SCIENCE

UOW COURSES IN
BIOLOGICAL SCIENCES / CHEMISTRY / EARTH & ENVIRONMENTAL SCIENCES / INTERNATIONAL SCIENCE
**STUDY AT ONE OF THE WORLD’S BEST UNIVERSITIES**

WE’RE GOING PLACES

UOW is one of the best modern universities in Australia. We connect over 30,000 students from more than 130 nations to learn and discover. We’re young, we’re smart and we work hard enough to be ranked in the top 2% of universities in the world. Join us and see how far you can go.

YOU'RE IN CONTROL

Take control of your life like never before at UOW. Choose your degree. Choose a major. Choose elective subjects, and make exactly the study program you want.

THE TIME OF YOUR LIFE

Study where the brightest people take the time to learn your name. You’ll be more than a number at UOW, and be taught by world famous educators and researchers. Outside of class, you’ll be part of a campus culture defined by fun and friendship.

OUR GRADS GET JOBS

UOW graduates have the skills employers want. We’ve been rated in the top 100 in the world by employers for nearly a decade. You’ll learn how to learn, how to turn theory into practice, and how people with different skills work together.

BE SOMEONE YOU’RE PROUD OF

Challenge yourself and come out on top at UOW. Tackle big ideas in your degree, push yourself and travel the world on international exchange, bring your learning to life with a UOWx program such as mentoring local students.

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**FIVE REASONS TO STUDY SCIENCE AT UOW**

1. **LEARN FROM WORLD-LEADING RESEARCHERS**

   When you study science at UOW you learn the most current knowledge there is, direct from the people creating that knowledge. Even in your first year, the person standing at the front of the lecture theatre will be one of those ground-breaking researchers: leading researchers who are keen to instil their passion for science into each and every student, right from day one.

2. **PERFECTLY POSITIONED TO GET YOUR HANDS DIRTY**

   We know how important it is to apply theoretical knowledge to real life practical situations. That’s why when you study science at UOW you’ll spend close to half your course hours out in the field or doing practical work in our state-of-the-art labs, working with the same equipment our researchers use.

   Our campus, nestled between the rainforest and the sea, is perfectly positioned so that we can take students out of the classroom and into a wide range of coastal, freshwater, bushland, and geologically diverse environments, right on our doorstep.

3. **HELP MAKE NEW DISCOVERIES**

   Our scientists are engaged in world-first interdisciplinary research in areas such as medical biotechnology, nanotechnology, climate change, coastal management, anti-cancer drugs and protecting our biodiversity and ecosystems. Research is naturally at the heart of what we do.

4. **BRAND NEW FACILITIES MAKE LEARNING EASY**

   We understand that classrooms need to be equipped with the best in technology, that’s why at UOW we are constantly investing in the latest equipment. In our new Sciences Teaching Facility (STF), students have touch-screen devices embedded into laboratory desks where data can be analysed as it’s being collected—just like the labs in UOW’s Illawarra Health & Medical Research Institute (IHMRI).

5. **JOIN A COMMUNITY OF STUDENTS DETERMINED TO MAKE POSITIVE CHANGE**

   Throughout your degree you’ll join other students to organise and attend educational and professional events, build ties with industry, go on trips around the world, and socialise. UOW’s student clubs—like Blinnet for Biologists and Biotechnologists, UOW Groundswell for Geologists and ChemSoc for Chemists—are incubators for new ideas and connections. You’ll meet new friends and new contacts: the people who will change the world.

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LEARN YOUR WAY
DEGREES OVERVIEW

BACHELOR OF SCIENCE

The Bachelor of Science is an incredibly flexible program that allows students to design their study program to meet individual interests and abilities. In the Bachelor of Science you are able to choose between a flexible or prescribed major.

• FLEXIBLE MAJORS

Flexible majors give the freedom to find new directions for your study. If you study any of these majors, you can choose up to nine elective subjects. These might be complementary (or contrasting) science subjects, or subjects from other areas. In addition, if you choose your subjects carefully, you may satisfy requirements for a major from another Faculty. Students should consult the Faculty offering the major to confirm requirements.

• PRESCRIBED MAJORS

Prescribed majors give you a set course structure, which will help you master your discipline.

HONOURS

Honours are available as an additional year of study after completing a Bachelor degree, usually focused on a significant research project. Honours distinguish a graduate as a high achiever and it is recognised as a qualification above and beyond a Bachelor degree. Honours students prove to employers they are independent learners with advanced research skills, vital to most science careers. Completing Honours is also the main path from an undergraduate degree to a PhD. Unless you choose an Advanced Honours degree (automatic Honours entry), you can apply for Honours at the end of your degree—you don’t have to do anything now except think of the possibilities.

SPECIALIST DEGREES AND SPECIALIST HONOURS DEGREES

Our specialist degrees are highly prescribed and tend to be longer to give you the best possible coverage of all areas in that specialised area. They provide less flexibility for you to tailor your program of study, but offer a higher level of mastery for that given specialist study area.

These degrees are often necessary for specialised professional careers, and suitable for anyone who wishes to pursue their interest to the highest level. For these reasons, specialist degrees are often looked on more favourably by employers and present more employment opportunities.

BACHELOR OF SCIENCE ADVANCED (HONOURS) AND DEAN’S SCHOLAR DEGREES

If you want a challenge, the Bachelor of Science Advanced (Honours) or Dean’s Scholar degrees will give you freedom to push yourself as far as you want to go. These degrees are for high-achieving students who want to take their studies further. These degrees include a fourth year with automatic entry into Honours without having to apply. In addition to the scientific training, you'll have access to a number of special benefits and opportunities including:

• Access to research only subjects
• Networking, mentoring and professional development activities

BACHELOR OF SCIENCE ADVANCED (HONOURS) INCLUDING HONOURS YEAR: 4 years, ATAR 85

<table>
<thead>
<tr>
<th>Bachelor of Science Advanced (Honours)</th>
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<td>Bachelor of Science (Biological Sciences)</td>
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<td>Bachelor of Science (Environment)</td>
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<td>Bachelor of Science (Conservation Biology)</td>
<td>Bachelor of Science (Medical Chemistry)</td>
<td>Bachelor of Science (Ecology)</td>
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<td>Bachelor of Science (Medical Biotechnology)</td>
<td>Bachelor of Science (Nanotechnology)</td>
<td>Bachelor of Science (Ecosystems)</td>
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SPECIALIST DEAN’S SCHOLAR DEGREES INCLUDING HONOURS YEAR: 4 years, ATAR 85

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<tr>
<th>Bachelor of Conservation Biology (Honours) (Dean’s Scholar)</th>
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KEY: F = Flexible degree, P = Prescribed degree

* A one-year Bachelor of Science (Honours) is available to high achieving students interested in further study or a career in research on completion of these degrees. Check coursefinder.uow.edu.au for the details.

DOUBLE DEGREES

A double degree lets you study two degrees at the same time and complete it quicker than if you studied them one after the other. By completing two degrees you’ll broaden your career options—or prepare yourself for highly specialised careers.

The Bachelor of Science is available in the following double degree combinations:

BACHELOR OF SCIENCE – Bachelor of Arts

<table>
<thead>
<tr>
<th>Bachelor of Science – Bachelor of Arts</th>
<th>Bachelor of Science – Bachelor of Commerce</th>
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<td>ATAR 75</td>
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<td>LOCATION Wollongong</td>
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The Bachelor of Science is available in the following double degree combinations:
CATHERINE ROUT
International Bachelor of Science
Graduate Production Officer, Sydney Water Corporation

These degrees are distinctive in their design. The integration of international, social science, business and/or technology components, our strong links with research partner institutions, in addition to a core science and/or health degree makes this a standout degree at UOW.

The International Bachelor of Science (Honours) is offered by UOW in conjunction with the University of Colorado in the USA and Dublin City University in Ireland. Students completing this degree undertake at least one semester of overseas study at a partner university, and complete a major Honours-level research project in the final year of the program.

Students completing the three-year degree are strongly encouraged to undertake at least one semester of overseas study at a partner institution.

ENTRY
Entry into either program is very competitive. The following criteria will be used in the selection of students for either degree:

- Outstanding academic achievement
- Awareness of international issues, especially as they relate to science
- High performance in science and technology subjects at high school

Applicants must submit a special application form available at smah.uow.edu.au/adv-applications

DEGREE STRUCTURE

MAJORS

Choose at least one approved major from the following list:

- Biological Sciences page 14
- Chemistry page 18
- Geology page 10
- Geosciences page 11
- Human Geography check coursefinder.uow.edu.au
- Medicinal Chemistry page 24
- Nanotechnology page 21
- Nutrition check coursefinder.uow.edu.au
- Physical Geography page 12
- Sport and Movement Science check coursefinder.uow.edu.au

OUR INTERNATIONAL PARTNERS

Throughout your degree, you’ll have opportunities to study at one or both of our international science partners as well as share video-linked virtual classes with students on the other side of the world.

UNIVERSITY OF COLORADO (BOULDER)

Operating since 1877 and located in the scenic city of Boulder, the University of Colorado is one of the most visually spectacular campuses in the USA. Located within the Rocky Mountain region of Colorado, the region is abundant with streams, lakes, and snow and ski resorts. It is also one of 34 U.S. public institutions belonging to the prestigious Association of American Universities (AAU) and the only member in the Rocky Mountain region. To find out more about the University of Colorado - Boulder, please visit: www.colorado.edu

DUBLIN CITY UNIVERSITY

Founded in 1880 the university is located on 35 hectares within Dublin City, Ireland. The University has a strong reputation for research and academic excellence recognised internationally and like UOW is ranked among the top 50 Universities worldwide (QS ‘Top 50 under 50’, 2012). To find out more about Dublin City University, please visit: www.dcu.ie

MINORS

Choose at least two minors from the following list:

TECHNOLOGY MINOR
Select from a wide range of subjects including Engineering, Technology, Informatics, Information and Communication Technology, Internet Technology, Mathematics, Physics and Sciences.

SOCIAL SCIENCE MINOR
Select from a wide range of subjects including Economics, Human Geography, Languages, Management, Politics, and Science Technology and Society.

BUSINESS MINOR

GLOBAL SCIENCE STUDY COMPONENT

Participate in three “global classroom” subjects with students from the partner institutions. The subjects comprise International Perspectives in Science, Ethical Dilemmas in Science, and Research Frontiers in Science and Technology.

EXCHANGE COMPONENT

For students undertaking the four-year International Bachelor of Science (Honours), at least one semester of the degree is to be completed at one of the partner institutions. Successful applicants will receive a $5000 International Bachelor of Science Exchange Bursary. Students completing the three-year degree are strongly encouraged to undertake at least one semester of overseas study at a partner institution.

HONOURS RESEARCH PROJECT

For students undertaking the four-year International Bachelor of Science (Honours), an Honours research project is undertaken in the area of your specialisation during the final year of the program.

On graduating, Catherine was offered one of 12 places within the Sydney Water Graduate Program. 1,500 graduates applied for the 3-year program involving three 12-month placements in different divisions of the Sydney Water Corporation.

"I intend to take full advantage of the flexibility available within the graduate program and try my hand at policy, infrastructure planning and human resources.

"I've come to realise that of all the things I learned at UOW, the ability to communicate is perhaps the most important. All those hours spent completing group presentations, and negotiating roles and responsibilities, represent exactly the same types of challenges I face on a daily basis in my workplace."
My UOW degree provided plenty of practical experience, both on and off campus. A fieldtrip to Broken Hill during my third year was a highlight. We saw awesome geological features, toured historical mines and met people from industry. Sentimentally, it felt something of a full-circle as my passion for geology began when I was young and my father gave me rock and mineral samples from Broken Hill.

I recently started at Geoscience Australia as part of their Graduate Program. It’s a fantastic one-year program that will allow me to make a real contribution. I’m heading on fieldwork soon and I know the practical skills I gained during my UOW degree will be invaluable.

RUSLAN SIMPSON
Bachelor of Science (Geology) Honours
Graduate Role, Geoscience Australia

PHOTO: Commonwealth of Australia (Geoscience Australia) 2015
GEOLOGY

Bachelor of Science (Geology)
go.uow.edu.au/bsci-gest
ATAR 75
DURATION 3 years full-time or part-time equivalent
STARTS Autumn (February)
LOCATION Wollongong
UAC 757600
CRICOS 00389D

WHAT YOU STUDY
Geologists gather and interpret data about the Earth for the purpose of maintaining our existence on the planet, increasing our understanding of the planet, and improving our quality of life. They investigate the materials, processes and history of the Earth to aid the discovery of materials of value, identify geologically stable sites for major structures and provide foreknowledge of dangers associated with the mobile forces of the dynamic Earth. Geologists can locate materials and minerals and advise on extraction, environmental protection and rehabilitation of land after mining.

YOUR DEGREE
Studying geology at UOW means you have access to our Spatial Analysis Laboratory, world-first dating techniques, drilling and coring equipment and X-ray laboratory. The Wollongong area has an active mining industry and is surrounded by a vast range of landscapes to ensure you get the best possible fieldwork experience. Your studies in geology will prepare you for a career in mining, exploration, with government agencies and departments at all levels, and in research organisations.

CAREERS
Geologists find careers in mining and natural resources exploration, environmental consulting agencies, construction and government agencies and departments who advise on earth and environmental monitoring and emergency disasters. Geologists can also help further our scientific understanding of the earth in research organisations and universities.

Example careers include:
- Geologist
- Biocenosis Technician
- Exploration Geologist
- Oceanographer
- Land Management Specialist
- Water Resource Manager

International Bachelor of Science (Honours) (Geology)
go.uow.edu.au/bsci-adv
ATAR 95
DURATION 4 years full-time or part-time equivalent
STARTS Autumn (February)
LOCATION Wollongong
UAC 757601
CRICOS 08474C

Bachelor of Science Advanced (Honours) (Geology)
go.uow.edu.au/bsci-hons
ATAR 95
DURATION 4 years full-time or part-time equivalent
STARTS Autumn (February) Spring (July)
LOCATION Wollongong
UAC 757621
CRICOS 003283D

WHAT YOU STUDY
You will study how planet Earth functions, its composition and origin. You will explore geological time, the Solar System, the interior of Earth, tectonics and structural geology, crystals, minerals, volcanoes and volcanic processes, as well as the characteristics of igneous, sedimentary and metamorphic rocks. Areas of specialisation study in the Geology major include:
- Plate tectonics
- Resources and environments
- Water resources and management

On completion of the Bachelor of Science (Geology), high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information. This one-year degree offers students a pathway to expanding their knowledge in geology and achieving their research aspirations.

YOUR DEGREE
Geosciences brings together knowledge about the Earth’s processes, materials and landscapes to how people interact with them to address environmental issues. Geoscientists provide information for solving problems and establishing policy for resource management, natural hazard management, environmental protection, and planning for public health, safety and welfare.

WHAT YOU STUDY
You will study:
- Planet Earth
- Landscape Change and Climatology
- Introductory Spatial Science
- Geographic Information Science
- Remote Sensing of the Environment

The flexibility of the course will allow you to choose electives from a range of subjects such as Biogeography and Environmental Change, Sediments and Fuels, Environmental Impact of Societies, and Resources and Environments. You may also choose from outside of the Faculty to tailor the course to your interests.

On completion of the Bachelor of Science (Geosciences), high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) program. Check coursefinder.uow.edu.au for more information. This one- year degree offers students a pathway to expanding their knowledge in geosciences and achieving their research aspirations.

YOUR DEGREE
Studying geosciences at UOW means you have access to our Spatial Analysis Laboratory, world-first dating techniques, drilling and coring equipment and X-ray laboratory. The Wollongong area has an active mining industry and is surrounded by a vast range of landscapes to ensure you get the best possible fieldwork experience. Your studies in geosciences will prepare you for a career in mining, exploration, with government agencies and departments at all levels, and in research organisations.

CAREERS
Geoscientists provide information for solving problems and establishing policy for resource management, natural hazard management, environmental protection, and planning for public health, safety and welfare.

Example careers include:
- Conservationist
- Environmental Geographer
- Environmental Scientist
- Environmental Planner
- Land Economist
- Social Planner
- Geography Teacher
- Social Scientist

International Bachelor of Science (Geosciences)
go.uow.edu.au/bsci-geos
ATAR 75
DURATION 3 years full-time or part-time equivalent
STARTS Autumn (February)
LOCATION Wollongong
UAC 757600
CRICOS 00389D

Entry
ATAR: 75
CRICOS: 00389D

Example
Geosciences brings together knowledge about the Earth’s processes, materials and landscapes to how people interact with them to address environmental issues. Geoscientists provide information for solving problems and establishing policy for resource management, natural hazard management, environmental protection, and planning for public health, safety and welfare.
Physical Geographers study patterns and processes in the environment caused by the forces of nature, with particular emphasis on their spatial arrangement and evolution over time. They examine environmental and ecological problems facing the world and provide the skills and knowledge to help manage them.

WHAT YOU STUDY
You will study:

- Landscape Change and Climatology
- Earth Environments and Resources
- Climate Change
- Biogeography and Environmental Change
- Spatial Science
- Fluvial Geomorphology and Sedimentology
- Coastal Environments

Either of the Bachelor of Science degrees offers a wide range of electives within and outside of the Faculty allowing you to tailor the course to your interests. On completion of the Bachelor of Science (Physical Geography), high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) program. Check coursefinder.uow.edu.au for more information. This one-year degree offers students a pathway to expanding their knowledge in physical geography and achieving their research aspirations.

YOUR DEGREE
At UOW the Bachelor of Science (Physical Geography) focuses on understanding physical landscapes and the dynamics of environmental processes acting on the surface of the Earth, which is essential for the identification, assessment and management of environmental issues. You will study the implications of environmental and geological aspects of resource utilisation on Earth.

The course includes practical laboratory and/or fieldwork, and you will take advantage of the superb local marine life, coastal landscapes, nearby rainforest escarpment, and freshwater and terrestrial ecosystems during your study. These skills are in demand across a broad range of sectors including government bodies, industry and consultancies.

CAREERS
Physical Geographers apply the latest technologies in spatial analysis and satellite imagery within the context of environmental management, and coastal and fluvial geomorphology. They are employed across a broad range of sectors including government bodies, industry and consultancy companies.

Example careers include:
- Biogeographer
- Environmental Planner
- Land Economist
- Mapping Scientist
- Mitigation Officer
- Park Ranger
- Planning Officer
- Transport Geographer

“When you study at UOW, you’ll learn from passionate researchers who are dedicated to their field, and to teaching the next generation.”

UDW lecturer, Dr Sarah Hamlyton is a scientist piecing together the climate change puzzle by mapping the seafloor using the Worldview-2 satellite and data gathered from an expedition to Lizard Island.

“It’s frustrating that we have enough data to understand the influence of burning fossil fuels on the marine environment right now—we understand enough to make positive changes. I know that when I see a bleached coral it most likely got that way by being too hot for too long, and that warmer sea surface temperatures are linked to broader climate change.”

DR SARAH HAMLYTON
Lecturer in Earth and Environmental Sciences
BIOLOGICAL SCIENCES

Bachelor of Science (Biological Sciences)

go.uow.edu.au/bsci

DURATION: 3 years full-time or part-time equivalent
ATAR: 75
STARTS: Autumn (February) / Spring (July)
LOCATION: Wollongong
UAC: 751601
CRICOS: 00383D

International Bachelor of Science (Honours) (Biological Sciences)

go.uow.edu.au/bsci-adv

DURATION: 4 years full-time or part-time equivalent
ATAR: 95
STARTS: Autumn (February) / Spring (July)
LOCATION: Wollongong
UAC: 751601
CRICOS: 00476G

WHAT YOU STUDY

You will study the major concepts and technologies of modern biology including the evolution of the cell, the structure of DNA, ecology of populations and communities, evolutionary biology and the origin of species, organisms, their classification and lifestyles.

You will choose to focus on one of the following major study areas:
- Biochemistry
- Molecular Biology
- Cell Biology
- Immunology
- Comparative Physiology
- Ecology
- Terrestrial Ecology
- Marine Biology
- Evolutionary Biology
- Environmental Biology
- Conservation Biology

Either of the Bachelor of Science degrees offers flexibility, allowing you to choose several electives that can be tailored to your interests. On completion of the Bachelor of Science (Biological Sciences), high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information.

YOUR DEGREE

Field and laboratory studies are built into appropriate subjects at all levels and take advantage of state-of-the-art laboratories, the superb local marine, freshwater and terrestrial environments on the South Coast and inland regions.

CAREERS

The applications of biological science—and therefore career options—are diverse. Advances in biology affect thinking, research and work in conservation, biodiversity, evolution, ecology, genetics, molecular biology and medical research.

Example careers include:
- Animal Biologist
- Biological Oceanographer
- Forensic Biologist
- Medical Scientist
- Microbiologist
- Research Scientist

CONSERVATION BIOLOGY

Bachelor of Science (Conservation Biology)

go.uow.edu.au/bsci-consbiol

DURATION: 3 years full-time or part-time equivalent
ATAR: 75
STARTS: Autumn (February) / Spring (July)
LOCATION: Wollongong
UAC: 751601
CRICOS: 003283D

Bachelor of Conservation Biology (Honours) (Honours)

go.uow.edu.au/bconsbiol-hons

DURATION: 4 years full-time or part-time equivalent
ATAR: 95
STARTS: Autumn (February)
LOCATION: Wollongong
UAC: 751601
CRICOS: 004488D

Bachelor of Conservation Biology (Honours) (Dean’s Scholar)

go.uow.edu.au/bconsbiol-ds

DURATION: 4 years full-time or part-time equivalent
ATAR: 80
STARTS: Autumn (February)
LOCATION: Wollongong
UAC: 751601
CRICOS: 004488D

WHAT YOU STUDY

Your first-year studies in biology, chemistry, and earth and environmental sciences lead to second-year studies in how organisms function, plant and animal ecology, and landscape science. In third year your studies will focus on research training and experience in conservation biology and ecology.

YOUR DEGREE

The Bachelor of Science (Conservation Biology) is a practical degree that will give you the knowledge and skills to become an accomplished conservation biologist that can develop strategies to minimise the impact of humans on their environment. On completion of the three-year degree, high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information.

In the four-year Honours degrees, you will learn the skills needed to undertake postgraduate research and become an accomplished conservation biologist. A significant component involves experience in how research skills are incorporated into policy and management of biodiversity through contact with practising conservation biologists in both government and non-government agencies. In your final year you will undertake a substantial piece of supervised research. Training in research methodology is carried out with conservation biology researchers from the School of Biological Sciences at UOW.

The Bachelor of Conservation Biology (Honours) (Dean’s Scholar) is a practical degree for high-achieving students. You will be invited to participate in networking and mentoring opportunities and after the first year, to develop a close association with an appropriate member of one of the faculty’s research teams.

Our collaborations with industry and government researchers will provide you with real-world experience in land management and conservation, leading to valuable links with potential employers. You will be trained to achieve a career in government, advising on policy or managing biodiversity, or facilitating and undertaking research for conservation both in Australia and overseas.

Example careers include:
- Biological Sciences Technician
- Conservationist
- Ecological Biologist
- Environmental Scientist
- Animal Biologist
- Animal Research Scientist
MARINE SCIENCE

Bachelor of Marine Science

go.uow.edu.au/bmarssci

ATAR  85
DURATION  3 years full-time or part-time equivalent
STARTS  Autumn (February)
LOCATION  Wollongong
UAC  751922
CRICOS  039553A

Bachelor of Marine Science (Honours)

go.uow.edu.au/bmarssci-hons

ATAR  85
DURATION  4 years full-time or part-time equivalent
STARTS  Autumn (February)
LOCATION  Wollongong
UAC  751964
CRICOS  083556K

Bachelor of Marine Science (Honours) (Dean’s Scholar)

go.uow.edu.au/bmarssci-ds

ATAR  95
DURATION  4 years full-time or part-time equivalent
STARTS  Autumn (February)
LOCATION  Wollongong
UAC  751923
CRICOS  084844E

Marine Science is the study of the ocean. Marine scientists look into the biological nature and capacity of oceans, their impact on human society and the conservation and environmental management of marine and coastal resources and regions. They spend their time observing, defining and experimenting with coastal processes, biodiversity and climate change, as well as using emerging technologies to ensure the sustainable management of these environments.

WHAT YOU STUDY

You will study common core science subjects early in this degree before focusing on subjects fundamental to your understanding of marine science:

- Biodiversity of Marine and Freshwater Organisms
- Ecology
- Oceanography
- Conservation Biology
- Marine and Terrestrial Ecology
- Coastal Environments
- Fisheries and Aquaculture

YOUR DEGREE

UOW’s Bachelor of Marine Science takes advantage of the diverse NSW South Coast environment, which is an ideal location to undertake specialist marine training. This setting provides plenty of fieldwork opportunities in addition to the extensive laboratory-based learning you will undertake during the course. The specialist marine training, combined with a broad background in biology and geosciences opens up a range of employment opportunities in government and industry organisations.

On completion of the three-year Bachelor of Marine Science degree, high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) program. Check coursefinder.uow.edu.au for more information.

Honours is built into both four-year degrees and in the final year you will undertake a substantial piece of supervised research, together with other required seminars and coursework. An Honours degree in Marine Science opens up opportunities in organisations such as State Fisheries, CSIRO, museums, local councils and environmental consultancies.

The Bachelor of Marine Science (Honours) (Dean’s Scholar) is designed specifically for high-achieving students interested in a challenging degree leading to a career in scientific research. You will be invited to participate in networking and mentoring opportunities and, after the first year, to develop a close association with an appropriate member of one of the faculty’s research teams.

CAREERS

Marine scientists find careers in government, industry and environment-related companies providing analysis, advice and scientific evidence to direct practice.

Example careers include:

- Biological Oceanographer
- Biological Sciences Technician
- Coastal Management Engineer
- Marine Biologist
- Science Teacher

When it came to choosing a university, Wollongong’s diverse natural environments and the quality of the science program at UOW were too much to ignore. The various field trips and practicals associated with the marine and undergraduate biology subjects were invaluable.

My role as part of the scientific team at Gnaraloo means I’m on the beach most days and some nights undertaking digital mapping, spatial analysis and monitoring the turtles that use the Gnaraloo Bay Rookery for nesting.

There is also a large community outreach portion of the program. We visit universities, schools and community groups and give presentations about turtle and marine conservation.

ANDREW LEACH
Bachelor of Marine Science (Honours)
Scientific Intern, Gnaraloo Turtle Conservation Program
CHEMISTRY

Bachelor of Science (Chemistry)
go.uow.edu.au/bsci-chem
ATAR 75
DURATION 3 years full-time or part-time equivalent
STARTS Autumn (February) Spring (July)
LOCATION Wollongong
UAC 73163
CRICOS 003283D

WHAT YOU STUDY
In your first year you will study the fundamentals of chemistry with an emphasis on molecular structure and reactivity. In your second year you will study four core subjects:
- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry
- Analytical Chemistry

In your third year you will explore subjects such as:
- Instrumental Analysis
- Environmental Chemistry
- Molecular Structure and Spectroscopy
- Bioinformatics

On completion of the Bachelor of Science (Chemistry), high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information.

YOUR DEGREE
Graduating with a Bachelor of Science (Chemistry) at UOW will give you the knowledge and skills to apply chemistry across the full range of technically based disciplines including solid-state physics, astrophysics, molecular biology, life sciences, geochemistry, environmental science, engineering and health sciences. These skills include both analytical and problem-solving skills, as well as expertise in using sophisticated laboratory instrumentation, which is highly valued by employers in all sections of the economy.

CAREERS
Chemists enjoy some of the broadest career options of any scientist, due to the fundamental importance of chemistry in many scientific and commercial endeavours. However, the highest demand for chemists is in research and pharmaceuticals.

In research and development, chemists can work on projects from basic molecular research to development of nanomaterials in multidisciplinary teams, like the teams found in UOW’s Australian Institute for Innovative Materials (AIM). In the industrial and commercial setting, chemists can work on anything from synthesising pigments to manufacturing microelectronics, or advanced materials.

Example careers include:
- Biochemist
- Environmental Chemist
- Forensic Chemist
- Forensic Scientist
- Geochemist
- Research Scientist

International Bachelor of Science (Honours)
go.uow.edu.au/intbsci-hons
ATAR 95
DURATION 4 years full-time or part-time equivalent
STARTS Autumn (February)
LOCATION Wollongong
UAC 73793
CRICOS 08495J
ENTRY ATAR, additional application form and interview

Refer to page 18

THOMAS GRIFFITHS
Bachelor of Science Advanced (Honours) (Chemistry)
PhD – Chemistry (Current)
Past President – Chem Soc
Postgraduate Rep – Science, Medicine & Health
Postgraduate Rep – Academic Senate

CHEMISTRY is the study of the molecular nature of all matter and its interactions. By providing the ability to understand the relationship between the structure of molecules, and their properties, chemistry plays an essential and central position in science and technology.

Thomas has always held a curiosity to how the world works. This passion for uncovering the unknown has driven him to complete his PhD in Chemistry at UOW. As a scientist, I am continuously forming collaborations with other students and teachers, sharing knowledge and building on research as a group. All of these incredibly interesting people sharing their ideas and knowledge make the learning environment really motivating. You are constantly saying, ‘oh, that’s really cool, I wonder if I can use that piece of information in my research?’.

Studying in an environment like this makes it really easy to make friends. The hours we spent studying, eating Noodle Box, and revving ourselves up with caffeine for 8:30am chemistry labs turned my peers into my best friends. The people you meet during your studies at UOW are the people who will change the world, and you can be a part of that. It’s a really exciting thought.
NANOTECHNOLOGY

Bachelor of Science (Nanotechnology)
go.uow.edu.au/bsci-nano
ATAR  75
DURATION   3 years full-time or part-time equivalent
STARTS  Autumn (February) Spring (July)
LOCATION  Wollongong
UAC  70163
CRICOS  003283D

Bachelor of Nanotechnology (Honours)
go.uow.edu.au/bnano
ATAR  85
DURATION   4 years full-time or part-time equivalent
STARTS  Autumn (February)
LOCATION  Wollongong
UAC  701625
CRICOS  001100D

Bachelor of Nanotechnology (Honours) (Dean’s Scholar)
go.uow.edu.au/bnano-ds
ATAR  95
DURATION  4 years full-time or part-time equivalent
STARTS  Autumn (February)
LOCATION  Wollongong
UAC  701738
CRICOS  032458A

Nanotechnology is the study, manipulation or exploitation of very small (nano) molecular structures and assemblies, such as nanoparticles, quantum dots, carbon nanotubes and graphene composites. It brings together many disciplines such as physics, materials science, chemistry and molecular biology, and contributes to innovative solutions that address global challenges such as the provision of sustainable energy, a clean environment and improved cost-effective medical treatments.

WHAT YOU STUDY
You will explore the advantages of technologies built in the nano-dimension. Through case studies in areas including biomimetics and nanostructured materials you will learn the importance of design, synthesis and characterisation in the realisation of the end-products. Subjects include:

- Chemistry
- Biology
- Physics
- Mathematics
- Materials Science

YOUR DEGREE
The Bachelor of Science (Nanotechnology) has a materials chemistry focus with possible electives in physics, engineering (e.g. mechatronics) and biology. On completion of this three-year degree, high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information.

The four-year degrees have a materials chemistry focus with possible electives in physics, engineering and biology, allowing you to tailor the qualifications to your area of interest. You will have a high degree of personal contact with staff undertaking research at the forefront of their field. Honours is built in to your final year in both degrees and you will undertake a substantial piece of independent research in Nanomaterials or Nanotechnology, under the supervision of a leading researcher, together with course work.

The Bachelor of Nanotechnology (Honours) (Dean’s Scholar) is designed specifically for high-achieving students interested in a challenging degree leading to a career in scientific research. You will be invited to participate in networking and mentoring opportunities and, after the first year, to develop a close association with an appropriate member of one of the faculty’s research teams.

CAREERS
Drawing on the internationally recognised strengths of the University’s materials-based research institutes, this course provides you with the ideal preparation for a career in the emerging field of nanomaterials. Nanotechnology scientists are employed by research institutes, either in universities or for private industry.

In private industry, their work is valuable in materials development and microelectronics. There are a rapidly growing number of opportunities for commercial development of medical and micro-robotic technologies currently being researched.

Example careers include:

- Laboratory Analyst
- Product Development Manager
- Research Scientist
- Science Teacher
- Scientific Policy Officer
- Scientific Writer
MEDICAL BIOTECHNOLOGY

Bachelor of Science (Medical Biotechnology)
go.uow.edu.au/bsci-medbio
ATAR  75
DURATION  3 years full-time or part-time equivalent
STARTS  Autumn (February) Spring (July)
LOCATION  Wollongong
UAC  757621
CRICOS  003283D

Medical Biotechnology is the application of exciting advances in molecular and cell biology to medicine, agriculture, and the environment. Through modern technologies such as genetic engineering, biotechnology is shaping diverse aspects of medicine (cancer, vaccines, therapy and diagnosis of genetic diseases), food production (transgenic plants) and industry (bio remediation).

WHAT YOU STUDY
All students study the following core subjects in their first year:
- Biochemistry
- Bioinformatics
- Cellular and Molecular Biology
- Genetics
- Human Anatomy and Physiology
- Infection and Immunology

On completion of the three-year Bachelor of Science (Medical Biotechnology) degree, high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information.

In the four-year degrees you will complete a major in cellular and molecular biology, including genetics, immunology and bioinformatics. You will also complete a major strand of chemistry and an optional strand in human anatomy and physiology. The nature of subjects like genetic engineering means you will also complete studies in ethics and management.

Honours is built into both four-year degrees; in the final year you will undertake a supervised research project that includes a professional development component with tutorials on bioinformatics, scientific paper writing, the preparation of a CV and job application, applications for animal ethics, grants and the use of genetically modified organisms.

The Bachelor of Medical Biotechnology (Honours) (Dean’s Scholar) degree is designed specifically for high-achieving students interested in a challenging degree leading to a career in scientific research. You will be invited to participate in networking and mentoring opportunities and, after the first year, to develop a close association with an appropriate member of one of the faculty’s research teams.

ACCREDITATION
Graduates qualify to apply for membership to the Australian Institute of Biology, the Australian Society of Microbiology and the Australian Biotechnology Society.

CAREERS
Graduates are employed in a variety of fields around the world, including environmental research, patent consultancy and medical research. Many graduates continue into Doctoral degrees or Pharmacy and Medical degrees.

Example careers include:
- Clinical Research Coordinator
- Laboratory Analyst
- Medical Technician
- Pathology Scientist
- Research Scientist

My research is focused on trying to develop and optimise a new type of cancer drug that will specifically target a receptor on the surface of tumour cells. These drugs will deliver a toxin only to a tumour cell and kill it. I love the field and I am focused on trying to understand why some cancers metastasise, and others do not.

NATHANIAL HARRIS
Doctor of Philosophy
Bachelor of Science (Honours) (Biological Sciences)
Bachelor of Science (Medical Biotechnology)
Bachelor of Medical Science

Metastasis is the spread of tumour cells to distant organs. More than 90 per cent of people with a cancer die from metastatic disease, which also causes the vast majority of suffering associated with cancer. If we can understand this phenomenon, then it should be possible to prevent much of the death associated with cancer.
MEDICINAL CHEMISTRY

Bachelor of Science (Medicinal Chemistry)
go.uow.edu.au/bsci-medchem

Medicinal Chemistry covers all elements of the development of new medicines for human use, including the isolation of new medicinal agents from natural sources, the design and synthesis of new drugs, and understanding the cause of diseases at the molecular level. Medicinal chemists design and synthesise new medicinal and pharmacological agents, monitor guidelines for testing drugs and analyse drug regulatory affairs, assess patent applications for new drugs and teach in tertiary institutions.

WHAT YOU STUDY

As well as fundamental training in the chemical sciences, you will also study physiology, biochemistry and pharmacology, in order to understand the mechanisms by which diseases affect the human body, and how drugs can prevent disease. You will also study specialised subjects describing drug discovery and design techniques that use both computer-aided and bio-prospecting approaches.

YOUR DEGREE

The Bachelor of Science (Medicinal Chemistry) degree provides excellent training in modern drug design and discovery techniques. On completion of this three-year degree, high performing students considering further study or a career in research should consider the Bachelor of Science (Honours) one-year program. Check coursefinder.uow.edu.au for more information.

Honours is built into both four-year degrees and in your final year you will undertake a substantial piece of independent research in Medicinal Chemistry, under the supervision of a leading researcher, together with other course work.

The Bachelor of Medicinal Chemistry (Honours) (Dean’s Scholar) degree is designed specifically for high-achieving students interested in a challenging degree leading to a career in scientific research. You will be invited to participate in networking and mentoring opportunities and, after the first year, to develop a close association with an appropriate member of one of the faculty’s research teams. The degree provides excellent training in the modern techniques of chemical science applied to medicine.

ACCREDITATION

This degree structure is designed to meet the qualifying standards of the Royal Australian Chemical Institute, and students meeting the course requirements will be eligible for corporate membership as Chartered Chemists.

CAREERS

On completion you will be ready for a career in the pharmaceutical industry, government agencies (health, agriculture, food and drug administration) or research organisations. Medicinal chemists often work in the pharmaceutical industry, focusing on the synthetic route of pharmaceutical compounds and drug discovery. Pharmaceutical companies are always engaged in ongoing and well-funded discovery projects, making this an appealing area of work for people excited by the ‘frontier’ of scientific investigation.

Typically, medicinal chemists will find employment in:
- Government agencies – in health, agriculture, food and drug administration
- Industrial pharmaceutical manufacturing organisations
- Private pharmaceutical companies – often in research and development

MEDICINE

Bachelor of Pre-Medicine, Science and Health
NEW in 2016!
go.uow.edu.au/bpremedsci

THOSE WHO BUILD A SUCCESSFUL CAREER IN HEALTH AND MEDICINE KNOW MORE THAN JUST FACTS AND FIGURES—they demonstrate a commitment to the ideal of ‘service to society’. Pre-medical studies build a foundation for your entry into a medical school to undertake further study in preparation for a career as a doctor, surgeon, or for further postgraduate study enabling you to pursue a career in dentistry, pharmacy, physiotherapy, occupational therapy and radiology.

WHAT YOU STUDY

In your first year you will study foundational anatomy, biology, chemistry, exercise physiology and effective communication in healthcare settings.

In years two and three, under the guidance of the course coordinator, you can tailor your interests by selecting one of nine specialisations:
- Biomedical Research
- Exercise Science
- Health Informatics
- Health Practice
- Medical Radiation Physics
- Medical Science
- Molecular Medicine
- Nutrition
- Medical Geosciences

In year three, a capstone subject examines case studies across six topics. The case studies are explored via scientific summaries, clinical trial critiques, media reporting, essays and debates.

YOUR DEGREE

Unique to the course is a Foundations for Graduate Australian Medical School Admissions Test (GAMSAT) subject in the first year. It provides an excellent understanding of, and preparation for, the GAMSAT exam.

Extracurricular activities outside of the classroom are vital to demonstrate your leadership, dedication and cooperation. From your first year in the course you will have opportunities to participate in a wide range of volunteer and enrichment activities in the community. These will assist you in developing real world skills and a readiness for a career in health and medicine.

The top six performing domestic students who meet the minimum admission criteria for the Bachelor of Medicine Bachelor of Surgery (MBBS) at UOW will be guaranteed a UOW Graduate School of Medicine (GSM) interview.
Bachelor of Medicine Bachelor of Surgery (MBBS)

go.uow.edu.au/mbbs

LOCATION  Wollongong, Shoalhaven

DURATION 4 years full time

ATAR Not applicable. Graduate Entry

go.uow.edu.au/mbbs

MEDICINE

WHAT YOU STUDY

The Bachelor of Medicine Bachelor of Surgery is a four-year course, with each academic year being approximately 42 weeks in length. In the first year, you will participate in approximately 25 hours of structured and an additional 20–30 hours of self-directed teaching and learning experiences each week.

As the course progresses and the clinical exposure increases, by the fourth phase the face-to-face requirement resembles full-time clinical work.

Participation in scheduled small group learning activities, clinical skills laboratories, anatomy laboratories and clinical placements are an integral part of your learning. There is a high level of online structured learning activities. This complements the learning experiences in the clinical environment that help you learn by doing.

YOUR DEGREE

The School of Medicine curriculum reflects the latest approach to medical education, and incorporates extensive use of existing and emerging medical education and information technologies. Local medical and other health practitioners are extensively involved in the program. The curriculum is delivered using a combination of teaching approaches:

- Clinical teaching in hospitals, clinics, and general practice surgeries
- Seminars, tutorials and small group work
- Participation in scheduled small group learning activities, clinical skills laboratories, anatomy laboratories and clinical placements
- Online and other forms of self-directed learning

In addition, the curriculum includes activities directed at the personal and professional development of Medicine students.

planning on applying for the MBbs in the future?

When selecting subjects for the HSC, you should undertake subjects which will help to develop important communication and reasoning skills. You may also wish to consider chemistry, physics or biology to help you achieve a reasonable level of scientific understanding which will be required for the GAMSAT. It is also important for you to undertake HSC or secondary studies subjects which meet the requirements for entry into your desired undergraduate degree.

NEW SCIENCES TEACHING FACILITY (STF) – BUILDING 43

The newly built 7,000m² STF building will accommodate undergraduate laboratories for Environmental Sciences on the ground floor, Biological Sciences on the first floor and Chemistry on the second floor. There will also be a Technology Room, Higher Degree Research areas and an informal learning area on the ground floor. The building includes new scientific laboratory equipment and instrumentation, and new mobile touchscreen computers.

SCHOLARSHIPS

There are a range of undergraduate scholarships offered to all students, to assist you with covering the cost of your studies. For a list of all scholarships, criteria and how to apply, visit: uow.edu.au/about/scholarships

clubs and societies

Get involved in campus life. There are a range of clubs and societies listed below within the Faculty of Science, Medicine and Health that offer you the opportunity to meet and network with other students, gain additional skills and engage in a range of activities both on and off campus. You can also start your own club with like-minded students.

- Biomed: connecting members to the large and diverse biological sciences community.
- ChemSoc: aiming to strengthen collaboration between research groups, students and staff.
- Groundswell: providing students with the opportunity for technical skill development, professional and social networking and more.

For more information or to join or create your own club, visit: clubs.uow.edu.au

planning on applying for the MBbs in the future?

When selecting subjects for the Higher School Certificate (HSC) or tertiary studies you should undertake subjects which will help to develop important communication and reasoning skills. You may also wish to consider chemistry, physics or biology to help you achieve a reasonable level of scientific understanding which will be required for the GAMSAT. It is also important for you to undertake HSC or secondary studies subjects which meet the requirements for entry into your desired undergraduate degree.

planning on applying for the MBbs in the future?

When selecting subjects for the Higher School Certificate (HSC) or tertiary studies you should undertake subjects which will help to develop important communication and reasoning skills. You may also wish to consider chemistry, physics or biology to help you achieve a reasonable level of scientific understanding which will be required for the GAMSAT. It is also important for you to undertake HSC or secondary studies subjects which meet the requirements for entry into your desired undergraduate degree.

OTHER DEGREES YOU MAY LIKE

This booklet is just a sample of the degrees on offer at UOW. Here are a few more from different study areas that may interest you.

Bachelor of Medical and Health Sciences

Medical and health scientists are involved in the development of therapies, treatments and health services in both private industry and hospital settings. In your first year you will cover Human Biology, Physiology, Biochemistry and Anatomy. Then you have the chance to customise your program of study with electives subjects that include specialised areas within chemistry, anatomy, bioethics and public health.

go.uow.edu.au/bmhs

Bachelor of Psychology (Honours)

Studying Psychology will give you an understanding of who we are and how we think, feel and act from a neuroscientific perspective. You will gain important knowledge about the physiological, sensory and cognitive processes that underlie it, and how the profession applies this knowledge to practical problems.

go.uow.edu.au/bpsych

Bachelor of Computer Science

Computer scientists focus on designing methods, tools and working programs for computer applications. The degree includes a core of programming and mathematics subjects as well as electives including databases, programming languages, artificial intelligence, computer security and computer graphics. In your final year you will develop your own application as part of a student team project, developing solutions to real-world problems.

go.uow.edu.au/bcomputer
LEARN MORE

SEE US FOR YOURSELF

This book is just a part of who we are and what we do. Come and meet us face to face, and we’ll show you why UOW is the place for you.

2015 UOW OPEN DAY Saturday 15 August
FREE CAMPUS TOURS Every Friday, 10am and 3pm

GET IN BRIGHT AND EARLY

Would you like to secure your place at UOW before you sit your HSC exams? Our Early Admission program can help you get there.

uow.edu.au/future/early-admission

SCIENCE, MEDICINE AND HEALTH

smah-admissions@uow.edu.au
uow.edu.au/study/science
smah.uow.edu.au

GENERAL ENQUIRIES

uow.edu.au/future
Within Australia: 1300 367 869
International: +61 2 4221 3218
futurestudents@uow.edu.au
facebook.com/uowfuture

UNIVERSITY OF WOLLONGONG
AUSTRALIA

PERSONALISED EXPERIENCES : WORLD-CLASS RESULTS

The University of Wollongong attempts to ensure the information contained in this publication is correct at the time of production (April 2015); however, sections may be amended without notice by the University in response to changing circumstances or for any other reason. Check with the University at the time of enquiry for any updated information. UNIVERSITY OF WOLLONGONG CRICOS: 00110E