

YOUR GUIDE TO
POSTGRADUATE
STUDY IN
**ARCHITECTURE, DESIGN
AND PLANNING**
2012



THE UNIVERSITY OF
SYDNEY



POTTS POINT STUDY Density + Quality

römische bader gardens

POTTS POINT STUDY Urban Typology

hansay

POTTS POINT STUDY Play Streets

POTTS POINT STUDY Wynne Street Apartments

POTTS POINT STUDY Mocking Night

HERITAGE/HISTORICAL Analysis

Architectural poster for 'POTTS POINT STUDY Density + Quality' featuring site plans, photographs of buildings, and diagrams.

Architectural poster for 'POTTS POINT STUDY Density + Quality' featuring a large site plan, photographs, and diagrams.

Architectural poster for 'römische bader gardens' featuring photographs of a garden, site plans, and diagrams.

Architectural poster for 'POTTS POINT STUDY Urban Typology' featuring photographs of urban scenes, diagrams, and text.

Architectural poster for 'POTTS POINT STUDY Urban Typology' featuring various diagrams, photographs, and text.

Architectural poster for 'hansay' featuring diagrams, photographs, and text.

Architectural poster for 'POTTS POINT STUDY Play Streets' featuring diagrams, photographs, and text.

Architectural poster for 'POTTS POINT STUDY Play Streets' featuring diagrams, photographs, and text.

Architectural poster for 'hansay' featuring diagrams, photographs, and text.

Architectural poster for 'HERITAGE/HISTORICAL Analysis' featuring a large map, diagrams, and text.

Architectural poster for 'POTTS POINT STUDY Wynne Street Apartments' featuring diagrams, photographs, and text.

Architectural poster for 'hansay' featuring diagrams, photographs, and text.

Architectural poster for 'POTTS POINT STUDY Mocking Night' featuring photographs, diagrams, and text.

Architectural poster for 'POTTS POINT STUDY Mocking Night' featuring diagrams, photographs, and text.

Architectural poster for 'hansay' featuring diagrams, photographs, and text.

CONTENTS

02 GENERAL INFORMATION

- 02 Welcome to the Faculty of Architecture, Design and Planning
- 03 Graduate Options
- 03 Continuing Professional Development

04 COURSEWORK DEGREES

- 04 Master of Architecture
- 06 Heritage Conservation
- 08 Audio and Acoustics
- 10 Building Services
- 12 Illumination Design
- 14 Sustainable Design
- 16 Facilities Management
- 18 Interaction Design and Electronic Arts
- 20 Urban Design
- 22 Urban and Regional Planning

24 RESEARCH

- 24 Research Options
- 25 Research Disciplines

26 HOW TO APPLY

- 26 Admissions – Coursework
- 27 Admissions – Research
- 28 More information

IMPORTANT DATES

| APPLICATION DATES | FIRST SEMESTER 2012 | SECOND SEMESTER 2012 |
|--|---------------------|--------------------------|
| LOCAL STUDENTSÆ | 5 MARCH | 30 JULY |
| 30 NOVEMBER FOR MARCH ENTRY | LECTURES BEGIN | LECTURES BEGIN |
| 30 APRIL FOR JULY ENTRY | 6-13 APRIL | 24 - 28 SEPTEMBER |
| INTERNATIONAL STUDENTS | MID-SEMESTER BREAK | MID-SEMESTER BREAK |
| 31 OCTOBER FOR MARCH ENTRY | 11 - 15 JUNE | 5 - 9 NOVEMBER |
| 30 APRIL FOR JULY ENTRY | STUDY VACATION | STUDY VACATION |
| LATE APPLICATIONS WILL BE ACCEPTED IF PLACES ARE AVAILABLE. | 18 - 30 JUNE | 12 - 24 NOVEMBER |
| | EXAMINATION PERIOD | EXAMINATION PERIOD |
| | 30 JUNE | 24 NOVEMBER |
| | SEMESTER ENDS | SEMESTER ENDS |

WELCOME

At Sydney we understand that undertaking postgraduate education, whether for professional accreditation, professional development, skills upgrading or career change, requires a strong commitment and investment.

Our unrivalled array of programs are flexibly designed to meet your individual needs, maximising your return on this commitment and establishing you as one of the leaders in your chosen field into the future.

A UNIQUE LEARNING EXPERIENCE

When you come to the Faculty of Architecture, Design and Planning you enter a unique collegiate body of creative thinking. You join fellow students who share your passion and ambition for academic excellence. You join academic and support staff justifiably proud of our reputation as one of the world's leading teaching and research institutes. And you join a long heritage of being at the forefront of innovative thinking and practice across an unrivalled spectrum of design disciplines.

CHOICE OF PROGRAM TO MEET YOUR NEEDS

You decide what you study and for how long you study. Choose from Australia's widest range of graduate units across a number of design fields in which you complete your core, optional and elective requirements. In most programs you can choose to undertake a full Masters degree, Graduate Diploma, Graduate Certificate or even selected individual units of study.

Our flexible courses have a mix of core, optional and elective units, and you can choose electives from across the Faculty's many graduate programs and even from other faculties within the University of Sydney, giving you access to Australia's widest choice of electives to round out your studies.

UNIQUE CAMPUS LIFE

Whether you are joining us for just one subject or embarking on a research degree, you will find yourself warmly welcomed to what will be your new home. Our students work in our building almost round the clock, making use of the unparalleled access to studios, computer labs and specialist workshops. And this constant activity creates a vibrancy and creative energy that helps make ours the most highly rated campus amongst Australian university students.

Our students come here to work, study, create, learn and socialise well beyond official class contact hours. You may choose to join them in a number of extra curricular activities: the opening of another exhibition at the Tin Sheds Gallery; a public lecture as part of the public Thursday Night Lecture or simply socialise with your fellow students in our building's unique atmosphere.

HISTORY OF INNOVATION

Over the past 90 years, the Faculty has developed a history of innovative thinking in research, teaching and practice across the many fields of the physical, and more recently virtual, designed environments. This started with Australia's first Architecture program and the first lectures in Town Planning from 1919. This was followed by the first Chair of Architectural Science in the world in 1953, and from 1963, the first graduate program in Architectural Science.

Also in the 1960's, the Centre of Design Computing and Cognition (now Design Lab) was established, offering Australia's first Design Computing degree from 1978 and from this year Australia's first Interaction Design and Electronic Arts program. Our Facilities Management and Heritage Conservations courses are also Australia's longest running programs in these fields.

The advantage for you in all this history is that you are joining programs that are established and respected by professional and academic communities throughout the world. A graduate degree from our faculty carries with it an assurance of high quality, research-led, professionally relevant education that will place you at the forefront of thinking in your chosen field.

RECOGNISING TALENT AND EFFORT

Industry-funded prizes that reward your hard work

Students are eligible to be awarded prizes that recognise excellence across every graduate program. Many of these are funded by our industry partners, carrying both prestige and significant financial reward.

GRADUATE OPTIONS

With Australia's largest selection of graduate programs to choose from, our Graduate Certificates, Graduate Diplomas, Masters degrees and PhDs allow you to choose a coursework or research program that meets your individual educational background and needs.

COURSEWORK

Most of our coursework master's degrees involve a series of specialist units of study. You can use coursework master's degrees that include a research component as a pathway to a research program.

Our coursework programs are grouped into the following categories, offering different level qualifications and requiring varying levels of commitment.

Master's programs are ideal for graduates who need specialised knowledge and skills that will help them take the next step in their career or develop academic expertise. They typically require between one-and-a-half and two years of full-time study, or can be studied part time over three or more years (for local students).

Graduate diplomas are normally based on master's programs but require less time commitment. They are an excellent option for students who do not want to commit to a full master's, but still need a solid grounding in their chosen field. They typically require one year of full-time study.

Graduate certificates are intended for people who want to undertake a short academic training course to further their career, or to sample further study. They typically require six months of full-time study.

UPGRADE YOUR SKILLS OR CHANGE YOUR CAREER THROUGH STUDYING SINGLE SUBJECTS

The Faculty is offering a range of single subjects from our postgraduate programs as part of our Professional Education Program. We know that the way we learn, work and live is always changing. That's why we offer flexibility in how you can complete our coursework programs.

Subjects are taught in either weekly or intensive block-mode (condensing a whole semester into four or five days). This study option is open to professionals with or without prior higher education in their field of interest, so long as participants meet assumed or prerequisite knowledge.

You can enrol in individual units from every postgraduate program as a 'non-award' student.

Once you are qualified for a profession you may need to complete a certain number of hours of continuing professional development to keep your skills up to date. Most units qualify for CPD points for AIA, PIA or SBSE/EA members.

By successfully completing the subject's assignment tasks participants will be able to apply for credit towards a future degree in the faculty.

Visit sydney.edu.au/architecture/cpd for a comprehensive list of units of study available for CPD and other non-award study.

MASTER OF ARCHITECTURE

Today, architects increasingly move seamlessly between different environmental and design disciplines to make sense of and create the contemporary world. Our Master of Architecture program addresses this need.

ABOUT THE COURSE

The Master of Architecture is a 2-year full-time program. The program centres on design studios which explore Urban Architecture, Sustainable Architecture and Digital Architecture, culminating in a graduation design studio which allows students to choose from a diverse range of design projects.

The studios are structured to respond to the critical issues facing contemporary architectural design and draw on extensive areas of expertise across a range of design disciplines. Each studio is supported by core units in history and theory, advanced architectural technologies and professional practice.

Between them, the studios and core support units make up 78 of the 96 credit points within the program, leaving 18 credit points (usually three units of study) free for students to choose from a wide range of elective units in order to extend their knowledge and skills into other related areas.

WHO SHOULD TAKE THIS COURSE?

For students who have successfully completed the Bachelor of Design in Architecture (or equivalent), the Master of Architecture degree is a necessary step towards becoming a registered architect.

Graduates from related design programs, such as landscape architecture, interior architecture or architectural computing will need to complete a Bachelor of Design in Architecture before undertaking the Master of Architecture, however it is possible for students to receive up to two years credit, depending on the program of study undertaken and your academic results.

ADMISSION REQUIREMENTS

Students must have completed the Bachelor of Design in Architecture or such other equivalent degree as determined by the Faculty. Students who have completed the Bachelor of Design in Architecture at the University of Sydney must have completed the Master of Architecture prerequisite unit of study and have a Weighted Average Mark (WAM) of 65.

Students who have completed an equivalent degree to the Bachelor of Design in Architecture at another university, require a distinction (75% or equivalent) average over the final two years of their degree.

Applicants without the above marks may submit a portfolio representative of their years of study and undertake either professional work experience, field study in relation to architecture, international exchange units or a postgraduate qualification in a related discipline.

ARCHITECTURAL EXPERIENCE RECOMMENDATION

It is recommended that students complete at least 18 weeks of documented work experience prior to undertaking the final year of the Master of Architecture.

Registration as an Architect requires at least two years of documented professional experience, at least one of which must be after completing the Master of Architecture.

OUTCOMES OF THIS COURSE?

The Master of Architecture program is designed to enable you to gain the necessary knowledge and skills to become an architect, noting the increasing complexity and diversity of the architect's role.

More than this, the program allows you acquire a range of knowledge which is expected to result in graduates who can provide the community with the highest quality of architecture, including to be able to think clearly and be able to make reasoned judgements.

These outcomes are based on

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

Registration as an Architect

Graduates of the Master of Architecture program are entitled to register as architects with the NSW Architects Registration Board, subject to obtaining approved practical experience and passing an architectural practice examination. Registration requires two years of documented practical experience, of which at least one must be post

The combined program of Bachelor of Design in Architecture/Master of Architecture is recognised by the Australian Institute of Architects (AIA) and the Commonwealth Association of Architects.



Program details **Master of Architecture**

Duration 2 years full time

**Credit points
required** 96

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|--|---|--|---------------|------------------|
| Students complete all of these units (78 credit points in total) | MARC4001 | Urban Architecture Research Studio | 12 | 1, 2 |
| | MARC4002 | Sustainable Architecture Research Studio | 12 | 1, 2 |
| | MARC4003 | Digital Architecture Research Studio | 12 | 1, 2 |
| | MARC5001 | Graduation Studio | 12 | 1, 2 |
| | MARC4101 | Advanced Technologies 1 | 6 | 1 |
| | MARC4102 | Modern Architectural Theory | 6 | 1 |
| | MARC5101 | Advanced Technologies 2 | 6 | 2 |
| | MARC4201 | Modern Architectural History | 6 | 2 |
| | MARC5102 | Contract Documentation | 6 | 2 |
| Elective Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Students complete 18 credit points in electives (usually 3 units of study) | Elective units can be taken from the following fields within Architecture, Design and Planning or (with permission) from other faculties within the University: | | | |
| | Architectural Design | | | |
| | Architectural Science and Technologies | | | |
| | Art Workshops | | | |
| | Digital Architecture | | | |
| | Heritage Conservation | | | |
| | Professional Practice | | | |
| | Social Studies | | | |
| | Sustainable Architecture | | | |
| | Urban Architecture | | | |

Entry requirements: Applicants must hold the Bachelor of Design in Architecture or equivalent. Applicants with a credit average from Sydney or a distinction average in the final two years of study from other institutions do not need to provide a portfolio or undertake architectural experience. See page opposite for details.

Fees (per year full time) Local: CSP HECS Band 2 (\$8050), International: \$30,720 (\$640 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

HERITAGE CONSERVATION

The Heritage Conservation program primarily aims to develop skills in the care and conservation of traditional and modern buildings, the latter a growing concern of contemporary conservation practice. The program allows students to develop specific skills in assessment, interpretation, management, formulation of policy, and documentation of culturally significant places, including buildings, sites and cultural landscapes.



ABOUT THE COURSE

The course focuses on the design of excellent new architectural additions, alterations and adaptations to old buildings of recognised value and the conservation of modern materials. The degree also explores the promotion of social relevance and cultural continuity as cornerstones of conservation.

The program emphasises the importance of management issues and a practical understanding of the mechanisms of statutory authorities, both local and international, which affect conservation and development. It is broad based, to reflect the interdisciplinary nature of conservation practice. A graduate internship provides a link between the academic core of the program and the discipline and methods of practice.

WHO SHOULD TAKE THIS COURSE?

Anyone interested in the conservation of the built environment will find this course suitable to developing specialist conservation skills, whether from an architectural, town planning, archaeological, historical, engineering, or other related backgrounds.

WHAT IS THE OUTCOME OF THIS COURSE?

Graduates of the program will find a wide array of professional opportunities whether as conservation specialists in the related fields of architects, planners, archaeologists, historians or heritage consultants.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time). Part time study is available for Australian citizens and permanent residents. Individual units can also be taken as Continuing Professional Development short courses without enrolling into a degree (see page 5 for details)

ADMISSION REQUIREMENTS

Masters applicants should hold a bachelor degree with a credit average. Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Heritage Conservation | 72 | 1.5 years |
| | Graduate Diploma in Heritage Conservation | 48 | 1 year |
| | Graduate Certificate in Heritage Conservation | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|---|--|---------------------------------------|---------------|------------------|
| Masters students complete 42 core unit credit points | ARCH9028 | Conservation Methods and Practices | 12 | 1 |
| | ARCH9075 | New Design in Old Settings | 6 | 1 |
| Grad dip complete at least 30 and grad cert at least 18 | ARCH9081 | Heritage Law and Policy | 6 | 1 |
| | ARCH9074 | History and Theory of Conservation | 6 | 2 |
| | ARCH9031 | Research Report | 12 | 1, 2 |
| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Masters students complete at least 18 credit points; grad dip and grad cert complete at least 6 | MARC4201 | Modern Architectural History | 6 | 1 |
| | ARCH9082 | Conservation of Traditional Materials | 6 | 2 |
| | ARCH9083 | Conservation of Modern Materials | 6 | 2 |
| | ARCH9084 | Conservation Design Studio | 6 | 2 |
| Elective Units | Students complete up to 12 credit points in electives | | | |
| | Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University: | | | |

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

Entry requirements: Bachelor degree with credit average for Master, Bachelor degree for Graduate Diploma, Bachelor degree or relevant experience for Graduate Certificate.

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

AMANDA PURCELL MASTER OF HERITAGE CONSERVATION

I have spent most of my adult life in Asia; two stays in Hong Kong totalling almost nine years and a two year stay in Japan. Both countries had very different strategies for dealing with heritage conservation and the treatment of old buildings.

I returned determined to do whatever I could to assist in preserving Australia's cultural heritage, a young country with a unique story. I felt this degree would be a perfect way to gain a deeper understanding of a profession that seeks to preserve, conserve and protect buildings of historical significance.

I find the Heritage Conservation degree stimulating on so many levels. We have had the opportunity to visit a number of areas of historical interest within Sydney and have met a variety of people working in related fields who all have inspiring stories and experiences to share. The knowledge gained should complement my existing skills as an analyst and my project management experience.



AUDIO AND ACOUSTICS

Sound is a constant throughout our lives – involving, informing and profoundly shaping our experience of communication, entertainment and architectural spaces. This degree is unique and challenging, giving students a solid foundation in the design, measurement and theory of audio and acoustics. From this foundation students can choose to specialise in their area of interest including acoustics, audio systems and audio production.

ABOUT THIS COURSE?

The degree is interdisciplinary, bringing together creative, technical and scientific approaches to sound. It draws on psychology, aesthetic sound design, new media, sound recording, systems design, acoustic engineering, computer modelling and simulation. It gives a solid grounding in these fields, and encourages senior students to develop advanced understanding and skills through specialised projects.

The program is supported by one of Australia's best acoustics facilities and two audio studios. The Acoustics Research Laboratory houses an anechoic room and reverberant room and has extensive state-of-the-art equipment for measurement and analysis. The audio studios consist of a recording studio and a 5.1 channel production studio.

WHO SHOULD TAKE THIS COURSE?

The program is ideal for people with an academic and/or professional track record in audio, acoustics or related areas, wishing to extend the breadth and level of their expertise. This includes audio engineers, architects, interior designers, sustainable designers and musicians.

There is no assumed knowledge in this program, making it ideal for people wishing to enter these fields.

WHAT IS THE OUTCOME OF THIS COURSE?

Students will graduate with a broad education in Audio and Acoustics which could lead to a number of vocational opportunities. Graduates work in fields including audio production, sound design, audio systems design, acoustical consulting, and research and development of audio and acoustics products. Some graduates have used the degree as the foundation for a research degree in audio and acoustics.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time). This program can also be taken as double stream Master degree in combination with another Design Science Program or Facilities Management.

Part time study is available for Australian citizens and permanent residents. Individual units can also be taken as Continuing Professional Development short courses without enrolling into a degree.

Please refer to page 24 for information on research degrees, which can be undertaken in Audio and Acoustics.

ADMISSION REQUIREMENTS

Masters and Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Design Science (Audio & Acoustics) | 72 | 1.5 years |
| | Master of Design Science (Audio & Acoustics) with second stream | 96 | 2 years |
| | Graduate Diploma in Design Science (Audio & Acoustics) | 48 | 1 year |
| | Graduate Certificate in Design Science (Audio & Acoustics) | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|---|---|--|---------------|------------------|
| Masters and grad dip students complete all 24 credit points Grad cert at least 18 | DESC9011 | Audio Production | 6 | 1 |
| | DESC9115 | Digital Audio Systems | 6 | 1 |
| | DESC9117 | Sound Design for New Media | 6 | 2 |
| | DESC9138 | Architectural and Audio Acoustics | 6 | 1 |
| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Masters and grad dip students complete at least 18 credit points Grad cert complete at least 6 | DESC9042 | Electrics Electronics & Electroacoustics | 6 | 1 |
| | DESC9090 | Audio Systems and Measurement | 6 | 2 |
| | DESC9133 | Architectural Acoustics Practice | 6 | 2 |
| | DESC9134 | Audio and Acoustics Seminar | 6 | 1 |
| | DESC9135 | Digital Audio Production with ProTools | 6 | 1 intensive |
| | DESC9136 | Music Technologies | 6 | 2 |
| | DESC9137 | Spatial Audio | 6 | 1 |
| | DESC9153 | Graduate Internship | 6 | 1, 2 |
| Elective Units | Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. Masters students can complete up to 30 credit points as Electives. Grad dip students can complete up to 6. | | | |

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

Entry requirements: Bachelor degree for Master and Graduate Diploma
Bachelor degree or relevant experience for Graduate Certificate

Fees (per year full time) Local: \$19,920 (\$415 per credit point), International: \$27,840 (\$580 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search



BUILDING SERVICES

Building Services is a degree aimed at giving a broad knowledge of all areas of this discipline. This includes all of the environmental systems that make a building usable such as ventilation, air conditioning, heating and lighting. It also embraces the supply and distribution of water, electricity and communications; the provision of fire detection and fighting equipment as well as lifts and escalators.

ABOUT THIS COURSE?

The Building Services program aims to accelerate the acquisition of knowledge and skills for professionals currently employed in the building services industry.

It also provides transitional training for Electrical and Mechanical Engineers who are employed in the building construction industry or to provide vocational training for those intending to transfer into this industry.

WHO SHOULD TAKE THIS COURSE?

This course is intended for civil or mechanical engineers who seek to move into but are unfamiliar with the building industry, and for people working in the building services trades wishing to up-skill and obtain a higher qualification.

WHAT IS THE OUTCOME OF THIS COURSE?

Australian Institute of Building (AIB) has accepted graduates of the Masters program for corporate membership as Chartered Building Professionals if possessing the requisite professional experience. The Australian Institute of Building NSW Chapter Medal in Building is awarded annually to the outstanding graduate from the Masters program.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time).

This program can also be taken as double stream Master degree in combination with another Design Science Program or Facilities Management. Part time study is available for Australian citizens and permanent residents. Individual units can also be taken as Continuing Professional Development short courses without enrolling into a degree.

Intensive units

Most units of study are taught in 'block-mode' intensives, meaning students come to classes over a number of days, rather than to weekly lectures. See the website for unit descriptions and timetable information.

ADMISSION REQUIREMENTS

Masters and Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.



JOHN FRASER-MIFSUD NATIONAL CHANNEL MANAGER - COMMERCIAL BUSINESS, DAIKIN MASTER OF DESIGN SCIENCE (BUILDING SERVICES)

The intensives were just that; intensive. But they provided more opportunity to meet fellow students. The secret with block modes is to do the background reading and research. Don't let yourself get left behind as there is no time to catch up. Even if you just do one or two units as non-award, they are a great opportunity to gain an understanding of core concepts.

In the end it is not just the technical and theoretical knowledge you gain from a program like this that is valuable, it's the confidence that you can make a difference at a senior level, especially when you are coming from a trade background. Completing this program truly did have a massive influence on my professional life.

You can't ask for more than the architecture, engineering and science mix you get from a building services program. It is interesting, challenging and a lot of work, but ultimately a really rewarding experience.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Design Science (Building Services) | 72 | 1.5 years |
| | Master of Design Science (Building Services) with second stream | 96 | 2 years |
| | Graduate Diploma in Design Science (Building Services) | 48 | 1 year |
| | Graduate Certificate in Design Science (Building Services) | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|---|--|---|---------------|------------------------------------|
| Masters students complete at least 36 credit points of core units. Grad dip at least 24 Grad cert at least 18 | DESC9014 | Building Construction Technology | 6 | 1 intensive |
| | DESC9151 | Introduction to Building Services | 6 | 1 intensive |
| | DESC9040 | Electrical Services | 6 | 1 late intensive |
| | DESC9049 | Financial Decision Making | 6 | 1 late intensive |
| | DESC9067 | Mechanical Services | 6 | 2 late intensive |
| | DESC9192 | Energy Code Compliance in Buildings | 6 | 2 late intensive |
| | DESC9015 | Building Energy Analysis | 6 | 2 intensive |
| | DESC9111 | Energy Management in Buildings (Masters only) | 6 | 1, 2 (in students' final semester) |
| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Masters and grad dip students complete at least 12 credit points of optional units* Grad cert complete up to 6 | DESC9047 | Strategic Facility Management | 6 | 1 |
| | DESC9146 | Climate, Comfort and Sustainable Design | 6 | 2 |
| | DESC9166 | Photo & Colorimetric Concepts & Mensurtn | 6 | 2013, 1 intensive |
| | DESC9167 | Vision and Visual Perception | 6 | 2013, 1 intensive |
| | DESC9074 | Project Management | 6 | 2 intensive |
| | DESC9048 | Operational Facility Management | 6 | 2 intensive |
| | DESC9050 | Fire Protection Services | 6 | 2 intensive |
| | DESC9059 | Hydraulic Services | 6 | 2 late intensive |
| | DESC9148 | Sustainable Building Design Practice | 6 | 2 intensive |
| | DESC9164 | Light Sources and Luminaires | 6 | 2013, 2 intensive |
| | DESC9168 | The Visual Field and Human Factors | 6 | 2013, 2 intensive |
| Elective Units | Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. Masters students can complete up to 24 credit points as Electives. Grad dip students can complete up to 12. | | | |

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

Entry requirements: Bachelor degree for Master and Graduate Diploma
Bachelor degree or relevant experience for Graduate Certificate

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

ILLUMINATION DESIGN

Lighting design concerns the creation of interior and exterior spaces for work and pleasure. It is a vital part of architecture and interior design. This program is one of only a few in the world. Its emphasis is on producing competent lighting designers by introducing you to the multidisciplinary background of lighting knowledge. This forms the basis of the design process that follows.

WHO SHOULD TAKE THIS COURSE?

This is a professional program for architects, interior designers, engineers, ergonomists and related professionals who wish to develop expertise in illumination.

WHAT IS THE OUTCOME OF THIS COURSE?

Successful completion of the masters coursework program will qualify you for full membership of the Illuminating Engineering Society of Australia and New Zealand, subject to the required practical experience.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time). This program can also be taken as double stream Master degree in combination with another Design Science Program or Facilities Management.

Part time study is available for Australian citizens and permanent residents.

Individual subjects can also be taken as Continuing Professional Development short courses without enrolling into a degree.

Intensive units

Most units of study are taught in 'block-mode' intensives, meaning students come to classes over a number of days, rather than to weekly lectures. See the website for unit descriptions and timetable information.

ADMISSION REQUIREMENTS

Masters and Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.

This program runs on a 2-year cycle, the next cycle starts in 2013. Local students enrolling in the Design Science (Illumination Design) program can, with permission, enrol part time in 2012. There is no enrolment for international students in 2012 in the Design Science (Illumination Design) program.

Both local and international students enrolling in the Design Science (Illumination Design Double Stream) can enrol full time in 2012 and 2013.



'Web of Light', Part of the 2011 Vivid Sydney exhibition by Ruth McDermott and Ben Baxter, Master of Design Science (Illumination Design) student.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Design Science (Illumination Design) | 72 | 1.5 years |
| | Master of Design Science (Illumination Design) with second stream | 96 | 2 years |
| | Graduate Diploma in Design Science (Illumination Design) | 48 | 1 year |
| | Graduate Certificate in Design Science (Illumination Design) | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|---|---|--|---------------|------------------------|
| Masters and grad dip students complete at least 36 credit points of core units. Grad cert students complete 24 credit points | DESC9165 | Lighting Design | 6 | 2012, 1 intensive |
| | DESC9166 | Photo & Colorimetric Concepts & Mensurtn | 6 | 2013, 1 intensive |
| | DESC9167 | Vision and Visual Perception | 6 | 2013, 1 intensive |
| | DESC9169 | Daylight in Buildings | 6 | 1 late intensive |
| | DESC9164 | Light Sources and Luminaires | 6 | 2013, 2 intensive |
| | DESC9168 | The Visual Field and Human Factors | 6 | 2013, 2 intensive |
| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Masters students complete at least 18 credit points optional units. Grad diploma students complete at least 6 | DESC9151 | Introduction to Building Services | 6 | 1 intensive |
| | DESC9154 | Lighting Design Software | 6 | 2012, 1 intensive |
| | DESC9040 | Electrical Services | 6 | 1 late intensive |
| | DESC9049 | Financial Decision Making | 6 | 1 late intensive |
| | DESC9160 | Lighting Photography | 6 | 2013, 1 late intensive |
| | DESC9152 | Lighting Design Masterclass | 6 | 2012, 1 late intensive |
| | DESC9074 | Project Management | 6 | 2 intensive |
| | DESC9161 | Theatre and Performance Lighting | 6 | 2 late intensive |
| | DESC9111 | Energy Management in Buildings | 6 | 1, 2 (final semester) |
| | DESC9153 | Graduate Internship | 6 | 1, 2 |
| Elective Units | Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. Masters students can complete up to 18 credit points as Electives. Grad dip students can complete up to 6. | | | |

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

Entry requirements: Bachelor degree for Master and Graduate Diploma
Bachelor degree or relevant experience for Graduate Certificate

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

ALEX MCCOY

MASTER OF DESIGN SCIENCE (ILLUMINATION DESIGN)

I come from an entertainment lighting background, the majority of which is based on information handed down by informal on the job training which is fine but I wanted a more formal, defined education in Illumination Design.

The convenience of the time table was extremely appealing as the lectures are run in intensive mode so you're only required to attend four days of class per unit. As someone who works full time this allows for minimal interference with work compared to weekly night classes or other conventional arrangements.

The collective group of lecturers and guest speakers have an immense quantity of knowledge to impart and I hope to take as much of that away as possible.



SUSTAINABLE DESIGN

Sustainable design is concerned with both the process and outcomes of creating buildings to meet needs of a world that is increasingly conscious of the impacts made by buildings on the world's ecological systems. As the world shifts to a more sustainable form of development in the coming millennium the task facing designers is uniquely challenging and different from previous eras.



Samuel Mockbee and Rural Studio 'The Cardboard Pod', 2001 Source: Steve Watson

ABOUT THIS COURSE?

The program aims to assist design professionals and allied practitioners to recalibrate their knowledge and skills to meet this challenge through emphasizing some core aspects of sustainable design.

This involves gaining an understanding of the underlying ethical issues underpinning sustainable design thinking including resource efficiency as well as the core issues related to why we should sustain the natural environment through the appropriate design of our buildings.

WHO SHOULD TAKE THIS COURSE?

The program is aimed at building design professionals and allied para-professionals wishing to gain further knowledge skills in the area of sustainable design. Sustainable design is increasingly forming a central part of architectural practice with niche areas in the environmental and social and economic parameters, to building procurement and delivery. Knowledge in these niche areas provides new opportunities in practice.

WHAT IS THE OUTCOME OF THIS COURSE?

Sustainable design is a new paradigm hence the outcomes from the program should enhance the integrity of building design professional allied professions through the following:

- Ability to research, organise, advocate, innovate and engage with people across disciplines and cultures

- Capacity to develop appropriate answers and solutions to emerging issues and questions.
- To test these answers and solutions through critique, experimentation, modeling (analogue and computer generated) and graphic written communication.
- Develop a student's technical expertise with regard to aesthetic, environmental, social and economic considerations

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time).

This program can also be taken as double stream Master degree in combination with another Design Science Program or Facilities Management. Part time study is available for Australian citizens and permanent residents. Individual units can also be taken as Continuing Professional Development short courses without enrolling into a degree.

ADMISSION REQUIREMENTS

Masters and Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|--|---------------|----------------------|
| | Master of Design Science (Sustainable Design) | 72 | 1.5 years |
| | Master of Design Science (Sustainable Design) with second stream | 96 | 2 years |
| | Graduate Diploma in Design Science (Sustainable Design) | 48 | 1 year |
| | Graduate Certificate in Design Science (Sustainable Design) | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|---|--|---|---------------|-----------------------|
| Masters and grad dip students complete 24 core unit credit points. | DESC9145 | Sustaining the Built Environment | 6 | 1 intensive |
| | DESC9146 | Climate, Comfort and Sustainable Design | 6 | 1 late intensive |
| Grad cert complete 18 credit points | DESC9147 | Sustainable Building Design Principles | 6 | 2 intensive |
| | DESC9148 | Sustainable Building Design Practice | 6 | 2 intensive |
| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Masters students complete at least 18 credit points optional units. | DESC9151 | Introduction to Building Services | 6 | 1 intensive |
| | DESC9165 | Lighting Design | 6 | 2012, 1 intensive |
| | MARC6101 | Performance Based Modelling in Design | 6 | 1 late intensive |
| Grad diploma students complete at least 12 | DESC9169 | Daylight in Buildings | 6 | 1 late intensive |
| | DESC9015 | Building Energy Analysis | 6 | 2 intensive |
| Graduate certificate students complete at least 6 | PLAN9048 | Environmental Design and Planning | 6 | 2 late intensive |
| | DESC9150 | Sustainability Research Project | 6 | 1, 2 |
| | DESC9111 | Energy Management in Buildings | 6 | 1, 2 (final semester) |
| Elective Units | Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. Masters students can complete up to 30 credit points as Electives. Grad dip students can complete up to 12. | | | |

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

Entry requirements: Bachelor degree for Master and Graduate Diploma
Bachelor degree or relevant experience for Graduate Certificate

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search



KARLA VENEGAS

MASTER OF DESIGN SCIENCE (SUSTAINABLE DESIGN)

I come from a small family in Costa Rica, and I've always been a "greenie"! So, as I studied architecture, I started to discover this stream of "Sustainable Design" and was more than sure that it was the stream for me.

So far this degree has taught me how much we can do as architects, designers and planners to create a more sustainable built environment. It's amazing when you learn the huge impact the built environment (the one us designers are responsible for) can have on climate change.

It's also been interesting to attend the talks here at Uni and throughout Sydney about Sustainability, and learn how people around the world have dealt with the many problems that accompany incorporating new ways of doing things.

I'm eager to go back home to start putting into practice everything I've learned here. On one side I'm anxious to start working in design projects, but I'm also very excited about taking what I've seen and learned here and incorporating it into my community.

FACILITIES MANAGEMENT

Every organisation uses buildings of some sort and their occupation requires recurrent resources for rent, rates, cleaning, energy, water, security, etc, amounting in time to more than the capital cost of creating the buildings in the first place. Facility managers look after the infrastructure of business and have the responsibility of ensuring that their employers' premises assist them in fulfilling their core business objectives, retaining their capital value through appropriate maintenance as well as obtaining value from their day-to-day operating costs.



ABOUT THIS COURSE?

This program recognises that the facilities manager requires an understanding of business finance and management information as well as the technical areas of buildings.

Emphasis is placed on understanding the strategic objectives of an organisation and the way that facilities contribute towards their realisation. Students will be encouraged to direct their learning to their working situation where appropriate, through the assignments.

WHO SHOULD TAKE THIS COURSE?

The degree is aimed at those who are currently involved in the management of business premises, or who wish to make the transition into this growing industry.

WHAT IS THE OUTCOME OF THIS COURSE?

The Australian Institute of Building (AIB) has accepted graduates of the Masters program for corporate membership as Chartered Building Professionals if possessing the requisite professional experience.

The Australian Institute of Building NSW Chapter Medal in Building is awarded annually to the outstanding graduate from the Masters program. Similarly, we have applied for accreditation with the Royal Institute of Chartered Surveyors (FM).

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time).

Core Facilities Management units can also be taken as a second stream within a Master of Design Science Program, allowing you to combine Facilities Management with Audio & Acoustics, Building Services, Illumination Design or Sustainable Design.

Part time study is available for Australian citizens and permanent residents.

Units are taught as either intensives, meaning that they are taught over four to six full days, or weekly evening classes.

Individual units can also be taken as Continuing Professional Development short courses without enrolling into a degree

ADMISSION REQUIREMENTS

Masters and Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Facilities Management | 72 | 1.5 years |
| | Graduate Diploma in Facilities Management | 48 | 1 year |
| | Graduate Certificate in Facilities Management | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|--|-----------|---------------------------------------|---------------|------------------|
| Masters students complete at least 36 credit points of core units. | DESC9047 | Strategic Facility Management | 6 | 1 |
| | DESC9049 | Financial Decision Making | 6 | 1 late intensive |
| | DESC9071 | Organisational Analysis and Behaviour | 6 | 1 ;ate intensive |
| Grad dip complete at least 24 | DESC9048 | Operational Facility Management | 6 | 2 intensive |
| Grad cert at least 18 | DESC9172 | Building Asset Management | 6 | 2 intensive |
| | DESC9183 | Risk Management | 6 | 2 intensive |

| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
|--|-----------|---|---------------|------------------------------------|
| Masters students complete at least 18 credit points of optional units. | ARCH9028 | Conservation Methods and Practices | 12 | 1 |
| | DESC9014 | Building Construction Technology | 6 | 1 intensive |
| | DESC9074 | Project Management | 6 | 2 intensive |
| Grad dip complete up to 12 | DESC9111 | Energy Management in Buildings (Masters only) | 6 | 1, 2 (in students' final semester) |
| | PLAN9061 | Planning Procedures | 6 | 2 intensive |

| Elective Units |
|---|
| Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. Masters students can complete up to 18 credit points as Electives. Grad dip students can complete up to 12. Grad cert students can complete up to 6. |

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

Entry requirements: Bachelor degree for Master and Graduate Diploma
Bachelor degree or relevant experience for Graduate Certificate

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search



KEVIN HAMMOND MASTER OF FACILITIES MANAGEMENT

I have something of a varied background. Over the last decade I've divided my time between occupational health and safety and the development, sales and marketing of a computerised maintenance management package – rexisoft.

I've always been a very 'hands on' kind of person. While experience is valued, having a formal qualification can really help. This degree was a particularly good fit with my maintenance package business. It has allowed me to meet industry practitioners, both as fellow students and lecturers to flesh out theory and confirm industry best practise. I have been able to use what I have learned to improve my product.

Gaining this degree not only provides credibility for me, but also for my product.

The highlight of the degree has definitely been the people. I have been in groups that have been great. I am working with people who want to know more and are willing to put in the effort. The discussion has been energetic and the debate stimulating. I've been learning in a collaborative environment which makes it all the more interesting.

INTERACTION DESIGN AND ELECTRONIC ARTS

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



Urban Realities & Augmented Play, Exhibition of Sydney's IDEA and UTS student works, June 2011

ABOUT THIS COURSE?

The IDEA program provides students with the skills and knowledge to explore interaction possibilities offered by modern computing technologies.

The course focuses on four distinct studio areas:

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

Each design studio unit endeavours to develop the student's conceptual design abilities as well as augments one's technical skills, within the framework of a highly creative, research-based and human-centred design process.

The program collaborates with local industry partners in interaction design, offering students opportunities to experience and engage with commercial clients or engage in competitive internship opportunities. The program works on a two-year cycle and evolves as technology changes so students are exposed to the latest technology.

WHO SHOULD TAKE THIS COURSE?

This degree is aimed at anyone who uses technology creatively whether that be for artistic, personal or commercial purposes. A basic knowledge of programming is also assumed.

WHAT IS THE OUTCOME OF THIS COURSE?

Students will become proficient in the creative use of new technologies which they can then utilise in a practical way in a wide range of professional and artistic settings.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time). This program can only be studied full time, requiring around two days attendance in studios, labs and classes per week.

ADMISSION REQUIREMENTS

Masters applicants should hold a bachelor degree with a credit average. Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|--|---------------|----------------------|
| | Master of Interaction Design and Electronic Arts | 72 | 1.5 years |
| | Graduate Diploma in Interaction Design and Electronic Arts | 48 | 1 year |
| | Graduate Certificate in Interaction Design and Electronic Arts | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|--|---|------------------------------------|---------------|-----------------------|
| Masters students complete at least 54 core unit credit points Grad dip complete at least 36 and grad cert at least 18 | IDEA9103 | Virtual Worlds Laboratory | 6 | 2012, 1 |
| | IDEA9104 | Cyber Studio | 12 | 2012, 1 |
| | IDEA9203 | Time-Based Media Laboratory | 6 | 2012, 2 |
| | IDEA9204 | Screen Studio | 12 | 2012, 2 |
| | IDEA9101 | Experimental Interfaces Laboratory | 6 | 2013, 1 |
| | IDEA9102 | Installation Studio | 12 | 2013, 1 |
| | IDEA9201 | Physical Computing Laboratory | 6 | 2013, 2 |
| | IDEA9301 | Graduation Studio | 12 | 1, 2 (final semester) |
| | IDEA9311 | Research Internship | 12 | 1, 2 |
| | IDEA9302 | IDEA Research Project | 12 | 1, 2 |
| | IDEA9303 | IDEA Dissertation | 12 | 1, 2 |
| | Optional Units | Unit Code | Unit Name | Credit Points |
| Masters students complete at least 12 credit points; grad dip at least 6 | IDEA9105 | Human Computer Interaction | 6 | 1 |
| | IDEA9106 | Design Thinking | 6 | 1 |
| | IDEA9205 | Art, Technology and Culture | 6 | 2 |
| Elective Units | Up to 6 credit points of elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. | | | |

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

Entry requirements: Bachelor degree with credit average for Master, Bachelor degree for Graduate Diploma, Bachelor degree or relevant experience for Graduate Certificate.

Fees (per year full time) Local: \$19,920 (\$415 per credit point), International: \$27,840 (\$580 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

SILJE JOHANSEN

MASTER OF INTERACTION DESIGN AND ELECTRONIC ARTS (HONOURS)

I have a degree in Information Technology, and I've been working for some years in the software industry as both a programmer and technical resource for sales. I wanted to find a degree where I could use my technical background at the same time as developing design skills and be creatively challenged. I've always had an artistic side to me and this degree seemed to be perfect.

I've really enjoyed playing and experimenting with such a wide variety of technologies. I've especially enjoyed working with sensor based interfaces – making things talk using electronics combined with software.

For anyone considering this degree I'd say whether you come from a technical or a more creative background, as long as you have a passion for design, and like working with ideas and cutting edge technologies, this degree would be a good choice.



URBAN DESIGN

The Urban Design program was one of the first in Australasia and has built an excellent reputation, producing skilled graduates who work on all continents in design, management and teaching roles. The Faculty is a leader in offering expertise on urban design and urbanism in East Asia. This course also allows students from international backgrounds to understand urban design in an Australian context.

ABOUT THIS COURSE?

At the heart of the program is the Urban Design Studio, which allows students to synthesize their background professional expertise with new urban design knowledge and skills. The latter are drawn from the program's core units, which cover vital historical and theoretical dimensions of urbanism and design, urban morphological investigation, and the relationship between ecological processes and city form.

Electives give students the opportunity to strengthen their knowledge in other key areas: for example, architects can take electives in planning - likewise, planners can extend their understanding of architecture; and all students can reinforce their knowledge of sustainability. This cross-pollination nurtures more effective urban design.

WHO SHOULD TAKE THIS COURSE?

To apply, you should hold a professional degree in architecture, landscape architecture, urban planning or a closely related design area. Experience in studio-based study or practice is essential.

WHAT IS THE OUTCOME OF THIS COURSE?

Graduates of the program occupy important urban design private and public sector positions in cities across Asia, Europe, North and South America, and Australia-New Zealand.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time). Part time study is available for Australian citizens and permanent residents.

Students can also complete a **Master of Urban Design (Architectural and Urban Design)** that combines essentials of the two studio-based fields into a two-year (full-time) degree, or the **Master of Urban Design (Urban Design and Planning)**, a two-year degree that incorporates the key elements of both the Master of Urban Design and Master of Urban and Regional Planning

ADMISSION REQUIREMENTS

You are required to submit a portfolio of work with your application. Your portfolio should show several examples of design and design-related work completed as part of your university studies and/or samples of work from professional or equivalent experience (preferably both). If group or professional work, it is important that you indicate clearly your particular role in producing each item of submitted work. The portfolio is submitted as part of the online application process, and include drawings and other relevant items of illustration such as photographs of models, with supporting explanation.



JESSICA HIDGE

MASTER OF URBAN DESIGN

I graduated from Landscape Architecture at UNSW in 2005 and have since been working in private practice in Sydney on projects of a variety of scales, both locally and internationally. At the time I decided to do the degree, I was looking to gain a greater depth and knowledge base for practice in the built environment.

So far, this degree has challenged the way I approach design and has also changed the way I view the daily city. It allows for interaction, discussion and collaboration with people from different backgrounds and professions, which provides alternative views of Urban Design. Practically, though, the most enjoyable part of the degree has been emphasis on design and representation, in particular the design studios where the theory gets put into action.



Students: Jessica Hodge and Maira Metelo. Project: Flotsam and Jetsam - Rethinking Darling Harbour (Urban Design Studio).

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Urban Design | 72 | 1.5 years |
| | Master of Urban Design (Architectural & Urban Design) | 96 | 2 years |
| | Master of Urban Design (Urban Design & Planning) | 96 | 2 years |
| | Graduate Diploma in Urban Design | 48 | 1 year |
| | Graduate Certificate in Urban Design | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|---|---|--|---------------|------------------|
| Masters students complete at least 54 core unit credit points | ARCH9001 | Urban Design Studio A | 12 | 1, 2 |
| | ARCH9002 | Urban Design Studio B | 12 | 1, 2 |
| | ARCH9062 | Urban Design - Ideas and Methods | 6 | 1 |
| Grad dip complete at least 36 and grad cert at least 18 | ARCH9063 | Urban Morphology | 6 | 2 |
| | ARCH9080 | Urban Ecology and Design | 6 | 2 |
| Additional Architectural & Urban Design stream core | MARC4001 | Urban Architecture Research Studio | 12 | 1, 2 |
| | MARC4002 | Sustainable Architecture Research Studio | 12 | 1, 2 |
| | MARC4003 | Digital Architecture Research Studio | 12 | 1, 2 |
| | MARC4102 | Modern Architectural Theory | 6 | 1 |
| | MARC4201 | Modern Architectural History | 6 | 2 |
| Additional Urban Design & Planning stream core | PLAN9061 | Planning Principles, Systems & Practice | 6 | 1, 2 intensive |
| | PLAN9062 | Planning Law | 6 | 2 |
| | PLAN9063 | Strategic Planning and Design | 6 | 1 |
| | PLAN9065 | Resource and Environmental Management | 6 | 1 |
| | PLAN9068 | History and Theory in Urban Planning | 6 | 1 |
| | PLAN9069 | Urban Design and Development Control | 6 | 1 |
| | PLAN9064 | Land Use and Infrastructure Planning | 6 | 2 |
| Elective Units | Elective units can be taken from any graduate program within the Faculty of Architecture, Design and Planning or (with permission) from other faculties within the University. Masters students can complete up to 18 credit points as Electives. Grad dip students can complete up to 12. Grad cert students can complete up to 6. | | | |

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

Entry requirements: Bachelor degree with credit average for Master, Bachelor degree for Graduate Diploma, Bachelor degree or relevant experience for Graduate Certificate.

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

URBAN AND REGIONAL PLANNING

The Urban and Regional Planning program teaches strong foundations in urban and regional planning, with the opportunity for students to develop more specialised knowledge in emergent areas, such as environmental design, planning for better structured cities, and sustainable management.

ABOUT THIS COURSE?

Urban and regional planners are increasingly involved in formulating policies, guiding urban and environmental initiatives, and in managing the social, environmental and economic impacts of development.

The program places considerable emphasis on students learning appropriate communication, reasoning and analytical skills for making valuable contributions to the wider emergent professional roles.

There is also an opportunity to specialise, by selecting from the range of options offered in the Heritage Conservation stream.

WHO SHOULD TAKE THIS COURSE?

Professionals wishing to develop their skills in urban and regional planning would be well suited to this course.

WHAT IS THE OUTCOME OF THIS COURSE?

The program is accredited by the Planning Institute of Australia. Masters graduates are eligible, subject to professional experience requirements, for corporate membership of PIA.

MODES OF STUDY

This program can be taken as a Graduate Certificate (six months full time), Graduate Diploma (one year full time) or Master degree (one and a half years full time). Part time study is available for Australian citizens and permanent residents.

Individual units can also be taken as Continuing Professional Development short courses without enrolling into a degree.

ADMISSION REQUIREMENTS

Masters applicants should hold a bachelor degree with a credit average. Graduate Diploma applicants should hold a bachelor degree. Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course.



IAN RUTLEDGE

MASTER OF URBAN AND REGIONAL PLANNING

Having lived the majority of my life in Toronto and spending my summers in the Northern regions of Ontario, I have always been interested in the relationship we have with our environment, especially on issues pertaining to sustainable development and environmental design.

One of my goals from this degree was to make connections with people in both Australia and around the world. I now have a solid enough foundation in planning to make reasonable and objective decisions regarding community issues.

One of the aspects of the degree I have enjoyed most has been the ability to tailor the degree to best suit my personal interests. Studying at Sydney University has allowed me to focus on specific areas of urban development and expand my knowledge in this field.

| Program details | Course name | Credit points | Duration (full time) |
|-----------------|---|---------------|----------------------|
| | Master of Urban and Regional Planning | 72 | 1.5 years |
| | Master of Urban and Regional Planning (Heritage Conservation) | 72 | 1.5 years |
| | Graduate Diploma in Urban and Regional Planning | 48 | 1 year |
| | Graduate Certificate in Urban and Regional Planning | 24 | 0.5 year |

| Core Units | Unit Code | Unit Name | Credit Points | Semester offered |
|--|-----------|--|---------------|-----------------------|
| Masters students complete at least 48 core unit credit points Grad dip complete at least 24 and grad cert at least 18 | PLAN9063 | Strategic Planning and Design | 6 | 1 |
| | PLAN9068 | History and Theory in Urban Planning | 6 | 1 |
| | PLAN9069 | Urban Design and Development Control | 6 | 1 |
| | PLAN9062 | Planning Law | 6 | 2 |
| | PLAN9064 | Land Use and Infrastructure Planning | 6 | 2 |
| | PLAN9061 | Planning Principles, Systems & Practice | 6 | 1, 2 intensive |
| | PLAN9018 | Planning Report | 12 | 1, 2 |
| | PLAN9010 | Planning Dissertation 1 | 12 | 1, 2 |
| | PLAN9011 | Planning Dissertation 2 | 12 | 1, 2 |
| Elective Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Masters and grad dip students complete up to 24 credit points of Elective Units (including science electives). Grad cert students complete up to 6 credit points. | PLAN9045 | Economic Tools and Community Development | 6 | 2 |
| | PLAN9048 | Environmental Design and Planning | 6 | 2 late intensive |
| | PLAN9049 | Development Planning and Policy | 6 | 2013 1 late intensive |
| | PLAN9065 | Resource and Environmental Management | 6 | 1 |
| | PLAN9072 | Housing Policy and Assistance | 6 | 2 |
| | PLAN9073 | GIS Based Planning Policy and Analysis | 6 | 2 late intensive |
| | PLAN9074 | Public & Community Finance for Planners | 6 | 2 intensive |
| Faculty of Science Electives | ENVI5801 | Social Science of Environment | 6 | 1 |
| | ENVI5903 | Sustainable Development | 6 | 2 |
| Optional Units | Unit Code | Unit Name | Credit Points | Semester offered |
| Heritage Conservation Stream Minimum of 18 credit points required for stream | ARCH9028 | Conservation Methods and Practices | 12 | 1 |
| | ARCH9074 | History and Theory of Conservation | 6 | 2 |
| | ARCH9075 | New Design in Old Settings | 6 | 1 |
| | ARCH9082 | Conservation of Traditional Materials | 6 | 2013, 2 |
| | ARCH9083 | Conservation of Modern Materials | 6 | 2012, 2 |

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

Entry requirements: Bachelor degree with credit average for Master, Bachelor degree for Graduate Diploma, Bachelor degree or relevant experience for Graduate Certificate.

Fees (per year full time) Local: \$17,520 (\$365 per credit point), International: \$24,960 (\$520 per credit point)

For full unit of study descriptions visit sydney.edu.au/future_students/course_search

RESEARCH

As Australia's first university, the University of Sydney is committed to high quality research, research training, and innovation of economic, social and cultural importance. Aligned to international standards, this University seeks to achieve, in global terms, the best practice benchmark against which other Australian universities are measured.

The Faculty of Architecture, Design and Planning places a high emphasis on its research activity. We have a vibrantly diverse community of scholars and practitioners, many who have taken national and international leadership roles in their fields.

The Faculty offers the opportunity to pursue research degrees, both MPhil and PhD in four disciplines:

- Architecture and Allied Arts
- Architectural and Design Science
- Design Lab
- Urban and Regional Planning and Policy

You may elect to study in any of these fields, or to pursue interdisciplinary studies in a combination of fields within the Faculty or between the faculty and elsewhere in the University. The University and the Faculty have formal links, including exchange agreements and memoranda of understanding, with institutions throughout Asia, Europe, Scandinavia and North America. These translate into research opportunities for students as well as staff.

We support our students with a wide range of resources, including extensively equipped laboratories and comprehensive workshop facilities

The Faculty is expanding its research output in quality and quantity. It is building critical mass in research areas of excellence and is implementing new support measures to achieve this. The faculty offers two research degrees; Doctor of Philosophy and the Master of Philosophy (Architecture). These research programs involve study of research methodology and in-depth study by research in a specialised area. A research student undertakes a major thesis supervised by a staff member. Please see: sydney.edu.au/architecture/research/ for more information.

MASTER OF PHILOSOPHY (ARCHITECTURE)(MPHILARCH)

The research masters program allows a candidate to undertake research and advanced specialisation in any of the areas of scholarship and research undertaken by the Faculty. Entry requirements for the MPhil(Arch) include a bachelor degree in a relevant discipline. The program is generally completed in four semesters full time (2 years) or 8 semesters part-time (4 years). The final thesis for the Master of Philosophy (Architecture) is expected to be in the range of 30,000 – 60,000 words.

DOCTOR OF PHILOSOPHY (PHD)

The research degree is awarded for a thesis considered to be a substantial, original contribution to the discipline concerned. Entry requirements include a masters degree with a research component or a bachelor degree with first or second class honours, or it is possible to upgrade from the MPhil, providing satisfactory progress at PhD level has been made. The PhD is normally completed within eight semesters full time (4 years). The final thesis for the Doctor of Philosophy is expected to be in the range of 50,000 – 80,000 words.

ENTRY REQUIREMENTS

For the Master of Philosophy:

A degree in a relevant discipline.

For the Doctor of Philosophy:

A Masters degree with a research component or a Bachelors degree with first or second class Honours or an equivalent qualification from an accredited university or institution.

CORE UNITS FOR MPHIL AND PHD

Modes of Inquiry: Research & Scholarship

ARCF9001 (6 credit points)

ARCHITECTURE AND ALLIED ARTS

The Faculty is recognised for excellence in the field of architectural history, theory and creative research. The key research focus of the Architecture and Allied Arts (AAA) discipline group is the praxis of the built environment: the processes by which urban and architectural theory, history and design are enacted or practiced.

The strategic usage of the word praxis emphasizes the need for a constant relay between conceptual engagements with the built environment and that which is learned from the practices of architecture and urbanism in order to critically reframe knowledge.

The research expertise of the AAA group operates across: Architectural Computing and Digital Media; Architectural History and Theory; Heritage Conservation; and Housing

ARCHITECTURAL AND DESIGN SCIENCE

Architecture Science is the study of the physical aspects of architecture and design. The area encompasses studies in the physical and design aspects of lighting including thermal performance including climate effects and building response; daylighting and electrical lighting; acoustics including noise, room acoustics and audio systems.

Broader research themes encompassing these aspects include; audio and acoustic quality, the sustainability of buildings, appropriate structural systems and construction, innovative building services and effective management of buildings and facilities. The area also includes studies into how people react to environments and the functional aspects of buildings in use.

There are a number of leading researchers in Architectural Science within the Faculty who provide expert supervision of research leading to higher degrees. It is possible to undertake some advanced coursework with your research studies.

DESIGN LAB

The aim of the Design Lab is to foster design as a means of knowledge production in its own right. Different from the natural sciences, which studies the world as it is, the humanities, which studies the human condition, and the arts, which explores the possibilities of expression, design is a study of the world the way it could be through the creation and interrogation of the “designed” world.

We undertake these projects through multiple intellectual channels, having the scientific gaze with its systems of empiricism sit comfortably astride the artistic approach with its attention toward conceptual possibilities.

The projects themselves span politically charged and conceptually difficult terrains, dealing with questions on the biological innateness of design and its cultural and evolutionary pathways, the possibilities of experimental media at the juncture of art, society and technology, and speculative research into the inhabitation of the interface between humans and pervasive computing services.

URBAN AND REGIONAL PLANNING AND POLICY

Urban and regional planning research has been established in the Faculty since the late 1940s. Research areas include metropolitan planning, housing studies, regional policy, GIS and many other fields of policy and development. A recently established urban design program provides additional opportunities to conduct research into the design dimensions of urban form.

Besides providing individual study areas for research, the Faculty is home to the Planning Research Centre, an independent university foundation that undertakes research and connects the discipline and Faculty to government and industry. Many of the research students in urban and regional planning are attached to the Planning Research Centre.

COURSEWORK ADMISSIONS

WHO IS ELIGIBLE TO APPLY?

Masters and Graduate Diploma applicants should hold a bachelor degree. Masters applicants for Architecture, Heritage Conservation, Interaction Design and Electronic Arts, and Urban and Regional Planning must hold a bachelor degree with a credit average.

Graduate Certificate applicants should hold a bachelor degree or possess experience which is considered to demonstrate the knowledge and aptitude required to undertake the course. Please see the individual course listing in this brochure for full admission details.

OFFER OF ADMISSION

The result of your application will be a formal response sent by the Faculty. You will also receive information on fee payments and orientation material. If, for any reason, you are unable to take up an offer, please notify the Faculty immediately.

LOCAL STUDENTS

If you are an Australian citizen, a permanent resident of Australia or a citizen of New Zealand, you will be considered a local student. You can apply online at sydney.edu.au/future_students/domestic_postgraduate_coursework/admissions/

Local Student Enquiries

Student Administration Centre
Wilkinson Building (G04)
University of Sydney NSW 2006 Australia
T: +61 2 9036 6104 F: +61 2 9036 9532
E: admissions@arch.usyd.edu.au

Application Deadlines

30 November (March semester)
31 May (July semester)

Applications must be accompanied by a copy of your academic transcripts listing course results certified at the institute where you studied and the date of conferring of your qualifications. Applicants are required to show original evidence or certified copy (by a Justice of the Peace) of their Australian citizenship, New Zealand citizenship or permanent residency status.

English Language Requirements

If your qualifications were from a university or other recognised institution where the medium of instruction was

not English, you must provide evidence of proficiency in the English language. Applicants whose first language is not English may also be asked to provide evidence of English proficiency. The Faculty accepts the following tests:
IELTS: 7.0 overall (min 6.0 each component)
TOEFL: 600+ (TWE 4.5+) CBT 250+ (essay 4.5+) IBT 100+

INTERNATIONAL STUDENTS

If you are NOT an Australian citizen, a permanent resident, or a citizen of New Zealand, you will be considered an international student and accepted into the University only on a full-fee basis.

International Student Enquiries

Please contact: io.info@sydney.edu.au

Application Deadlines

- 31 October (March semester)
- 30 April (July semester)

Application Processing Fee: AUD\$100

Applications must be lodged to the International Office. For more details, see: www.usyd.edu.au/internationaloffice/

English language requirements

If English is not your first language, you must demonstrate an English language proficiency before admission can be confirmed. The Faculty accepts the following tests:
IELTS: 7.0 overall (min 6.0 each component)
TOEFL: 600+ (TWE 4.5+) CBT 250+ (essay 4.5+) IBT 100+
For more information on postgraduate English language requirements and exemptions see: sydney.edu.au/future_students/international_postgraduate_coursework/admissions/entry_requirements/english_language_requirements.shtml

FEES

Please see the following web page for a full list of fees: sydney.edu.au/architecture/programs_of_study/fees.shtml

SCHOLARSHIPS

For more information see our website: sydney.edu.au/architecture/programs_of_study/scholarships.shtml
sydney.edu.au/ro/

TIMETABLES

To view timetables please see: sydney.edu.au/architecture/CS/postgrad/timetables.shtml

RESEARCH ADMISSIONS

Research programs involve study of research methodology and in-depth study by research in a specialised area. They can be either taken as a Doctor of Philosophy (PhD) or Master of Philosophy (MPhil) (see page 51 for details).

HOW TO APPLY FOR A RESEARCH DEGREE

1. FIND A SUPERVISOR

Go to Research Supervisor Connect which matches your research interests to available research opportunities and supervisors see: sydney.edu.au/research/opportunities. Research Supervisor Connect is the University of Sydney's search engine that matches your research interests to available research opportunities and supervisors. Ideally, your prospective supervisor will have agreed to supervise you before you formally apply.

2. STATEMENT OF RESEARCH INTEREST

A statement of research interest should be developed in conjunction with one of the academic staff of the Faculty whom you wish to be your research supervisor. The goal of this statement is to determine whether your research interests are aligned with the research interests of the Faculty, and to help ascertain your background experience in research.

A list of all academic staff, their areas of research and research publications can be found at: sydney.edu.au/architecture/research. The statement of research interest should be 1,500-2000 words (preferably in conjunction with an academic staff member), and should include your proposed topic area, some indication of what research has already been done in that area, what specific research questions you might propose to pursue, and a brief idea of how you might propose to research them. If admitted, you will work with your supervisor, an associate supervisor and other members of staff to develop a full research proposal during your first year of candidature.

For more information please go to: sydney.edu.au/architecture/research/research_apply.shtml

3. SUBMIT THE UNIVERSITY APPLICATION FORM

To download forms please go to: sydney.edu.au/research/research_apply.shtml

Local Application Form Closing Dates:

- 31 May: for entry into second semester the same calendar year
- 30 November: for entry into first semester for the following calendar year

International Application Form Closing Dates:

- 30 April: for entry into second semester the following calendar year

- 31 October: for entry into first semester for the following calendar year

LATE APPLICATIONS MAY BE ACCEPTED.

IMPORTANT NOTE FOR ALL STUDENTS: Closing dates for admission applications and scholarship applications are different. Some scholarships (Eg. IPRS, APA) have earlier deadlines than the Faculty's admissions deadlines noted above. If you are applying for scholarships that have earlier deadlines than the Faculty's admissions deadlines, please submit both your admission and scholarship applications at the same time. If you fail to do so, this may effect your eligibility for the scholarship(s) you are applying for.

4. ACADEMIC REFEREES

Local applicants need to submit two Academic Referee Forms with their application, for International students, these are included in the main research application form.

5. SUPPLEMENTARY MATERIAL

Applications can be supplemented with examples of relevant prior papers or other evidence of research ability.

6. OFFICIAL TRANSCRIPTS

An official transcript of your tertiary studies is required if you are a graduate of an institution other than The University of Sydney.

7. PROOF OF CITIZENSHIP

Proof of citizenship of Australia or New Zealand or permanent residence in Australia is required for local applicants. These documents need to be properly certified.

8. ENGLISH REQUIREMENTS

For applicants whose qualifications are not from an English language University, please see: sydney.edu.au/future_students/international_postgraduate_research/admissions/entry_requirements/english_language

SCHOLARSHIPS

Scholarship information is available at:

sydney.edu.au/architecture/programs_of_study/scholarshipssydney.edu.au/scholarships/

sydney.edu.au/future_students/international_postgraduate_research/costs_scholarships/scholarships

ENQUIRIES

T: +61 2 9351 2686

E: architecture@sydney.edu.au

W: sydney.edu.au/architecture

MORE INFORMATION

FEES AND FEE HELP

Fees listed on each coursework program page are per one nominal full time year. Fees are charged per Credit Point so the number of Credit Points you undertake per year will determine your actual yearly fees.

Fees per Credit Point (for 2012)

| Program | Local students | International students |
|--|----------------|------------------------|
| Master of Architecture | CSP* | \$640 |
| Interaction Design and Electronic Arts, Design Science (Audio & Acoustics) | \$415 | \$580 |
| All other graduate programs | \$365 | \$520 |

*Commonwealth Supported Places within the Master of Architecture vary from year to year. In 2012, the indicative student contribution for a Commonwealth Supported Place is \$8050 per full time year.

To calculate the total cost of your course at the current year's rate, multiply the credit points required for completion by the cost per credit point above. To calculate the cost of a unit of study, multiply the unit of study credit point value by the cost per credit point above. The University's tuition fees, domestic and international, are subject to annual review and will change.

FEE HELP

Australian citizens can study now and pay later with the federal government's FEE-HELP scheme. Our postgraduate coursework programs, with the exception of the Master of Architecture, are considered 'full-fee paying courses'. Essentially you can choose to pay up front for the units you decide to study or defer payments through FEE-HELP, paying later through the taxation system.

Comprehensive information on the scheme is available from the Going to Uni website at goingtouni.gov.au/Main/FeesLoansAndScholarships/Postgraduate/Default

PRIZES AND SCHOLARSHIPS

Students studying with the Faculty of Architecture, Design and Planning can benefit from a large number of scholarships and prizes. Many of these are generously funded by industry partners and alumni, others are government or university-funded. All carry a mix of financial reward and prestige, singling the recipient out as one of the very brightest thinkers in their fields.

Scholarships

In addition to government-funded Australian Postgraduate Award scholarships for research students, there are a number of scholarships for students undertaking research in architecture and related fields available for local and international students.

There are also scholarships for students commencing coursework studies in the following programs:

- Architecture
- Illumination Design
- Urban and Regional Planning

Prizes

There are over 40 different prizes available to outstanding students across each of our postgraduate programs, valued up to \$1800. Prizes are awarded each May for work undertaken the previous year. Students may be eligible to receive more than one prize.

For full scholarships and prizes information visit sydney.edu.au/architecture/programs_of_study/scholarships

MORE INFORMATION

For further information about your graduate options contact the Communications and Engagement Office at the Faculty of Architecture, Design and Planning:

T: +61 2 9351 2686

E: architecture@sydney.edu.au

W: sydney.edu.au/architecture

The information contained in this brochure is correct at the time of publication (September 2011) but subject to change. For updated information always consult the Faculty of Architecture, Design and Planning's Handbook, available online at sydney.edu.au/architecture/CS/handbook



ADRIENNE KEANE, PHD STUDENT
CONDUCTING RESEARCH INTO
PEOPLE'S ATTITUDES TO LIVING
AMONG WORLD HERITAGE LISTED
AREAS.

Faculty of Architecture, Design and Planning
T 1300 362 006
E future.students@sydney.edu.au
sydney.edu.au/architecture

International Office
T +61 2 8627 8300 (outside Australia)
T 1800 899 376 (within Australia)
E io.info@sydney.edu.au
sydney.edu.au/internationaloffice

**FACULTY OF
ARCHITECTURE,
DESIGN AND
PLANNING**



THE UNIVERSITY OF
SYDNEY

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The University reserves the right to make alterations to any information contained within this publication without notice. 09/2011

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