and process through the lens of history (as "snapshots" in time), and the understanding planning drivers that shape and express such urban change. Interpreting planning practice and what this means and reflects (such as underlying values, norms, attitudes, public interest, etc) is a key element of this module.  

Concurrent with module one, module two familiarises 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 this module, key urban design "classics" are discussed critically as history, design sources and tools. Students will be able to: critically review and interpret key planning and urban design texts, 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 for both the overlapping fields of urban planning and urban design.  

This is an introductory core unit for both the Urban Planning and Urban Design degrees.  

ARCH9001  
Urban Design Studio A  
Credit points: 12  
Teacher/Coordinator: Assoc Prof Rod Simpson  
Session: Semester 1, Semester 2  
Class: Lecture 1 hr/wk; tutorial 3 hrs/wk  
Assumed knowledge: ARCH9100  
Assessment: Group assignments x 3 (10%, 20%, 40%); individual assignment (30%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day  

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 inter-disciplinary group work an essential part. Visionary and innovative approaches are encouraged.  

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.  

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.  

ARCH9002  
Urban Design Studio B  
Credit points: 12  
Teacher/Coordinator: Assoc Prof Rod Simpson  
Session: Semester 1, Semester 2  
Class: Lecture 1 hr/wk; tutorial 3 hrs/wk  
Prerequisites: ARCH9001  
Assessment: Group assignments x 3 (10%, 20%), (40%); individual assignment (30%)  
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 inter-disciplinary 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.

MARC4001
Urban Architecture Research Studio
Credit points: 12 Teacher/Coordinator: Dr Lee Stiekels and Dr Peter Armstrong Session: Semester 1, Semester 2 Classes: Lecture and studio contact (technical consultants and demonstrations as required), plus self-directed preparation and assignments, for a minimum student commitment averaging 18 hours per week. Assessment: Portfolio (100%) Mode of delivery: Normal (lecture/lab/tutorial) Day
Note: This studio cannot be taken in the same semester as MARC4002 or MARC4003. Students may incur materials costs in this unit.

The studio examines the role and agency of architecture in the urban context - interrogating the internal and external parameters that act on the design process at incremental urban scales and intensities and engaging with the societal, financial, legislative and managerial frameworks that shape urban development. The studio will prompt students to develop critical positions in regard to urban issues and to extend and explore those positions through the architectural design process.

MARC4001 Urban Architecture Research Studio, MARC4002 Sustainable Architecture Research Studio and MARC4003 Digital Architecture Research Studio 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/Daniel Ryan Session: Semester 1, Semester 2 Classes: Lecture and studio contact (technical consultants and demonstrations as required), plus self-directed preparation and assignments, for a minimum total student commitment averaging 18 hours per week. 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.

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 Urban Architecture Research Studio, MARC4002 Sustainable Architecture Research Studio and MARC4003 Digital Architecture Research Studio 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 Dagmar Reinhardt Session: Semester 1, Semester 2 Classes: Lecture and studio contact (technical consultants and demonstrations as required), plus self-directed preparation and assignments, for a minimum total student commitment averaging 18 hours per week. 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 mediation 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 Urban Architecture Research Studio, MARC4002 Sustainable Architecture Research Studio and MARC4003 Digital Architecture Research Studio 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.
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.

MARC4102
Modern Architectural Theory

Credit points: 6 Session: Semester 2 Classes: Lecture and tutorial contact, plus self-directed preparation and assignments, for a minimum total student commitment averaging 9 hours per week. Prohibitions: ARCH6104, ARCH9046, 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 represented within 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 Session: Semester 1 Classes: Lecture and tutorial contact, plus self-directed preparation and assignments, for a minimum total student commitment averaging 9 hours per week. 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.

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.

Core units

ARCH9100
Introduction to Urban Design

Credit points: 6 Teacher/Coordinator: Assoc Prof Rod Simpson Session: Int February, Int July Classes: Intensive block mode for total of 38 hours Assessment: Site and place analysis (25%), graphic and visual representation (15%), numerical analysis (15%), 3 dimensional computer modelling (15%), ideas for placemaking comprising an illustrated report (30%) Mode of delivery: Block Mode

Note: Students may be granted advanced standing based on portfolio.

This introductory unit of study will provide students with the necessary skills to participate effectively in the urban design studios and will include site, spatial and public domain analysis, map and plan reading, visual, verbal and written communication techniques, and basic computer-based 3 dimensional modelling and numerical analysis. This unit will introduce students to the objectives and principles of urban design by analysing a number of public spaces, the spaces between buildings and the public domain and urban conditions in Sydney.

ARCH9080
Urban Ecology, Design and Planning

Credit points: 6 Teacher/Coordinator: Assoc Prof Rod Simpson/Assoc Prof Paul Jones Session: Semester 2 Classes: Intensive block mode: Lectures 3 hrs/wk for 7 weeks, plus self-directed preparation and assignments, for a minimum total student commitment of approximately 35 hours Prohibitions: PLAN9048 Assessment: Assignment (25%), Presentation (25%), Design-related report (50%) Mode of delivery: Block Mode

This unit will introduce the conceptual bases for sustainable development and explore how principles of sustainability can be introduced into land use planning and urban design, including environmental management and multi-criteria evaluation methodologies in three modules:

Module 1 will examine the evolution of urban areas in relation to their biophysical setting using the Sydney metropolitan area as a case study. This will lead to an understanding and appreciation of the urban ecology of the city in terms of the flows of materials, resources and energy, and the challenges presented by climate change and peak oil.

Module 2 will introduce principles of sustainability and the history and development of concepts of urban sustainability.

Module 3 will introduce methods and frameworks for evaluating and measuring sustainability.

ARCH9062
Urban Design - Ideas and Methods

This unit of study is not available in 2014

Credit points: 6 Teacher/Coordinator: Dr Lee Stickells Session: Semester 1 Classes: Lec 2-3hrs/wk Prohibitions: ARCH9022 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: 8
Teacher/Coordinator: Assoc Prof Rod Simpson
Session: Semester 1, Semester 2
Classes: Lecture 2 hrs/wk; tutorial 1 hr/wk (weeks 1-9); tutorial 2 hrs/wk (weeks 10-13)
Prohibitions: ARCH9021
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 typology. 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) which emphasizes 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.

PLAN9068
History & Theory of Planning & Design
Credit points: 6
Teacher/Coordinator: Assoc Prof Paul Jones and Assoc Prof Rod Simpson
Session: Semester 1, Lecture 1 hr/wk; tutorial 3 hrs/wk
Prohibitions: PLAN9031, ARCH9060
Assessment: Assignment 1 short questions (35%); group work local area analysis (30%); analytical essay (25%); attendance and class participation (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit is in two overlapping modules, each of which is assessed.

Module one 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 Australian urban planning and development issues, and prepare basic stories and arguments about practical planning issues and current theories. There is a strong emphasis on enriching the ability of students to better appreciate urban form, structure and planning practice generally by analysing such form, structure and process through the lens of history (as 'snapshots' in time), and the understanding planning drivers that shape and express such urban change. Interpreting planning practice and what this means and reflects (such as underlying values, norms attitudes, public interest, etc) is a key element of this module.

Concurrent with module one, module two familiarises 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 this module, key urban design 'classics' are discussed critically as history, design sources and tools. Students will be able to: critically review and interpret key planning and urban design texts, 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 for both the overlapping fields of urban planning and urban design.

This is an introductory core unit for both the Urban Planning and Urban Design degrees.

ARCH9001
Urban Design Studio A
Credit points: 12
Teacher/Coordinator: Assoc Prof Rod Simpson
Session: Semester 1, Semester 2
Classes: Lecture 1 hr/wk; tutorial 3 hrs/wk
Assumed knowledge: ARCH9000
Assessment: Group assignments x 3 (10%, 20%, 40%); individual assignment (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

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 inter-disciplinary group work an essential part. Visionary and innovative approaches are encouraged.

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.

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.

ARCH9002
Urban Design Studio B
Credit points: 12
Teacher/Coordinator: Assoc Prof Rod Simpson
Session: Semester 1, Semester 2
Classes: Lecture 1 hr/wk; tutorial 3 hrs/wk
Prerequisites: ARCH9001
Assessment: Group assignments x 3 (10%), (20%), (40%); individual assignment (30%) 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 inter-disciplinary 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
PLAN9061
Planning Principles, Systems & Practice
Credit points: 6 Teacher/Coordinator: Assoc Prof Nicole Gurrnan Session: Semester 1, Semester 2a Classes: 4 day intensive (9am-5pm) Prohibitions: PLAN9020, PLAN9044 Assessment: Assignment 1 (40%); assignment 2/presentation (10%); assignment 3 (50%) Mode of delivery: Block Mode Note: Enrolment numbers limited by teaching resources. If your attempt to enrol online is unsuccessful please contact the Student Administration Centre (SAC). Permission required in Semester 1 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; the systems for land use planning and environmental management in Australia, and the practice of statutory planning and development assessment 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. You will also be able to assess the social, economic, and environmental impacts of basic planning proposals, and justify these recommendations in professional planning reports. In preparing for professional practice you will gain an understanding of the principles, techniques and requirements for public participation in environmental planning and assessment; and 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.

PLAN9062
Planning Law
Credit points: 6 Teacher/Coordinator: Mary-Lynne Taylor Session: Semester 2 Classes: Lecture 2 hrs/wk, seminar 2 hrs/wk. An additional hour of tuition time may be assigned for introduction to graphic plan making. Prohibitions: PLAN9028 Assumed knowledge: Some prior knowledge of urban design/place making principles as learnt in the core unit ARCH 9100 Assessment: Two illustrated reports, each equivalent to 2,000 to 2,500 words, consisting of 1 x group work on a project (50%) and 1 x individual report (40%); class attendance and participation (10%) 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
Strategic Planning and Design
Credit points: 6 Teacher/Coordinator: Prof Peter Phibbs Session: Semester 1 Classes: Lectures 2 hrs/wk, seminar 2 hrs/wk. An additional hour of tuition time may be assigned. Prohibitions: PLAN9027 Assessment: Three reports and a graphics, bar charts, on a project, with individual projects of equal length. Assessment (2 x 30%, 1 x 40%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of PLAN9063 Strategic Planning and Design is to provide students with grounding in the core knowledge and skills needed to practice as a contemporary planner. A key emphasis in the unit is understanding the skills needed to undertake strategic planning at a range of levels (both process and content). Strategic planning in one form or other is a generic process that underpins much of the work that planners and urban designers are involved in at varying spatial levels. This course will provide students with the basic skills required to function as a planner and it will also act as an introduction to a number of other units in the program by highlighting the connection between the work of a planner and the need to understand a range of different knowledge and skill areas. The basic skills which will be covered include basic demographic analysis, graphic presentation, governance audits, consultation strategies and survey tools, economic analysis, and GIS. In addition, this Unit of Study will enable students to develop generic skills such as group discussion, productive group work and organisation, negotiation skills and information literacy skills. This is an introductory core unit for the Urban Planning degree and an elective for the Urban Design degree.

PLAN9045
Economics for Planners
Credit points: 6 Teacher/Coordinator: Prof Peter Phibbs Session: Semester 2 Classes: Lecture 2 hrs/wk Assessment: 2 x 1 individual written reports of 2,000 words (70%); 1 x group presentation and report (30%) Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of PLAN9045 Economics for Planners is to introduce the key economic theories, processes and techniques used by contemporary urban planners. The Unit of Study has two parts. In the first part of the unit, students are introduced to the economic drivers shaping city and regional development outcomes, and the location and form of different land uses and how they evolve. The second part of the unit equips students with core technical skills, including project evaluation, economic impact analysis, development feasibility, and introductory aspects of public finance.

PLAN9064
Land Use and Infrastructure Planning
Credit points: 6 Teacher/Coordinator: Assoc Prof Paul Jones Session: Semester 2 Classes: Lecture 2 hrs/wk. Additional tuition time may be assigned for introduction to graphic plan making. Prohibitions: PLAN9028 Assumed knowledge: Some prior knowledge of urban design/place making principles as learnt in the core unit ARCH 9100 Assessment: Two illustrated reports, each equivalent to 2,000 to 2,500 words, consisting of 1 x group work on a project (50%) and 1 x individual report (40%); class attendance and participation (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit is primarily concerned with planning, land use and infrastructure within the 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 at the metropolitan and local level. This unit is in two modules, each of which is assessed.

1. Land use, infrastructure planning and urban development: different forms of infrastructure; the role of infrastructure in creating good environments and urban development; transport and the space economy; accessibility, 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. The Sydney Metropolitan Strategy and corresponding planning documents make a key contribution to this module.

2. Land use planning, development control and plan making: within the context of more effective land use planning, this module examines the process of assessing a local area (such as structure, form and understanding character), developing local vision and neighbourhood strategies and structure plan, translating the strategy and structure plan into a land use plan and development control. A case study is used for group work (with practitioners involved) so as to understand how the plan making process evolves and is constructed. Questioning the assumptions and values that underpin planning controls and guidelines is a key skill emphasised in the unit via the
group work. This is an introductory core unit for the Urban Planning degree and an elective for the Urban Design degree.
# Master of Urban and Regional Planning

## Unit of study 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>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate, Diploma and Master of Urban and Regional Planning</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Master degree candidates are required to complete either a Report or Dissertation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>All streams</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Core units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLAN9061 Planning Principles, Systems &amp; Practice</td>
<td>6</td>
<td>N PLAN9020, PLAN9044</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1, Semester 2a</td>
</tr>
<tr>
<td>PLAN9063 Strategic Planning and Design</td>
<td>6</td>
<td>N PLAN9027</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>PLAN9068 History &amp; Theory of Planning &amp; Design</td>
<td>6</td>
<td>N PLAN9031, ARCH9060</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>PLAN9045 Economics for Planners</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></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>PLAN9064 Land Use and Infrastructure Planning</td>
<td>6</td>
<td>A Some prior knowledge of urban design/place making principles as learned in the core unit ARCH9010</td>
<td>N PLAN9028</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9100 Introduction to Urban Design</td>
<td>6</td>
<td>Students may be granted advanced standing based on portfolio.</td>
<td></td>
<td></td>
<td></td>
<td>Int February, Int July</td>
</tr>
<tr>
<td>PLAN9018 Planning Report</td>
<td>12</td>
<td>P 48 credit points N ARCH9031, ARCH9060, ARCH9045, ARCH9046, PLAN9010, PLAN9011</td>
<td>Note: Department permission required for enrolment Submit an Independent Study approval form to the Architecture Student Administration Centre (SAC), signed by the Program Director, with your request to enrol. This unit is for Master of Urban and Regional Planning students only.</td>
<td></td>
<td></td>
<td>Semester 1, Semester 2</td>
</tr>
<tr>
<td>PLAN9010 Planning Dissertation 1</td>
<td>12</td>
<td>P Completion of the core requirements of the MURP with a Weighted Average Mark (WAM) of at least 75 N PLAN9018, ARCH9031, ARCH9045, ARCH9046, ARCH9060</td>
<td>Note: Department permission required for enrolment Submit an Independent Study approval form to the Architecture Student Administration Centre (SAC), signed by the Program Director, with your request to enrol. This unit is for Master of Urban and Regional Planning students only.</td>
<td></td>
<td></td>
<td>Semester 1, Semester 2</td>
</tr>
<tr>
<td>PLAN9011 Planning Dissertation 2</td>
<td>12</td>
<td>P Completion of the core requirements of the MURP with a Weighted Average Mark (WAM) of at least 75 C PLAN9010</td>
<td>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>
<td></td>
<td>Semester 1, Semester 2</td>
</tr>
<tr>
<td><strong>Elective units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLAN9049 International Urban Development Planning</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1a</td>
</tr>
<tr>
<td>PLAN9073 GIS Based Planning Policy and Analysis</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Int November</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, Design and Planning</td>
<td>6</td>
<td>N PLAN9048</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2a</td>
</tr>
<tr>
<td>Students may complete up to 18 credit points of related units of study from within the Faculty or the University if they can substantiate that a unit undertaken elsewhere strengthens and complements their professional interest area in urban and regional planning.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Heritage Conservation Stream</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Optional units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH9028 Conservation Methods and Practices</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ARCH9075 New Design in Old Settings</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

---

For internal use by University of Sydney staff only.
<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>ARCH9074 History and Theory of Conservation</td>
<td>6</td>
<td>N ARCH9003</td>
<td></td>
<td></td>
<td>This unit of study is offered in odd numbered years only.</td>
<td>Semester 2</td>
</tr>
<tr>
<td>ARCH9083 Conservation of Modern Materials</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>
Master of Urban and Regional Planning

Unit of study descriptions

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

PLAN9061
Planning Principles, Systems & Practice
Credit points: 6  
Teacher/Coordinator: Assoc Prof Nicole Gurran  
Session: Semester 1, Semester 2  
Classes: 2 x lectures 2 hrs/wk, seminar 2 hrs/wk. An additional hour of tuition may be assigned.  
Prohibitions: PLAN9020, PLAN9044  
Assessment: Assignment 1 (40%); assignment 2/presentation (10%); assignment 3 (50%)  
Mode of delivery: Block Mode

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; the systems for land use planning and environmental management in Australia, and the practice of statutory planning and development assessment 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. You will also be able to assess the social, economic, and environmental impacts of basic planning proposals, and justify these recommendations in professional planning reports.

In preparing for professional practice you will gain an understanding of the principles, techniques and requirements for public participation in environmental planning and assessment; and 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.

PLAN9063
Strategic Planning and Design
Credit points: 6  
Teacher/Coordinator: Prof Peter Phibbs  
Session: Semester 1  
Classes: Lectures 2 hrs/wk, seminar 2 hrs/wk. An additional hour of tuition time may be assigned.  
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 (2 x 30%, 1 x 40%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of PLAN9063 Strategic Planning and Design is to provide students with grounding in the core knowledge and skills needed to practice as a contemporary planner. A key emphasis in the unit is understanding the skills needed to undertake strategic planning at a range of levels (both process and content). Strategic planning in one form or other is a generic process that underpins much of the work that planners and urban designers are involved in at varying spatial levels. This course will provide students with the basic skills required to function as a planner and it will also act as an introduction to a number of other units in the program by highlighting the connection between the work of a planner and the need to understand a range of different knowledge and skill areas. The basic skills which will be covered include basic demographic analysis, graphic presentation, governance audits, consultation strategies and survey tools, economic analysis, and GIS. In addition, this Unit of Study will enable students to develop generic skills such as group discussion, productive group work and organisation, negotiation skills and information literacy skills.

This is an introductory core unit for the Urban Planning degree and an elective for the Urban Design degree.

PLAN9068
History & Theory of Planning & Design
Credit points: 6  
Teacher/Coordinator: Assoc Prof Paul Jones and Assoc Prof Rod Simpson  
Session: Semester 1  
Classes: Lecture 2 hrs/wk  
Prohibitions: PLAN9031, ARCH9060  
Assessment: Assignment 1 short questions (35%); group work local area analysis (30%); analytical essay (25%); attendance and class participation (10%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit is in two overlapping modules, each of which is assessed. Module one 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 Australian urban planning and development issues, and prepare basic stories and arguments about practical planning issues and current theories. There is a strong emphasis on enriching the ability of students to better appreciate urban form, structure and planning practice generally by analysing such form, structure and process through the lens of history (as ‘snapshots’ in time), and the understanding planning drivers that shape and express such urban change. Interpreting planning practice and what this means and reflects (such as underlying values, norms, attitudes, public interest, etc) is a key element of this module.

Concurrent with module one, module two familiarises 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 this module, key urban design ‘classics’ are discussed critically as history, design sources and tools.

Students will be able to: critically review and interpret key planning and urban design texts, 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 for both the overlapping fields of urban planning and urban design.

This is an introductory core unit for both the Urban Planning and Urban Design degrees.

PLAN9045
Economics for Planners
Credit points: 6  
Teacher/Coordinator: Prof Peter Phibbs  
Session: Semester 2  
Classes: Lecture 2 hrs/wk  
Assessment: 2 x individual written reports of 2,000 words (70%); 1 x group presentation and report (30%)  
Mode of delivery: Normal (lecture/lab/tutorial) Day

The aim of PLAN9045 Economics for Planners is to introduce the key economic theories, processes and techniques used by contemporary...
urban planners. The Unit of Study has two parts. In the first part of the unit, students are introduced to the economic drivers shaping city and regional development outcomes, and the location and form of different land uses and how they evolve. The second part of the unit continues to develop technical skills, including project evaluation, economic impact analysis, development feasibility, and introductory aspects of public finance.

PLAN9062 Planning Law

Credit points: 6 Teacher/Coordinator: Mary-Lynne Taylor Session: Semester 2 Classes: Lecture 2 hrs/wk. Additional tuition time may be assigned for introduction to graphic plan making. Prohibitions: PLAN9028 Assumed knowledge: Some prior knowledge of urban design/place making principles as learned in the core unit ARCH 9100 Assessment: Two illustrated reports, each equivalent to 2,000 to 2,500 words, consisting of 1 x group work on a project (50%) and 1 x individual report (40%); class attendance and participation (10%) 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.

PLAN9064 Land Use and Infrastructure Planning

Credit points: 6 Teacher/Coordinator: Assoc Prof Paul Jones Session: Semester 2 Classes: Lecture 2 hrs/wk. Additional tuition time may be assigned for introduction to graphic plan making. Prohibitions: PLAN9028 Assumed knowledge: Some prior knowledge of urban design/place making principles as learned in the core unit ARCH 9100 Assessment: Two illustrated reports, each equivalent to 2,000 to 2,500 words, consisting of 1 x group work on a project (50%) and 1 x individual report (40%); class attendance and participation (10%) Mode of delivery: Normal (lecture/lab/tutorial) Day

This unit is primarily concerned with planning, land use and infrastructure within the 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 at the metropolitan and local level. This unit is in two modules, each of which is assessed.

1. Land use, infrastructure planning and urban development: different forms of infrastructure; the role of infrastructure in creating good environments and urban development; transport and the space economy; accessibility, 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. The Sydney Metropolitan Strategy and concepts contained therein are used as a main focus for this module.

2. Land use planning, development control and plan making: within the context of more effective land use planning, this module examines the process of assessing a local area (such as structure, form and understanding character), developing local vision and neighbourhood strategies and structure plan, translating the strategy and structure plan into basic land use and planning controls (such as building height, floor space ratio, heritage, and other local area provisions) and producing a basic plan for development control purposes. A case study is used for group work (with practitioners involved) so as to understand how the plan making process evolves and is constructed. Questioning the assumptions and values that underpin planning controls and guidelines is a key skill emphasised in the unit via the group work. This is an introductory core unit for the Urban Planning degree and an elective for the Urban Design degree.

ARCH9100 Introduction to Urban Design

Credit points: 6 Teacher/Coordinator: Assoc Prof Rod Simpson Session: Int February, Int July Classes: Intensive delivery for total of 38 hours Assessment: Site and place analysis (25%), graphic and visual representation (15%), numerical analysis (15%), 3 dimensional computer modelling (15%), ideas for placemaking comprising an illustrated report (30%) Mode of delivery: Block Mode

Note: Students may be granted advanced standing based on portfolio.

This introductory unit of study will provide students with the necessary skills to participate effectively in the urban design studios and will include site, spatial and public domain analysis, map and plan reading, visual, verbal and written communication techniques, and basic computer-based 3 dimensional modelling and numerical analysis. This unit will introduce students to the objectives and principles of urban design by analysing a number of public spaces, the spaces between buildings and the public domain and urban conditions in Sydney.

PLAN9018 Planning Report

Credit points: 12 Teacher/Coordinator: Assoc Prof Nicole Gurran Session: Semester 1, Semester 2 Classes: Independent Study + Seminars Prohibitions: 48 credit points. Prohibitions: ARCH9031, ARCH9045, ARCH9046, PLAN9010, PLAN9011 Assessment: Final presentation (5%), Report of between 10,000 and 12,000 words (95%) Mode of delivery: Normal (lecture/lab/tutorial) Day

Note: Department permission required for enrolment. Note: Submit an Independent Study approval form to the Architecture Student Administration Centre (SAC), signed by the Program Director, with your request to enrol. This unit is for Master of Urban and Regional Planning students only.

The planning report is a substantial piece of research conducted over one semester. It takes the form of report (between 10,000 and 12,000 words) on an approved urban and regional planning subject of your choice and/or maybe based on a priority thematic topic agreed with a local Council in the Sydney metropolitan area. You will be required to participate in a small number of relevant studios / meetings in developing and presenting this work For example, in 2013, planning report topics evolved out of forum with officers from Liverpool City Council, for example, and were subsequently presented to Council officers at the end of semester. The objective of the planning report is therefore to advance your knowledge and analytical skills in a particular relevant and topical area and so develop a "professional edge" in a real world planning situation. 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, concern 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. Supervisors from the URP program are allocated at the end of week 1 of semester and students work with their supervisors on an agreed timetable throughout semester. Planning reports are due at the end of the first week of exams for the semester in which you are enrolled.

PLAN9010 Planning Dissertation 1

Credit points: 12 Teacher/Coordinator: Assoc Prof Nicole Gurran Session: Semester 1, Semester 2 Classes: Independent Study + Seminars Prohibitions: Completion of the core requirements of the MURP with a Weighted Average Mark (WAM) of at least 75 Prohibitions: PLAN9018, ARCH9031, ARCH9045, ARCH9046, ARCH9060 Assessment: Final presentation (or progress presentation if continuing in the second semester - feedback only) (5%); Dissertation of between 15,000 and 25,000 words (95%) Mode of delivery: Normal (lecture/lab/tutorial) Day

156
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 15,000 and 25,000 words) on an approved urban and regional planning subject of your choice. Students electing to do a stream in the MURP program must select a topic relevant to their chosen stream. There is also an option for students to prepare a shorter document suitable for publication in a refereed journal. The planning dissertation is an opportunity to advance your knowledge and skills in a particular area. For those intending to undertake further academic study, the dissertation also provides an opportunity for you to develop your research and inquiry 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 strong literature review to delineate a problem or gap in knowledge; a statement of research aims or objectives, as well as research questions and / or hypotheses; explanation of research methods; presentation and analysis of data; discussion of conclusions; an abstract.

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 and may include an oral presentation. 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.

Elective units

PLAN9049
International Urban Development Planning
Credit points: 6 Teacher/Coordinator: Assoc Prof Paul Jones Session: Semester 1A Classes: Intensive mode - lectures, seminars and group workshops run over five days (9am-5pm) on one week. Two major assignments: (1) development concepts and current issues (50%); (2) draft project design document and analysis (40%); attendance and participation (10%) Mode of delivery: Block Mode

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 urban 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 and who have an interest in better understanding urbanisation, especially in the Pacific Region. By the end of this unit of study you should have an understanding of the role and scope of urban 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; the implementation in the Asia-Pacific region; and an understanding of quality assurance assessment methodology in development project assessment. The unit reflects the increasing internationalisation of Australian planning practice in better managing urbanisation, especially within the Pacific Region. It caters to the needs
of local and international students intending to work on urban and regional planning projects within a development assistance context.

PLAN9073
GIS Based Planning Policy and Analysis
Credit points: 6 Teacher/Coordinator: Dr Awaas Piracha Session: Interm 1 November Classes: 4 day intensive (9am-5pm) Assessment: Two smaller analytical assessments (2 x 25%) and a larger report (50%) Mode of delivery: Block Mode
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, tutorials 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.

ARCH9063
Urban Morphology
Credit points: 6 Teacher/Coordinator: Assoc Prof Rod Simpson Session: Semester 2 Classes: Lecture 1 hr/wk; tutorial 1 hr/wk (weeks 1-9); tutorial 2 hrs/wk (weeks 10-13) Prohibitions: ARCH9021 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 typology. 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) 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.

ARCH9080
Urban Ecology, Design and Planning
Credit points: 6 Teacher/Coordinator: Assoc Prof Rod Simpson/Assoc Prof Paul Jones Session: Semester 2a Classes: Intensive block mode: Lectures 3 hrs/wk for 7 weeks, plus self-directed preparation and assignments, for a minimum total student commitment of approximately 35 hours Prohibitions: PLAN9048 Assessment: Assignment (25%), Presentation (25%), Design-related report (50%) Mode of delivery: Block Mode
This unit will introduce the conceptual bases for sustainable development and explore how principles of sustainability can be introduced into land use planning and urban design, including environmental management and multi-criteria evaluation methodologies in three modules:
Module 1 will examine the evolution of urban areas in relation to their biophysical setting using the Sydney metropolitan area as a case study. This will lead to an understanding and appreciation of the urban ecology of the city in terms of the flows of materials, resources and energy, and the challenges presented by climate change and peak oil.
Module 2 will introduce principles of sustainability and the history and development of concepts of urban sustainability.
Module 3 will introduce methods and frameworks for evaluating and measuring sustainability.

Students may complete up to 18 credit points of related units of study from within the Faculty or the University if they can substantiate that a unit undertaken elsewhere strengthens and complements their professional interest area in urban and regional planning.

Heritage Conservation Stream
Optional units
ARCH9028
Conservation Methods and Practices
Credit points: 12 Session: Semester 1 Classes: Lecture 4 hrs/wk + site visits Assessment: Two assignments (2 x 50%) 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.

ARCH9075
New Design in Old Settings
Credit points: 6 Session: Intensive 2 Classes: Lectures 2hrs/wk, 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.

ARCH9074
History and Theory of Conservation
Credit points: 6  Session: Semester 2  Classes: Lectures 2 hrs/wk
Prohibitions: ARCH9003  Assessment: Seminar (40%); essay (60%)
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 and Eugène Voillet-le-Duc in France.
The principal aims of the unit are to develop an understanding of the
history and theoretical basis of the development if 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 the
idea of conservation through time and in Western and non-Western
traditions; an understanding of the development of Western traditions
of architecture and garden 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.

ARCH9083
Conservation of Modern Materials
This unit of study is not available in 2014
Credit points: 6  Session: Semester 2  Classes: Lectures 2 hrs/wk (11 wks),
site visits 2hrs/wk (2 wks)  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