

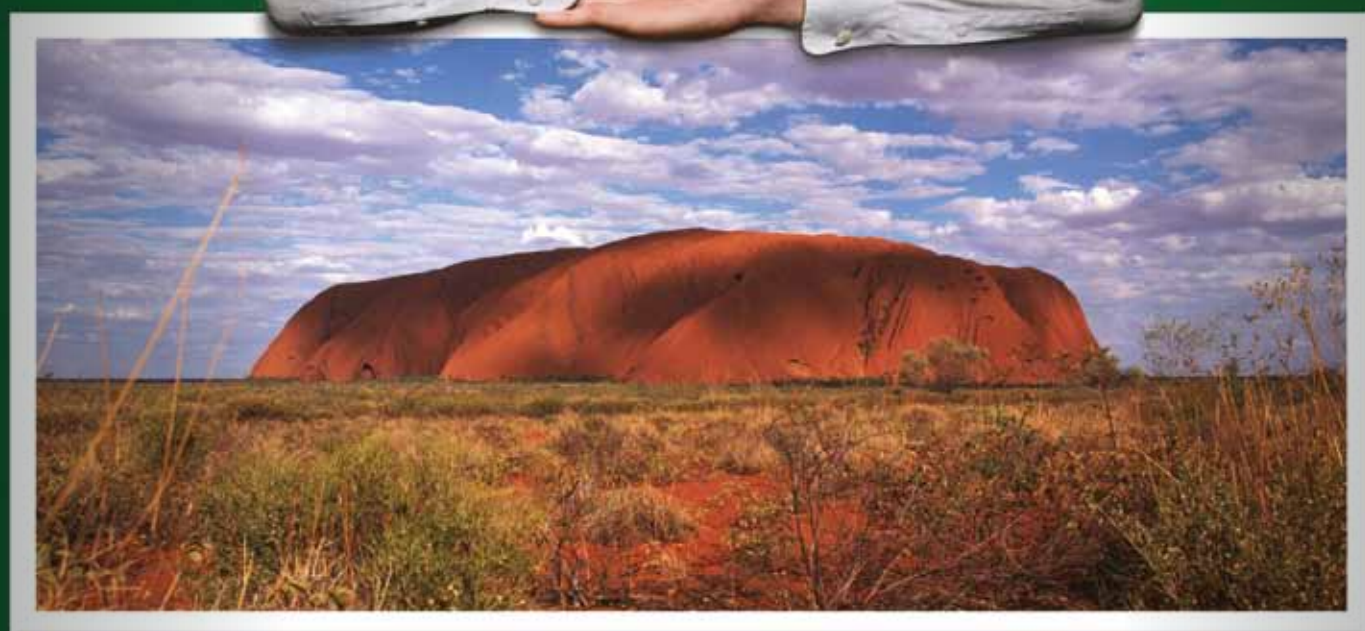
DEGREES OF SUCCESS

University of
Western Sydney
Bringing knowledge to life



AREA OF STUDY GUIDE 2012

ENVIRONMENT AND TOURISM



The University of Western Sydney (UWS) provides a welcoming environment for all students, and our campuses, spread across Greater Western Sydney, offer purpose-built facilities designed to give you room to think and learn.

With ground-breaking research, recognised nationally and internationally, our academics are challenging the boundaries of knowledge and laying the pathway to success through teaching and learning excellence.

At UWS you are encouraged to aspire to achieve great things in your career and community.

ENVIRONMENT AND TOURISM COURSE GUIDE 2012

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Vince Shepherd

Environmental Management and Science

Environmental Health Officer Blacktown City Council

Vince Shepherd's advice to students planning to start at UWS is to choose something you enjoy.

'It is also important to work out a good balance between uni, work and life, especially with travel and sport,' he says.

'I liked the Hawkesbury campus. It is rural, peaceful and friendly.'

Vince chose UWS because of its reputation for environmental science and closeness to home. 'I liked the Hawkesbury campus. It is rural, peaceful and friendly.'

Vince has obviously made the right choice as he says he is really enjoying his studies at UWS. 'It's a great course; practical and theoretical science that helps you to become a problem solver.'

He is already planning to undertake a Masters in Environmental Health and would like to own his own environmental consultancy business in the future.

Why Study Environment



Associate Professor Pauline Ross



Professor David Tissue



- » **Get the best possible start:** The Environment and Tourism programs at the University of Western Sydney are among Australia's finest, offering a balance of theory and practical field studies, broad subject choices, flexible course structures, industry-based projects and placements and local and international work experience opportunities.

- » **Contemporary curriculum and excellence in teaching:** Staff bring a combination of disciplinary and professional expertise that ensures our work engages with, and is informed by, contemporary debates and the latest developments in the field. Our inspiring, enthusiastic teaching staff are at the forefront of their fields.

- » **Tackle climate change:** An example of the important research being undertaken at UWS is the work of Professor David Tissue and his international research team, exploring eucalypt growth reactions to increasing carbon dioxide levels and climate change, as part of the Hawkesbury Forest Experiment. Dr Markus Riegler and Professor David Ellsworth have also been given a substantial grant to monitor insect herbivore and plant responses in eucalypt forests under climate change.

- » **Distinctive, high-impact research culture:** UWS is committed to enhancing our region's cultural, economic, environmental and educational development. Our reputation for research excellence has placed us in the Australian Research Council's (ARC) funding top 20, underlining our position among the best research institutions in the country.

and Tourism at UWS?



Kaiya Donovan

» **Learning opportunities:**

Kaiya Donovan, a graduate of the UWS Bachelor of Tourism says, 'The course structure provided opportunities for me, as well as my peers, to learn more about Indigenous Australian history and cultures. It also provided me with opportunities to learn about the significant contribution Indigenous people make to Australia's tourism industry. It has opened my eyes to other peoples and their cultures.'



» **Leading climate change research:** Climate change and the availability of clean energy are among the biggest problems currently facing Australia. The new Hawkesbury Institute for the Environment at UWS will act as a beacon for the best and brightest climate change and energy researchers from around Australia and the world. The Hawkesbury Institute for the Environment is researching a suite of crucial environmental problems, including those related to landscape revegetation and reforestation, bio-fuel production, remediation of contaminated soils and adaptation to climate change.



» **The drive for clean energy:**

The Solar Energy Research program is driving national innovation in developing and testing clean energy alternatives. Efficiency of converting sunlight into usable energy needs to be increased, and standard testing procedures are required to compare different solar energy systems. An important challenge to solar energy research, at UWS and globally, is the verification of experimental results. Most researchers use high intensity lamps to simulate sunlight, but it is almost impossible to accurately generate the broad spectrum of wavelengths found in sunlight. The solar testing station at UWS will precisely control and measure natural sunlight focused on to experimental solar devices. The facility will test and accurately compare semi conductor solar cells developed at UWS and other research institutions. The Solar Energy Testing Facility provides world class facilities.



» **Real life experience:**

The Native Mammal Facility is located at the Hawkesbury campus and includes state of the art small mammal and reptile houses, wild animal holding and research pens, as well as molecular and chemical laboratories. The facility is utilised for teaching various aspects of native mammals to undergraduate classes in animal science and environmental biology as well as for research purposes. The facility currently houses two species of small carnivorous marsupials (Dasyurids): the redtailed phascogale and kultarr; and two native murids: spinifex hopping-mice and plains rats. All four species are unique arid zone native mammals.

Bachelor of Natural Science (Advanced)

Our world and its resources are under ever increasing pressure, and we need new people with new ideas to address these challenges. We are seeing a bigger population, technology advancements and environmental issues, all of which are placing unprecedented pressure on our natural resources. An Advanced degree in the Natural Sciences will enable you to understand these competing pressures and contribute to the development of sustainable strategies to drive change.

Course	UAC Code	Campus	Duration	ATAR
B Natural Science (Advanced)	720000	Hawkesbury	3F/6P	nc

Key: B = Bachelor of; F = Full-time; P = Part-time; nc = new course. Note: 'part-time' refers to study load, not to timetabling of evening classes.

This is a challenging program that includes advanced coursework, extension activities and fundamental research training. You will be linked to experienced academic researchers and take part in the University's exciting research activities. The degree will allow you to undertake any of the Natural Science programs in Animal Science, Environmental Management or Sustainable Agriculture and Food Security.

Further Studies

Further studies can be pursued (Honours, Masters (Hon) or PhD degree) leading to a research or academic career. An Honours year is available to high achieving students. Information and details on how to apply for Honours will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

You will also have the option of teaching secondary school science if you study the appropriate subjects and complete a Master of Teaching (Secondary). Please refer to the Teaching and Education Course Guide for details.

Major Studies

The degree will allow you to undertake any of the Natural Science programs in Animal Science, Environmental Management or Sustainable Agriculture and Food Security. At the beginning of first year you will choose your area of specialisation and this will direct the particular subjects that are studied. It may be possible to change your specialisation later in the course.

There is a range of majors (such as aquatic biology, conservation biology and zoology) and sub-majors (such as sustainability) offered in Natural Science and Science. There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

Students must maintain a grade-point average (GPA) greater than 5 to remain in the course; those who do not maintain this average will be transferred to the corresponding Bachelor of Natural Science. Students who do not meet the entry standards of Bachelor of Natural Science (Advanced) but who are offered a place in a Bachelor of Natural Science can transfer into the advanced program after first year if they achieve a GPA greater than 5 and there are places available. At enrolment students will be required to sign a declaration acknowledging the requirement to maintain a GPA greater than 5.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Career Opportunities

A UWS Bachelor of Natural Science will open a world of opportunity for you. This degree will equip you with the ability to apply your skills in ways that effect real change. The Bachelor of Natural Science (Advanced) produces graduates who can work in a range of applied natural science disciplines related to our environment and rural sustainability. Specific career opportunities are outlined in the specialised course entries for Bachelor of Natural Science programs in Animal Science, Environmental Management and Sustainable Agriculture and Food Security.

So whether you would like to work in the private or public sector, this program can open opportunities in:

- » environmental science, management and health
- » horticulture
- » rural and urban development
- » food industries
- » agricultural industries
- » agronomy
- » supply chain logistics
- » animal science
- » nature conservation
- » urban and regional planning
- » land management
- » public health and nutrition
- » wildlife ecology.



Amber Deveridge

Bachelor of Animal Science

The unique attraction of studying animal science drew Amber Deveridge to UWS.

'The course was unique but UWS also offered a wider range of study opportunities than similar courses at other universities,' she says. 'I have found that the course is fairly flexible and there are opportunities to study in many different areas.'

'While at UWS, I have gained experience in endangered species conservation, lab techniques and social research, giving me opportunities to seek jobs in a variety of fields.'

'The flexibility of the project units means you get to choose what and where you study. In second year I studied cheetahs in Namibia, in third year I studied endangered rock-rats in Alice Springs and in Honours I studied livestock diseases in Indonesia.'

'When you are thinking of study, have a look at all of the opportunities and do whatever it is you are interested in. You can pick electives from other courses and for the project units you can study whatever you want, where you want.'

'If you find something you really want to do, you can usually make it happen.'

Bachelor of Natural Science (Animal Science)

Interactions between people and animals are increasing as we become more dependent on animals for companionship and food production, and strive to understand the greater pressures being placed on our unique native wildlife.

Students have access to campus animal facilities including reptiles, marsupials, horses, sheep, cattle and deer and off-campus animal professionals and organisations such as wildlife parks, zoos, farms and horse studs. Students also have access to a wide range of electives that will allow entry into a variety of careers, including international opportunities in the many fields of animal science.

Course	UAC Code	Campus	Duration	ATAR
B Natural Science (Animal Science)	720019	Hawkesbury	3F/6P	65.10
Practical Experience				
In their final year of study, students undertake a real world engaged learning project in a selected area of animal science. The project provides students with first-hand professional experience in project management and problem solving, and builds on the strong foundations established in their first two years of study.				
Professional Recognition				
Depending on the subjects chosen, graduates are eligible to apply for membership of one or more professional societies including the Royal Zoological Society of New South Wales, the Australasian Wildlife Management Society, the Australian Mammal Society, Australasian Wildlife Disease Association, the World Aquaculture Society and the Zoological Society of London among others.				

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Further Studies

Further studies can be pursued (Honours, Masters (Hon) or PhD degree) leading to a research or academic career. An Honours year is available to high achieving students. Information and details on how to apply for Honours will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

You will also have the option of teaching secondary school science if you study the appropriate subjects and complete a Master of Teaching (Secondary). Please refer to the Teaching and Education Course Guide for details.

Major Studies

The major studies may include animal behaviour, animal health and welfare, animal nutrition, animal production, animal reproduction, human animal interactions, vertebrate biodiversity, wildlife science.

There is a range of majors (such as conservation biology and zoology) and sub-majors (including sustainability) offered in Natural Science and Science that can add diversity and/or focus to your degree. There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Career Opportunities

Some examples of career opportunities include:

- » manager, technical advisor or research officer in animal welfare agencies
- » national parks and wildlife services
- » animal health and nutrition companies
- » zoo keeper
- » wildlife ecologist
- » manager of livestock production or breeding enterprise
- » regulatory affairs concerning animal therapeutics or disease control.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

Bachelor of Natural Science (Environment and Health)

The air we breathe, the water we drink, the food we eat, and the places we live, work and play all have major impacts on our health and wellbeing. Health scares such as swine/bird flu, obesity, cancers and asthma have all been connected to our environmental conditions.

The Environment and Health program concentrates on the mitigation of human health impacts of global climate change through to the more localised issues of air and water quality, waste management, food security, environmental noise and healthy communities.

Course	UAC Code	Campus	Duration	ATAR
B Natural Science (Environment and Health)	720006	Distance	3F/6P	67.90
Practical Experience				
In their final year of study, students undertake a real world project for a professional client in a selected area of environmental health. The project provides students with first-hand professional experience in project management and problem solving. Students also complete 10 weeks (or equivalent) of general placement.				
Professional Recognition				
Graduates will be eligible for full membership of Environmental Health Australia (EHA).				

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Further Studies

Further studies can be pursued (Honours, Masters (Hon) or PhD degree) leading to a research or academic career. An Honours year is available to high achieving students. Information and details on how to apply for Honours will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

Major Studies

The major studies may include air pollution, community studies, emergency management, environment and health law, environmental monitoring, environmental planning, environmental protection, epidemiology, food safety, noise, occupational environment, risk assessment, sustainable environmental management, toxicology, urban development and water pollution.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Career Opportunities

Many environmental health professionals are employed as Environmental Health Officers in areas such as:

- » all levels of government including health departments and the defence forces
- » private companies
- » consultancies

- » non-government organisations (such as the International Red Cross).

Other environmental health career options include:

- » environmental health policy, strategy and law development positions
- » food safety staff for a food manufacturer, supermarket chain, airline or other private company
- » public health practitioners
- » environmental risk consultants
- » environmental health consultants
- » management
- » research.

The current shortage of environmental health practitioners provides opportunities for early employment. Graduates from this program are in high demand both in Australia and overseas.

Bachelor of Natural Science (Environmental Management)

History has shown that if we don't effectively manage our environment, we will degrade it – possibly to the point where it can no longer sustain us. Environmental managers are concerned with ensuring the ecological sustainability of human development.

The Environmental Management degree is designed to develop students' problem solving skills, and to equip graduates to work with community members and professional practitioners. This work will be based on developing innovative policy and strategies that address the increasingly complex causes of today's environmental problems. Issues include urban development, global climate change, persistent organic pollutants (POPs), decreasing biodiversity and deteriorating air and water quality.

Course	UAC Code	Campus	Duration	ATAR
B Natural Science (Environmental Management)	720009	Hawkesbury	3F/6P	nc
Practical Experience				
In their final year of study, students undertake a real world project for a professional client in a selected area of environmental health. The project provides students with first-hand professional experience in project management and problem solving. Students also complete 10 weeks (or equivalent) of general placement.				
Professional Recognition				
Graduates are eligible for associate membership of Environmental Health Australia (EHA) and meet the academic requirements for membership of the Environment Institute of Australia and New Zealand (EIANZ).				

Key: B = Bachelor of; F = Full-time; P = Part-time; nc = new course. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Further Studies

Further studies can be pursued (Honours, Masters (Hon) or PhD degree) leading to a research or academic career. An Honours year is available to high achieving students. Information and details on how to apply for Honours will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

You will also have the option of teaching secondary school science if you study the appropriate subjects and complete a Master of Teaching (Secondary). Please refer to the Teaching and Education Course Guide for details.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

Major Studies

The major studies include assessment and management of aquatic environments, water quality assessment and management, introduction to wildlife, sustainable land use, Indigenous land management, environmental planning, climate change science, environmental regulation and policy, environmental risk management and urban development.

There is a range of majors (such as aquatic and conservation biology) and sub-majors (such as sustainability) offered in Natural Science and Science that can add diversity and/or focus to your degree. There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

Previous completion of tertiary studies may qualify you for academic credit of up to 18 months making this an attractive re-skilling option for graduates from other disciplines.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Career Opportunities

Examples cover roles in the new 'green-collar' industries which include:

- » local and state government land and water management agencies
- » private environmental consultancies
- » waste management operations
- » National Parks and Wildlife Service
- » Rural Fire Service.

Professional responsibilities may include environmental protection, environmental auditing, or environmental planning.

Bachelor of Natural Science (Sustainable Agriculture and Food Security)

By 2050 global food demand is forecast to be 70% greater than current demand. This increase must be achieved from a degraded natural resource base and with a reduction in greenhouse gas emissions. To effectively address these issues will require a fundamental shift in the way we view and manage the environment, agriculture, food and health.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

Course	UAC Code	Campus	Duration	ATAR
B Natural Science (Sustainable Agriculture and Food Security)	720015	Hawkesbury	3F/6P	nc
Practical Experience				
In their final year of study, students undertake a real world project for a professional client. The project provides students with first-hand professional experience in project management and problem solving.				

Key: B = Bachelor of; F = Full-time; P = Part-time; nc = new course. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Interconnections between food security and agriculture, social stability, health, plants and animals, and the environment will be emphasised. Students will gain critical thinking skills and the ability to contribute innovative solutions to the complex challenge of future sustainable agriculture and food security.

Further Studies

Further studies can be pursued (Honours, Masters (Hon) or PhD degree) leading to a research or academic career. An Honours year is available to high achieving students. Information and details on how to apply for Honours will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

You will also have the option of teaching secondary school science if you study the appropriate subjects and complete a Master of Teaching (Secondary). Please refer to the Teaching and Education Course Guide for details.

Major Studies

The major studies are an integrated suite focusing on sustainable agriculture and food security including crop and animal production, agronomy, animal science, soil and water in the landscape, plant health and biosecurity, post harvest, global nutrition and food and community.

There is a range of majors and sub-majors (such as agricultural economics and sustainability) offered in Natural Science and Science that can add diversity and/or focus to your degree. There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Career Opportunities

Examples include employment in a diverse range of agriculture and food related organisations, in natural resource management, agricultural production, food security, public health and nutrition, and community development. The breadth and interdisciplinarity of the degree will prepare you for roles in policy, communication, planning, and implementing programs across a broad domain depending on the subjects chosen. Graduates can find employment in corporations or environmental consulting companies, working in government agencies both federal and state advising on agriculture, food and sustainability-related issues, in local government in both urban and rural areas, and in non-government organisations (NGOs) working both nationally and internationally.

After a subsequent Honours year, and possibly a PhD, you may conduct research in:

- » private industry
- » universities
- » national and international scientific organisations.

Bachelor of Engineering (Environmental)

The UWS Environmental Engineering degree is designed for anyone interested in developing and managing systems that integrate with and protect our environment, ensuring sustainable and better futures for the community.

Course	UAC Code	Campus	Duration	ATAR
B Engineering (Environmental)	722506	Penrith	4F/8P	74.50
Practical Experience				
During this course you will complete a compulsory 12 weeks of industrial experience in an approved engineering work environment – a formal requirement of Engineers Australia.				
Professional Recognition				
The Environmental Engineering course is fully accredited by Engineers Australia.				

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

This course provides an essential grounding in ecology, civil engineering and environmental management, and develops your professional skills and knowledge in engineering, with an environmental specialisation.

The future presents significant challenges to those responsible for managing the environment, infrastructure and technology within rapidly expanding urban living areas. In fact, these challenges will extend beyond urban areas as demand for water, food, construction and manufacturing materials increases.

Accelerated expansion has the potential to put our natural and cultural heritage in jeopardy. Effective solutions to these problems will require innovative strategies that reconcile the imperatives of both conservation and development.

The delivery of these solutions will be primarily through engineering, applied science, and design: the application of knowledge to achieve practical outcomes.

Core Subjects and Electives

To graduate with a Bachelor of Engineering, you will be required to complete 32 subjects (units) for a total of 320 credit points, as well as practical industrial experience.

The core and elective subjects for this degree may include: Fluid Mechanics, Resource Sustainability, Management of Aquatic Environments, Air Quality Assessment and Management, and Water and Waste Management.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Further Studies

Students can study for an Honours award during their fourth year. Entry to the Honours stream is by superior performance in the first three years. Find out more at myfuture.uws.edu.au/honours

Career Opportunities

Environmental engineers are concerned with ensuring a sustainable and better future for the community by developing and managing systems that integrate with, and protect, our environment.

The demand for environmental engineers is ever-increasing. As a graduate of the UWS Environmental Engineering degree you can pursue a career in private, industrial, and mining companies, government departments, and city, municipal and shire councils. Specific career opportunities include roles in designing solutions with a strong emphasis on environmental impact.

Bachelor of Science (Advanced Science)

The laws of science don't constrain advancement, they merely define the limits of our understanding. The University of Western Sydney's Advanced Science degree is your opportunity to expand those limits and to find new laws.

Advanced Science allows you to study the same discipline areas as the Bachelor of Science, but to a deeper level. It gives you highly specialised skills and knowledge in a science relevant to your career and research interests, and is specifically designed to meet the needs of students with a high ability and motivation in science and a desire for a career in scientific research.

The program includes advanced coursework, academic extension activities and a significant amount of research training. A mentoring program will link you with an experienced academic staff member and research groups including medical school academics. Each year a number of interview places for admission to the UWS B Medicine/B Surgery will be reserved for students in the first year of the Advanced Science program who meet specified criteria.

Course	UAC Code	Campus	Duration	ATAR
B Science (Advanced Science)	728050	Campbelltown	3F/6P	90.10
	728051	Hawkesbury	3F/6P	90.00
	728052	Parramatta	3F/6P	91.70

Professional Recognition

Depending on majors and electives chosen, graduates may satisfy the requirements for admission to various professional bodies, such as the Australian Mathematical Society and the Statistical Society of Australia, the Royal Australian Chemical Institute, the Australian Society of Microbiology, the Australian Institute of Biology, the Australian Institute of Physics, the Australian Society for Biochemistry and Molecular Biology and the Royal Zoological Society of New South Wales.

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Further Studies

An additional Honours year is available to high achieving students. The application and proposal need to be provided to the relevant academic in the final year of your Bachelor degree. Information about Honours options will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

If you are interested in pursuing a career in teaching you can consecutively study both the Bachelor of Science – Pathway to Teaching (Secondary) and Master of Teaching (Secondary) over four years. See the Teaching and Education Course Guide for more details.

Major Studies

In the Advanced Science degree you choose one of the Bachelor of Science programs at the beginning of your first year:

- » Biological sciences
- » Chemistry
- » Environmental science

- » Forensic science
- » Mathematical science
- » Nutrition and food science
- » Zoology.

See each of the specific degrees in this guide for details on campus location, majors and career opportunities. Note it is possible to change your major later in the course.

Students must maintain a grade-point average (GPA) greater than 5 to remain in the course; those who do not maintain this average will be transferred to the corresponding Bachelor of Science. Students who do not meet the entry standards of Bachelor of Science (Advanced Science) but who are offered a place in a Bachelor of Science can transfer into the advanced program after first year if they achieve a GPA greater than 5 and there are places available. At enrolment students will be required to sign a declaration acknowledging the requirement to maintain a GPA greater than 5.

Career Opportunities

This course is designed to provide early training for a career in scientific research. After a subsequent Honours year, and possibly a PhD, you may conduct research in:

- » private industry
- » universities
- » national and international scientific organisations.

In addition, graduates may also enter career paths such as:

- » science-based work in industry
- » government environmental agencies
- » forensic work
- » patent work
- » quality control
- » environmental consulting laboratories
- » medical laboratories
- » scientific equipment companies
- » teaching and health disciplines such as medicine and pharmacy (with additional training).

Please see the specific Bachelor of Science programs for career opportunities specific to the programs on offer.

Bachelor of Science

Offering a flexible and contemporary education in modern science with a variety of campus locations, the UWS Bachelor of Science degree allows you to specialise in a particular area of science or gain a broad based education in a range of sciences. You can even complement your science studies with subjects from non-science disciplines such as the arts, humanities and social sciences.

The UWS Bachelor of Science is a versatile degree that is designed for maximum flexibility for those students who are interested in the area of Science but haven't decided on a specific course of study. You can tailor your own degree to suit your areas of interest and develop a unique range of interdisciplinary skills.

Course	UAC Code	Campus	Duration	ATAR
B Science	728055	Campbelltown	3F/6P	70.25
	728056	Hawkesbury	3F/6P	70.00
	728057	Parramatta	3F/6P	70.30
Professional Recognition				
Depending on the major and electives chosen, graduates may satisfy the requirements for admission to various professional bodies, such as the Australian Mathematical Society and the Statistical Society of Australia, The Royal Australian Chemical Institute, The Australian Society of Microbiology, The Australian Institute of Biology, the Australian Institute of Physics, the Australian Society for Biochemistry and Molecular Biology and the Royal Zoological Society of New South Wales.				

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

The UWS Bachelor of Science will allow you to develop fundamental skills in quantification and analysis, as well as the capacity for critical analysis, problem solving and independent thought – the skills employers are looking for. Throughout the course, you will acquire and process knowledge in areas relevant to research and industry, and you will gain technical skills, confidence and independence in conducting laboratory work and field work.

You will also become proficient in organising and interpreting complex data and you will develop the communication skills required to present this data to an audience. Importantly, the UWS Bachelor of Science degree is very hands-on, offering you unique opportunities to participate in ground breaking research with UWS academics, well known for their research credentials and scientific developments, or at outside institutions.

These practical, skills based programs will enable you to move readily into the workforce.

Further Studies

An additional Honours year is available to high achieving students. The application and proposal need to be provided to the relevant academic in the final year of your Bachelor degree. Information about Honours options will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

If you are interested in pursuing a career in teaching you can consecutively study both the Bachelor of Science – Pathway to Teaching (Secondary) and Master of Teaching (Secondary) over four years. See the Teaching and Education Course Guide for more details.

Major Studies

This program is dedicated to the understanding and development of a broad range of sciences. Choose from any of the majors or design your own academic program within the Bachelor of Science. Majors are offered in aquatic biology, biochemistry and molecular biology, conservation biology, general biology, microbiology, nutrition and physiology, chemistry, geochemistry, climate change, forensic science and mathematics.

There are other majors and sub-majors offered in Science that can add diversity and/or focus to your degree. There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

Students who (a) have not undertaken HSC level maths, or (b) have attempted General Mathematics or Mathematics but achieved no higher than band 2 or 3 (or equivalent) will be required to take a study pattern that includes preparatory studies in mathematics in readiness for the higher level mathematics required in this program.

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Holders of relevant qualifications (i.e. Advanced Certificate, Diploma, Advanced Diploma, or equivalent) may apply for academic credit. The level of academic credit offered depends on the key program being undertaken, but may be quite significant, as in the case of the chemistry major where a TAFE Diploma in Chemical Technology may attract up to 40 per cent academic credit. Transfer to Bachelor of Science (Advanced Science) is available for meritorious students.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

Career Opportunities

Please see the specific Bachelor of Science programs for career opportunities specific to the programs on offer.

Graduates may enter career paths such as:

- » science-based work in industry
- » government environmental agencies
- » forensic work
- » patent work
- » quality control
- » environmental consulting laboratories
- » medical laboratories
- » scientific equipment companies
- » teaching and health disciplines such as medicine and pharmacy (with additional training).



James Oliver

Bachelor of Science (Gene Science), Bachelor of Science (Honours) Class 1 Currently Undertaking PhD

For people looking to study Science James Oliver believes UWS has the unique advantage of being involved in so many fields, in both undergraduate and postgraduate work, across three campuses.

'As an undergraduate it is easy to move between science degrees without having to retake units if your interests change over the years,' he says. 'My undergraduate degree gave me the opportunity to meet people with similar interests and colleges that will be helpful through my career. It really pushed me to meet contacts in companies I was interested in and give them the ability to recognise me as a possible future employee.'

'My undergraduate achievements gave me the unique opportunity to enrol in the Honours program in which I received first class honours and was invited to enrol in the PhD program with a scholarship.'

James said he chose to study at UWS initially for its choice in courses and location to home. 'I stayed with UWS for a number of reasons: the supportive academic staff that endeavour to support and encourage all students to learn, the easy location, and an atmosphere based on equality and potential, not just on marks.'

'The Science academics at UWS are some of the best minds.'

'The Science academics at UWS are some of the best minds with previous careers at the CSIRO and private firms and they always lecture with up-to-date technologies making sure you always have access to the material. The labs are new and fully equipped with some of the latest equipment. The student atmosphere is full of fun and support.'

Bachelor of Science (Environmental Science)

Solving the world's environmental problems will require professionals who are trained in the sciences underlying these issues and who understand the wider human contexts of the challenges faced. The program will open up a wide range of career opportunities for those with environmental, conservation and ecological interests.

A solid grounding in the underlying science is essential for people intending to work in this field, as they will need to integrate across a range of disciplines, to devise solutions spanning the scientific and social issues involved.

Course	UAC Code	Campus	Duration	ATAR
B Science (Environmental Science)	728080	Hawkesbury	3F/6P	nc
Practical Experience				
Graduates meet the educational requirements for membership of the Environment Institute of Australia and New Zealand (EIANZ); further professional work experience is required for full membership of the Institute.				

Key: B = Bachelor of; F = Full-time; P = Part-time; nc = new course. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Further Studies

An additional Honours year is available to high achieving students. The application and proposal need to be provided to the relevant academic in the final year of your Bachelor degree. Information about Honours options will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

If you are interested in pursuing a career in teaching you can consecutively study both the Bachelor of Science – Pathway to Teaching (Secondary) and Master of Teaching (Secondary) over four years. See the Teaching and Education Course Guide for more details.

Major Studies

Some of the major studies in this degree include conservation biology, environmental analysis, regulation and policy, environmental chemistry, climate change science, microbiological and spatial data analysis, environmental geochemistry, biodiversity

and adaptation, and ecology including aquatic ecology.

There is a range of majors (such as climate change and environmental management) and sub-majors (such as sustainability) offered in Science that can add diversity and/or focus to your degree.

There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

Students who (a) have not undertaken HSC level maths, or (b) have attempted General Mathematics or Mathematics but achieved no higher than band 2 or 3 (or equivalent) will be required to take a study pattern that includes preparatory studies in mathematics in readiness for the higher level mathematics required in this program.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

Career Opportunities

Career opportunities include roles in both the great outdoors and the office.

Choices are as diverse as environmental protection officer, environmental auditor, environmental planning consultant, pollution control officer, state-of-environment assessor, land care officer, water quality manager, conservation officer, protected area manager, and environmental scientist in environmental protection authorities, land and water management agencies, research organisations, private environmental consultancies, waste management operations, national parks and conservation services.

Bachelor of Science (Zoology)

The Zoology degree recognises the increased demand for scientific based knowledge of how to conserve, protect and care for animals, including native wildlife, and companion and production animals.

This program will allow students to develop in-depth scientific understanding of how animals function and interact with their environment, from their ecology and evolution, to physiology and biochemistry of tissues and major organs systems, as well as structure and function of biomolecules and cells. The program gives particular emphasis to the study of ecology, evolution, physiology, growth, reproduction, genetics, and conservation biology.

On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitat.

Course	UAC Code	Campus	Duration	ATAR
B Science (Zoology)	720018	Hawkesbury	3F/6P	nc
Practical Experience				
Depending on the subjects chosen, graduates are eligible to apply for membership of one or more professional societies including the Royal Zoological Society of New South Wales, the Australasian Wildlife Management Society, the Australian Mammal Society, Australasian Wildlife Disease Association, the World Aquaculture Society and the Zoological Society of London among others.				

Key: B = Bachelor of; F = Full-time; P = Part-time; nc = new course. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Further Studies

An additional Honours year is available to high achieving students. The application and proposal need to be provided to the relevant academic in the final year of your Bachelor degree. Information about Honours options will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

If you are interested in pursuing a career in teaching you can consecutively study both the Bachelor of Science – Pathway to Teaching (Secondary) and Master of Teaching (Secondary) over four years. See the Teaching and Education Course Guide for more details.

Major Studies

The major studies may include animal physiology, animal biodiversity, wildlife ecology and conservation, animal behaviour, animal adaptation to climate change.

There is a range of majors and sub-majors offered in Science that can add diversity and/or focus to your degree. There is also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, though these may require cross campus study and are subject to availability and timetabling.

Students who (a) have not undertaken HSC level maths, or (b) have attempted General Mathematics or Mathematics but achieved no higher than band 2 or 3 (or equivalent) will be required to take a study pattern that includes preparatory studies in mathematics in readiness for the higher level mathematics required in this program.

Career Opportunities

Examples include roles in animal nutrition, animal reproduction technology, animal genetics, animal behaviour, animal health product development, animal physiology, zoology, natural resource management, scientific officer and science communication management and in veterinary related areas. Graduates are also prepared for work as field or laboratory technicians, animal carers, in conservation agencies and environmental consulting companies.

With further study (Honours, Masters (Hon) or a PhD) you can also become a research scientist working across a diverse variety of areas.

Bachelor of Tourism Management

If an exciting career in the tourism, leisure or cultural industries is what you are looking for, the innovative Bachelor of Tourism Management may be for you. As one of the few tourism degrees in Australia with a social science and management focus, the Bachelor of Tourism Management degree provides you with unique and highly marketable expertise and experience in sustainable development, the cultural basis of tourism and the desirable social contributions of tourism and the tourism industry.

Course	UAC Code	Campus	Duration	ATAR
B Tourism Management	726000	Penrith	3F/6P	68.00
Practical Experience				
Students are required to complete 400 hours of supervised work experience undertaken in a tourism organisation.				
Professional Recognition				
The Bachelor of Tourism Management was developed in consultation with the tourism industry and is overseen by an External Advisory Committee.				

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

This course provides an in-depth understanding of the interactions between different aspects of the tourism industry and its natural, social and cultural environments. It integrates concern for the host or destination community and the process of tourism planning and development in the context of ecologically sustainable development.

It considers the relationships between tourism and management systems, mechanisms for regional and community planning and development and the role of tourism as a social, cultural and economic phenomenon. You will be confident and competent to make a significant contribution to tourism and tourism planning, and sensitive to the needs of tourism, tourism destination communities and the industry.

This program is conducted in close liaison with tourism organisations and professional bodies, and local governments who actively promote and manage tourism at destinations as well as tourist attractions.

Core Subjects and Electives

To graduate with a Bachelor of Tourism Management you will be required to complete 24 subjects (units), as well as approved work experience.

The core subjects you may study in this degree include Tourism in Society, The Geographies of Social Difference, Heritage and Tourism, Recreational Tourism Policy and Planning, Tourism Impact and Sustainability and Indigenous Cultures and Tourism: A Global Perspective.

There are eight elective subjects within the Bachelor of Tourism Management.

You will have the opportunity to undertake elective studies in cognate areas, including Geography and Urban Studies, Peace and Development Studies, Criminology and Criminal Justice, Heritage and Tourism.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

You may choose to complete the Indigenous Australian Studies major – for more information, please see the Indigenous Guide or visit myfuture.uws.edu.au

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Further Studies

An additional Honours year is available to high achieving students. The application and proposal need to be provided to the relevant academic in the final year of your Bachelor degree. Information about Honours options will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

Career Opportunities

As a graduate of the Tourism Management degree, you will enjoy a wide variety of career opportunities in Australia and internationally in the tourism, leisure and cultural industries. In addition, the degree is structured to ensure graduates are equipped to pursue careers in a range of fields in the public, private and not-for-profit sectors. Depending on the electives you choose, you may pursue roles in:

- » festival and event management and programming
- » leisure and tourism policy development
- » tour operations
- » destination marketing
- » visitor attractions management
- » outdoor recreation
- » hospitality provision
- » cultural, tourism and leisure industry development.



Cassandra Champley

Graduate of Tourism Management

Cassandra Champley was drawn to study Tourism Management at UWS after a visit to Open Day. 'The atmosphere of the University was very welcoming and inviting,' she says. 'Everyone seemed really nice.'

'The atmosphere of the University was very welcoming and inviting.'

'I live in the Western Sydney area and it was easily accessible for me to attend UWS. My sister and other friends of mine also attend UWS and they recommend it, saying that the tutors are extremely helpful and you get the best out of your studies.'

'The course is easy to understand, the tutors and lecturers are helpful and do not hesitate to take an active role in your studies. The relevance to the tourism industry is seen through the units, and many bases of tourism are covered.'

'It is overall an extremely enjoyable course and I would definitely recommend it to other prospective students,' she says.

Bachelor of Social Science (Heritage and Tourism)

In a highly mobile world where the preservation of historical and natural environments present as one of the major challenges facing all societies, heritage has become a touchstone for social and cultural identity, our understanding of modernity, peace and development and our senses of citizenship, custodianship and community.

Course	UAC Code	Campus	Duration	ATAR
B Social Science (Heritage and Tourism)	728501	Penrith	3F/6P	70.60

Key: B = Bachelor of; F = Full-time; P = Part-time. Note: 'part-time' refers to study load, not to timetabling of evening classes.

At the same time heritage sites have become significant tourist destinations and so in a world of flows and networks, the heritage-tourism relationship is a critical one. In the 21st century it is impossible to disentangle the two.

This major in the Bachelor of Social Science introduces contemporary heritage issues and provides an in-depth understanding of tourism as a social phenomenon. It enables a critical examination of the relationship between heritage and tourism in a number of settings within Australia and internationally. Graduates can contemplate careers within a diverse range of government and non-government organisations, and businesses that require understanding, insight and skills related to heritage and tourism.

Core Subjects and Electives

To graduate with a Bachelor of Social Science (Heritage and Tourism) you will be required to complete 24 subjects (units), as well as approved work experience.

The core subjects in this degree may include Organisations, Communities and Communication, Understanding Society, Geographies of Social Difference, The Individual in Society, Ethics in the Social Sciences, Social Research Methods, Applied Social Research and Contemporary Debates in Social Science.

In addition to the eight core subjects listed above, you must satisfactorily complete eight subjects from the Heritage and Tourism Pool which may include Tourism in Society, Issues in Contemporary Heritage, Heritage and Tourism, Recreational Tourism Policy and Planning, Heritage Interpretation, Issues in World Development: Rich World, Poor World, Indigenous Cultures and Tourism: A Global Perspective and Cultural and Social Geographies.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Further Studies

An additional Honours year is available to high achieving students. Information about Honours options will be provided to you as you progress through your Bachelor degree, or you can find out more at myfuture.uws.edu.au/honours

Career Opportunities

As a Heritage and Tourism graduate, you will possess critical understandings and skills that have applications in a wide variety of social and vocational contexts, including:

- » local government
- » community work
- » teaching (with further study)
- » heritage organisations
- » international development agencies
- » public service
- » cultural tourism.

Bachelor of Social Science (Pathway to Master of Urban Management and Planning)

If you are interested in a career in urban, social or cultural planning, the Bachelor of Social Science pathway to the Master of Urban Management and Planning is the course for you. This course gives you the professional and scholarly education to take a leadership role in urban management, strategic planning and policy development.

The coursework includes preparation in professional practice, history, and the theoretical and legal frameworks for planning. You will develop skills in a range of relevant areas including governance, urban finance and sustainable strategies.

The three year Bachelor of Social Science component of this program is only offered at Penrith. The final year Master of Urban Management and Planning is only offered at Parramatta.

Course	UAC Code	Campus	Duration	ATAR
B Social Science (Pathway to Master of Urban Management and Planning)	728505	Penrith	3F/6P	75.00
M Urban Management and Planning	952030	Parramatta	1F/2P	N/A

Practical Experience

The degree incorporates a placement with local planning/urban management employers, working on a variety of planning tasks. This placement will provide students with an understanding of the planning/urban management workplace.

Professional Recognition

The Bachelor of Social Science when completed in conjunction with the Master of Urban Management and Planning is accredited by the Planning Institute of Australia.

Key: B = Bachelor of; M = Master of; F = Full-time; P = Part-time; N/A = Not applicable, alternative entry. Note: 'part-time' refers to study load, not to timetabling of evening classes.

Core Subjects and Electives

To graduate with a Bachelor of Social Science/Master of Urban Management and Planning you will be required to complete 32 subjects (units), as well as approved work experience.

The core subjects may include Cities: An Introduction to Urban Studies, Development and Sustainability, Cultural and Social Geographies, The Economics of Cities and Regions, Planning the City: Development, Community and Systems, Contemporary Debates in Social Science, Urban Management Practice: Governance and Power in the City and Developing Sustainable Places.

There are up to seven elective subjects within the Bachelor of Social Science/Master of Urban Management and Planning. Elective subjects may include Issues in World Development: Rich World, Poor World, Sustainable Futures, Heritage Interpretation and Recreational Tourism Policy and Planning.

Indigenous Australian Studies

Enrolment in the Indigenous Australian Studies (IAS) major, sub-major or units is available to all UWS undergraduate students who have open electives. Find out more at studyias.com.au

For detailed information about the course structure and subjects, visit myfuture.uws.edu.au

Career Opportunities

After graduating from the Bachelor of Social Science/Master of Urban Management and Planning, you may pursue a career in:

- » local government
- » regional organisations
- » state and federal government departments concerned with urban and regional affairs
- » planning consultancies
- » international development agencies
- » research and policy organisations.

Providing Support Through Scholarships

The University of Western Sydney is not only about obtaining an education. We challenge ourselves to engage students who will get involved and make a difference to the University and wider communities.

UWS has a unique set of scholarships on offer with many differing criteria. They reflect our strong commitment to academic excellence and opportunity for Greater Western Sydney students. Our scholarships support students who have diverse interests and skills, and who can and do make an active contribution.

UWS works closely with business, industry, and the community to ensure we offer scholarships that meet the needs of our students. Our scholarships provide our students with support and give them the opportunity to establish professional relationships while they study.

Take the time to examine our scholarships and make the most of your opportunities for success. For details on UWS Scholarships, including the eligibility requirements and how to apply, refer to www.uws.edu.au/scholarships or call 1300 897 669.



Lori McKern

Bachelor of Natural Science (Animal Science)

Aspire Future Leaders Program

Lori McKern's lifelong love of the outdoors, nature and animals has led her to choose to study a Bachelor of Animal Science at the University of Western Sydney.

She says she found the degree appealing as it was good preparation for a number of different careers, and was not as heavily science focused as many other animal based tertiary degrees in New South Wales.

Although unsure of exactly what she wants to do when she completes her studies, Lori has an interest in working with animals in Customs and Quarantine programs. She says that no matter what her future career involves, she wants it to 'be outdoors'. Lori was brought up within the horse racing industry, and has also been involved in the greyhound racing industry. As well as working part time in a pharmacy, Lori works at greyhound racing tracks, helping with a friend's business selling products related to dog racing such as dietary supplements and bedding.

Like many others in the Aspire Future Leaders program, Lori has a long history of leadership throughout high school.

Aspiring Leaders

Aspire Future Leaders at the University of Western Sydney™ is a unique professional development and personal enrichment program that has been specifically designed to cultivate and enhance the leadership qualities of students.

By being a part of Aspire, you will have the opportunity to be involved in:

- » the annual three-day Aspire Welcome Retreat
- » professional and personal development workshops
- » valuable networking opportunities with the professional community

- » VIP Invitations to UWS Open Days and other annual events
- » volunteering opportunities through community engagement
- » internships and work experience opportunities.

Aspire is an opportunity for young, talented people with leadership abilities and ambitions, to become part of an elite group of high-achieving undergraduate students. For details on the Aspire program and eligibility requirements, please refer to serious.uws.edu.au or call 1300 897 669.

Applicant Checklist



Find out about our courses

1

- Read the information within this Guide
- Talk with Careers Advisors, your parents and teachers/mentors
- Refer to the Future Students site, visit myfuture.uws.edu.au



Talk to us

2

- Attend UWS events – find out more at myfuture.uws.edu.au/events
- Call the UWS Course Information Centre on 1300 897 669 or email study@uws.edu.au
- Get the inside information on Alternative Entry Pathways to UWS, Triple Advantage and bonus points, Scholarships and Aspire



Apply to UWS

3

- Apply through UAC, visit www.uac.edu.au
- Place your UWS Preferences
- Check your eligibility and submit a scholarship application, visit www.uws.edu.au/scholarships

For International Students

If you are an international student completing one of the following qualifications in 2011, you must apply through UAC International:

- » an Australian Year 12 in or outside Australia
- » an International Baccalaureate
- » a New Zealand National Certificate of Educational Achievement (NCEA) Level 3

All other international students must apply direct to the University of Western Sydney. UWS International application forms, 2012 International tuition fees and further information about studying in Australia can be found at www.uws.edu.au/international

If you have any questions about applying as an international student call 02 9852 5499 or email internationalstudy@uws.edu.au

For international students, you can lodge your international student application online at www.uac.edu.au/international

The University of Western Sydney reserves the right at all times to withdraw or vary courses listed within this publication. Variations may include but are not limited to location of its courses on UWS campuses or other locations. In the event that a course within this publication is to be changed or withdrawn, applicants will be advised by mail to the address specified by them on their UAC application before the last date for the change of preferences for the main round. In respect of course location change, students should be aware of the need to accommodate such changes for the whole or part of courses for which they enrol. The University also reserves the right to update, amend or replace online versions of this publication without notice.

University of Western Sydney
Locked Bag 1797
Penrith NSW 2751 Australia
www.uws.edu.au

Course Information Centre
1300 897 669
study@uws.edu.au

See you at

- ▣ UWS Day Campbelltown, 7 June 2011
- ▣ Parent Information Evening, 7 & 14 July 2011
- ▣ UWS Open Day, 28 August 2011
- ▣ UWS Campus Tours, October 2011
- ▣ UWS Day Penrith, 9 November 2011
- ▣ Course Decision Day, 3 January 2012

More information: myfuture.uws.edu.au/events

Interact with us to experience UWS Life

- ▣ Visit the Future Students Site: myfuture.uws.edu.au
- ▣ Visit the Events Mini-Site: myfuture.uws.edu.au/events
- ▣ Find us on Facebook: www.uws.edu.au/facebook 
- ▣ Connect with us on Twitter: www.twitter.com/UWSNews 
- ▣ Take a Virtual Tour: virtualevents.uws.edu.au
- ▣ Watch our YouTube videos: www.uws.edu.au/youtube 
- ▣ Call the Course Information Centre: 1300 897 669
- ▣ Email the Course Information Centre: study@uws.edu.au

