YOUR NEW
STUDENT HUB AND PLAZA

OPENING SEMESTER 1, 2016 | flinders.edu.au/studenthub
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University should be about much more than classes, coursework and exams. You deserve the chance to extend your learning, and develop new networks, skills and expertise that will enable you to succeed in your future career.

At Flinders we are enhancing our courses to offer an educational experience that you will enjoy and that will be valued by future employers.

Our new Student Plaza and Hub will open in Semester One in 2016 with state-of-the-art facilities, creating an inspirational space for you to learn, study and socialise. The new development incorporates individual and group study areas, cafes and student kitchens, outdoor performance areas, all embedded with the latest in technology and internet access. Simply put, we are investing in creating the best possible facilities for you at Flinders.

We encourage you to compare the quality of our courses with those offered at other universities and hope that you will recognise the value of undertaking a Flinders University degree.

Professor Colin Stirling
Vice-Chancellor and President
**HANDS-ON**
Flinders researchers teach cutting-edge theories and practices, maintaining close links with local employers to create learning experiences to equip you for your career.

**EXCELLENCE IN RESEARCH**
You will benefit from the expertise of our researchers in fields such as biotechnology, groundwater hydrology, forensic and environmental science, and the invention of medical devices and technologies. We are committed to collaboration, passion and excellence in research, with 74% of our science and engineering disciplines meeting or exceeding world standards according to the most recent Australian Research Council’s Excellence in Research for Australia (ERA) evaluation.

**INDUSTRY LINKS**
Our degrees are shaped by industry to equip you with the skills you need to be competitive in the employment market – or as a foundation for more specialised postgraduate qualifications.

**FLEXIBILITY**
Our degrees can be tailored to suit those who already know what they want to specialise in and those who are not yet sure. The wide variety of specialisations allows you to narrow down your interests to establish the field best suited to you.

**WHY CHOOSE ENVIRONMENT AT FLINDERS**

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WHY WE’RE
SOUTH AUSTRALIA’S
FASTEST GROWING UNIVERSITY
Flinders has a world-class reputation for research and innovation, informing the professions that shape our society and developing technologies that are transforming people’s lives. Flinders is ranked among the top 2% of research universities in the world, and the discoveries of our researchers drive what you learn in the classroom.

The $63 million Plaza Redevelopment and Student Hub will provide an extraordinary new facility for students commencing in 2016, with a 2,000 seat outdoor amphitheatre, new social learning spaces where students can gather to study and a range of services tailored to deliver an all-round campus experience for students.

Whether you are relaxing in the leafy surrounds of the Bedford Park campus, immersed in the CBD at the Victoria Square campus or contemplating the future of Australia’s economy at our brand new Tonsley building, Flinders prides itself on offering students a great on-campus experience.

Flinders has close connections with industry, reflected in the relevance of our curriculum and the connections that a Flinders University experience offers students. Every year some Flinders students choose to do an internship at the US congress, study part of their degree in London or undertake work integrated learning opportunities with employers in Adelaide. Flinders courses are renowned for being rigorous and also work-oriented, providing graduates with a clear set of knowledge and skills that they will be able to use throughout their career.

Flinders was ranked among the world’s top 400 universities by the 2014 Academic Ranking of World Universities and in the top 100 universities under the age of 50 by the Times Higher Education rankings. Flinders has earned a reputation for delivering high-impact research and courses that students love.

Flinders offers an excellent staff-student ratio – rated as 5 stars by the 2015 Good Universities Guide, reflecting the University’s commitment to teaching. Flinders students frequently comment that they value access to lecturers and the learning environment created on campus. Our academics and teachers are connected to the current issues of the day, guiding you to question, challenge and think beyond the limits of convention, and equipping you with important skills for a successful career.

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ENVIRONMENT

UNDERSTANDING OUR ENVIRONMENT, AND THE SCIENTIFIC AND SOCIAL FACTORS THAT RELATE TO IT, IS ESSENTIAL FOR OUR FUTURE.
FLINDERS IS COMMITTED TO ENVIRONMENTAL EXCELLENCE, AND HOUSES AN INTERDISCIPLINARY COMMUNITY DEDICATED TO THIS PURSUIT, DELIVERING CUTTING-EDGE RESEARCH IN ENVIRONMENTAL, WATER, COASTAL AND SPATIAL SCIENCES.

ENVIRONMENT AT FLINDERS

The undergraduate courses and programs in the School of the Environment provide you with knowledge and expertise to become a professional with the capacity to contribute to the fields of environmental research, education and policy, to commerce and industry, and to the wider community. The breadth of the discipline, together with the practical skills embedded in the courses, provides a basis for graduates to confidently apply their skills to address current and emerging environmental issues.

Flinders offers environmental undergraduate courses in the following areas:

• aquaculture
• biodiversity and conservation
• clean technology
• design and technology innovation
• environment
• environmental health
• geographical information systems
• marine biology
• marine biology/aquaculture

The Flinders School of Environment collaborates across the University in its teaching and research, and strongly engages with national and international partners to transfer research solutions to communities of all environmental sectors.

FLINDERS.EDU.AU/ENVIRONMENT
BACHELOR OF ENVIRONMENT

STUDY PROGRAM
Throughout the course, you will study core topics that are common to all streams, and then select further topics from those that interest you and/or that contribute to your major. A variety of option topics and elective topics are also available in each year, some of which are available through cross-institutional study with Charles Darwin University.

FIRST YEAR
First year introduces you to environmental investigation and geographical information systems via core topics. You will select areas relating to business, earth and environmental sciences, marine sciences, and water resources and society.

SECOND YEAR
Second year gives you the opportunity to develop skills required for the environmental professions. Electives can be chosen from areas such as sustainable development, human-environment relations, hydrology, coastal processes and environmental change, and human health.

THIRD YEAR
You will undertake an environmental research project and choose topics from areas such as environment and development in Asia and emerging issues in Australian environmental management. You may also undertake an industry placement or project as part of your studies.

HONOURS

Admission to an honours program after third year may be offered to those who meet certain academic criteria and is subject to the school/department being able to provide appropriate resources and staff to supervise your program of study.

PRACTICAL EXPERIENCE
You will have the opportunity to undertake fieldwork as well as projects with state-of-the-art technologies such as computer simulation and spatial information systems.

CAREER OPPORTUNITIES
Some potential occupations for graduates include environment protection officer, water policy officer, environmental education officer, catchment care officer, hydrologist and environmental consultant.

Potential employers include Department of the Environment; Parsons Brinckerhoff; SA Water; Rio Tinto; and local government agencies such as the City of Holdfast Bay; and Department of Environment, Water and Natural Resources.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FURTHER STUDY
Further study options include Graduate Diploma in Environmental Health Practice, Graduate Certificate and Graduate Diploma in Environmental Management, and Master of Environmental Management, Science (Groundwater Hydrology), Science (Water Resource Management), or Geographic Information Systems.

FIND OUT MORE
More course information can be found by navigating to the Bachelor of Environment on our undergraduate courses page via: flinders.edu.au/courses/undergrad
THIS COURSE...

IS A COMPREHENSIVE DEGREE IN THE ENVIRONMENT WITH STREAMS AVAILABLE IN ENVIRONMENTAL MANAGEMENT OR ENVIRONMENTAL SCIENCE

OFFERS PRACTICAL EXPERIENCES THAT ARE RELEVANT TO A WIDE RANGE OF CAREERS IN THE ENVIRONMENT FIELD

HELPS YOU DEVELOP YOUR AWARENESS OF THE GLOBAL NATURE OF ENVIRONMENTAL ISSUES AND THE INTERNATIONAL POLICY AND MANAGEMENT CONTEXTS IN WHICH THEY ARE UNDERSTOOD
AQUACULTURE AT FLINDERS

The Bachelor of Science (Aquaculture) provides a combination of skills needed to be part of the growing aquaculture industry. This is the only university course of its kind in South Australia and has the support of the fishing industry through the South Australian Fishing Industry Council.

This course combines a strong background in the natural sciences with an understanding of health and safety issues, practical and management issues, and business and communications skills.

Our graduates may find work establishing and maintaining aquaculture operations, researching and developing new aquaculture technologies and methods, and assisting with government planning and decision-making.

Around half of all the fish and shellfish consumed globally is provided by the aquaculture industry, and is expected to grow in the future. Consumers demand more seafood than wild stocks can produce, and aquaculture provides a means by which this demand can be met sustainably.

Aquaculture involves the production of finfish, including salmon, barramundi, yellowtail kingfish and tuna; molluscs, including oysters, abalone, mussels and scallops; crustaceans such as prawn and freshwater and marine crayfish; and even aquatic plants such as seaweed.

PRACTICAL EXPERIENCE

There is a strong focus on developing practical skills. As an aquaculture student at Flinders you will have access to:

• sophisticated aquaculture facilities on campus in Adelaide, including six specially designed indoor laboratories that enable the culture of algae, zooplankton, fish, crustaceans and molluscs at controlled temperature and light levels
• more than 100 aquaria
• eighteen 10,000-litre outdoor tanks

You will also complete an industry placement, giving you relevant experience in the aquaculture industry. Workplace education is provided in collaboration with aquaculture operators in various locations in South Australia, interstate and overseas. This combination of approaches will provide you with a balance of scientific and real-world learning outcomes.

STUDY PROGRAM

FIRST YEAR

In first year you will take introductory topics that involve aquaculture practice and theory as well as biology, while gaining grounding in supporting areas such as chemistry. If you do not have a background in chemistry, you can choose introductory chemistry topics.

SECOND YEAR

In second year, more specialised areas are introduced, including animal diversity, genetics, evolution, biodiversity, ecology, aquaculture nutrition and water quality, aquaculture systems and technology, and experimental design and statistics. You will also complete an industry placement giving you relevant work experience.

THIRD YEAR

In third year, you will expand your knowledge of specific fields of aquaculture including disease and immunology, aquaculture reproduction, marine and freshwater biology, physiology of animals and plants, plant and algal diversity, aquaculture health and product quality, and business planning for new ventures.

In second and third years you can also select elective topics of interest from other disciplines including biology, marine mammals, environmental science, coasts and oceans and conservation.

HONOURS

The honours year provides you with additional skills and knowledge to pursue further scientific research or a career in a science-related field. You will undertake specialised courses and an individually-supervised research project in an area that interests you.

MARINE BIOLOGY / AQUACULTURE DOUBLE SPECIALISATION

You can also apply for a double specialisation in marine biology and aquaculture (see separate entry).

COMBINED DEGREES

You can combine the Bachelor of Science (Aquaculture) with the Bachelor of Laws and Legal Practice or Bachelor of Laws and Legal Practice (Honours).

CAREER OPPORTUNITIES

Some potential occupations for graduates include aquaculture development officer, fish nutrition technical officer, fisheries and ecological research assistant, fisheries officer, predator prevention officer, and selective breeding program coordinator.

Potential employers include the Department of Primary Industries and Regions SA, Huon Aquaculture, Department of Agriculture, Australian Fisheries Management Authority, Clean Seas, and Petuna Seafood.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FURTHER STUDY

Further study options include Master of Science (research) and PhD (research).

FIND OUT MORE

More course information can be found by navigating to the Bachelor of Science (Aquaculture) and Bachelor of Science (Honours) (Aquaculture) on our undergraduate courses page via: flinders.edu.au/courses/undergrad
This course combines natural sciences with studies in environment and business for aquaculture ventures, provides practical experience using specially designed aquaculture facilities, and has the support of industry through the SA Fishing Industry Council.

Electives at Cleanseas Hatchery and the Marine Science Centre in Port Lincoln offered Scott the opportunity to undertake experiments and studies. “You learn so much when you apply your knowledge in a hands-on and practical way.” Scott found great assistance and support from the teaching staff. “The lecturers and tutors know their stuff and are up to date with the technology and the journals. And they’re easy to talk to.”

Scott Forsythe
Flinders Aquaculture and Marine Biology Graduate
Flinders works closely with the Department of Environment, Water and Natural Resources, the Plant Biodiversity Centre, the SA Museum, the SA Research and Development Institute (SARDI) and the Nature Foundation of SA on conservation projects and biodiversity surveys. The study of biodiversity is essentially the study of all living organisms in the environment, the range of different species that are found in each place, and the methods that we can use to manage ecosystems to conserve as many of those species as possible. It is a broad field, and the biodiversity and conservation programs at Flinders offer the opportunity to combine skills in conservation biology with complementary skills in areas such as computing, chemistry, earth sciences and geographic analysis.

STUDY PROGRAM
This course is built around knowledge of the core sciences that are crucial to understanding the world’s biological diversity.

FIRST YEAR
In first year you will take topics in areas such as biodiversity and conservation, evolution and the molecular basis of life, and chemistry, plus be given the opportunity to choose elective topics. Students who do not have a background in chemistry but who wish to study chemistry are able to choose introductory chemistry topics.

SECOND YEAR
In second year you will take topics in areas such as genetics, evolution and biodiversity, ecology, animal diversity, geographical information systems and experimental design and statistics as well as elective topics.

THIRD YEAR
In third year you will take topics in areas such as conservation biology, restoration ecology, plant and algal diversity, marine and freshwater biology, integrative physiology of animals and plants, human impacts and biodiversity and conservation, and ecological genetics as well as elective topics.

HONOURS
The honours year provides you with additional hands-on research skills and knowledge to pursue further scientific research or a career in a science-related field. You will undertake specialised topics and an individually supervised research project in an area that interests you.

PRACTICAL EXPERIENCE
Fieldwork and practical training is a key feature of the degrees, along with projects involving teamwork and the development of communication and professional skills.

COMBINED DEGREES
You can combine the Bachelor of Science (Biodiversity and Conservation) with the Bachelor of Laws and Legal Practice or Bachelor of Laws and Legal Practice (Honours).

CAREER OPPORTUNITIES
Some potential occupations for graduates include native biodiversity officer, conservation programs assistant, vegetation and biodiversity offsets officer, healthy habitat field officer, park ranger, and graduate terrestrial ecologist. Potential employers include Department of Environment, Water and Natural Resources; Trees For Life; Biosis; Australian Wildlife Conservancy; and SA Water.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FURTHER STUDY
Further study options include Master of Science (research) and PhD (research).
PROVIDES YOU WITH KNOWLEDGE AND SKILLS TO MAKE A DIFFERENCE TO THE LOCAL AND GLOBAL ENVIRONMENT

IS UNIQUE IN SOUTH AUSTRALIA FOR ITS FOCUS ON BROAD ISSUES OF BIOLOGICAL DIVERSITY

WILL TEACH YOU TO ANALYSE SCIENTIFIC INFORMATION AND CRITICALLY ASSESS KEY ENVIRONMENTAL ISSUES

INVOLVES A SIGNIFICANT FOCUS ON WORK IN THE FIELD AND PRACTICAL TRAINING

More course information can be found by navigating to the Bachelor of Science (Biodiversity and Conservation) and Bachelor of Science (Honours) (Biodiversity and Conservation) on our undergraduate courses page via:
FLINDERS.EDU.AU/COURSES/UNDERGRAD
BACHELOR OF SCIENCE
CLEAN TECHNOLOGY

3 PT

PREREQUISITES
Yes*

ASSUMED KNOWLEDGE
None

SATAC CODE
224571

2015 ATAR
85.20

GUARANTEED ENTRY ATAR
70.00

TAFELINK
Cert IV or above

BONUS POINTS
UEQ, LL.M

CLEAN TECHNOLOGY AT FLINDERS

The Bachelor of Science (Clean Technology) prepares you to play a key role in the reshaping of industries to make them both financially and environmentally sustainable. There are three streams available in this course:

- biological solutions
- environmental solutions
- technology solutions

The clean technology specialisation addresses the emerging trend in industry to develop and use practices that are “clean” and sustainable and provides you with the opportunity to focus on particular areas of interest. The degrees build on Flinders University’s existing research focus on clean technology.

Flinders has a number of research projects addressing the challenges of creating clean technologies and our work in this area receives funding from the CSIRO and the National Centre of Excellence in Desalination. The Flinders Centre of Nanoscale Science and Technology is working on three areas of focus: solar energy, water treatment/desalination and frontier chemistry. Some of the most exciting solar-energy developments are in building-integrated photovoltaics, in which the solar cell is designed to be a part of a building’s structure rather than a large solar unit sitting on the roof.

In desalination the centre’s researchers are synthesising novel membrane coatings which reduce fouling of the membranes by marine organisms, thus creating more fresh water for the same energy cost. Frontier chemistry relies on the latest cutting-edge approaches to lower chemical use and create environmentally friendly solutions to industrial needs.

Clean technology activities are those that in some way use or produce renewable materials and energy sources, reduce use of natural resources (or improve efficiency), and limit or stop pollution and toxic waste while still maintaining economic viability. The Commonwealth Government has made an environmentally sustainable Australia a national priority and clean technology will play an important role in Australia’s future.

STUDY PROGRAM

You will be provided with an awareness of current issues and the various technological approaches to solving these issues, including new technologies that will be used in future practices.

You will have the option of choosing one of three streams which include technology solutions, environmental solutions or biological solutions, all of which will provide you with a strong understanding of the underlying science required.

FIRST YEAR

First year gives you a grounding in science and allows for some choice of topics.

SECOND AND THIRD YEARS

In second and third years, you will focus your studies on one of three streams:

- In the technology solutions stream you will complete studies such as chemistry, clean technology, spectroscopy and data analysis, polymer science, our environment and our health and global climate change. You will look into examples of new sensors, solar cells, biodegradable materials, frontier chemical solutions and materials, coatings for improved and sustainable technologies, water treatment and membranes.
- In the environmental solutions stream you will focus on areas such as groundwater, field investigations, clean technology, environmental impact assessment, global climate change, and environmental decision-making tools. These studies examine environmental monitoring, groundwater and environmental health.
- In the biological solutions stream you will complete studies in animal diversity, ecology, clean technology, microbiology, conservation biology and restoration. Studies focus on the issues of remediation, biorestitution and bioenergy including microbial fuel cells, biogas production, biofuels and ocean and fresh water ecology.

HONOURS

The honours year provides you with additional skills and knowledge to pursue further scientific research or a career in a science-related field. You will undertake specialised courses and an individually supervised research project in an area that interests you.

CAREER OPPORTUNITIES

Some potential occupations for graduates include analyst — renewable energy, biofuel technology project officer, carbon emissions auditor, clean energy laboratory technician, climate change policy officer, and recycled water officer.

Potential employers include Clean Energy Regulator, CSIRO, Wind Prospect, Department of Industry, Energy Developments, Centre for Sustainable Energy Systems and Mining sectors.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FURTHER STUDY

Further study options include Graduate Diploma in Clean Technology, Master of Science (research) and PhD (research).

FIND OUT MORE

More course information can be found by navigating to the Bachelor of Science (Clean Technology) and Bachelor of Science (Honours) (Clean Technology) on our undergraduate courses page via: flinders.edu.au/courses/undergrad

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BACHELOR OF SCIENCE
CLEAN TECHNOLOGY (HONOURS)

4 PT

PREREQUISITES
Yes*

ASSUMED KNOWLEDGE
None

SATAC CODE
224581

2015 ATAR
94.30

GUARANTEED ENTRY ATAR
80.00

TAFELINK
Diploma or above

BONUS POINTS
UEQ, LL.M

*SACE stage 2 mathematical studies, mathematical methods or equivalent.

This specialisation can also be taken in the Bachelor of Science (Honours) — Enhanced Program for High Achievers. See separate entry in Science & Mathematics brochure for more details.

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NUMEROUS FULL-TIME

PT PART-TIME AVAILABLE
LOOKS AT CURRENT REAL-WORLD INDUSTRIAL PRACTICES, ISSUES AND POTENTIAL IMPROVEMENTS AND SOLUTIONS
PREPARES YOU TO INFLUENCE SCIENTIFIC, INDUSTRIAL AND NON-SCIENTIFIC AUDIENCES
PROVIDES A SOLID UNDERSTANDING OF THE TECHNOLOGY AND POLICY ASPECTS AFFECTING THE CLEAN TECHNOLOGY SECTOR
RESPONDS TO THE AUSTRALIAN GOVERNMENT’S NATIONAL PRIORITY OF AN ENVIRONMENTALLY SUSTAINABLE AUSTRALIA
With a focus on sustainability, clean technology provides an understanding of building a cleaner, safer planet. The program is accessible to all students interested in the sciences.

Amanda Ellis firmly believes that the clean technology degree at Flinders is a degree for the future. “There’s no other Bachelor of Science undergraduate course in the world in clean technology. Clean technologies are going to underpin industry in the future. We need to train well-motivated people into management and research-active positions for this purpose.”

Clean technology draws on international expertise, accessing the likes of Flinders’ Professor Colin Raston, the South Australia Premier’s Professorial Research Fellow in Clean Technology, along with world leaders in waste-water management, desalination, solar energy, biofuels, environmental management, ocean and terrestrial ecology.

The degree offers additional insight into the subject through industry-relevant projects and site visits, something that will increase as the clean technology link with industry at Tonsley becomes established.
FLINDERS AT TONSLEY

FLINDERS AT TONSLEY IS THE HEART OF SOUTH AUSTRALIA’S NEW INDUSTRIAL FUTURE
TAKE INNOVATIVE, HIGH-TECH PRODUCTS AND PROCESSES FROM CONCEPT TO REALITY WITH A BACHELOR OF DESIGN AND TECHNOLOGY INNOVATION.

The collaboration, innovation and entrepreneurship at the heart of Tonsley are embodied in the University’s Bachelor of Design and Technology Innovation. It takes more than just a great idea or invention to change the world. To put new technologies in the hands of the people who need them, you must be able to take technology concepts and make them a reality. The Bachelor of Design and Technology Innovation offers a holistic approach to designing, developing and commercialising advanced technology solutions.

The course is designed for people who possess or who would like to develop skills in creativity and problem solving, and who are interested in technology, science or engineering. If you are interested in how things work, and have good 2D visualisation, 3D modelling/prototyping and verbal communication skills, the bachelor of Design and Technology Innovation provides a great opportunity to work with people and create new things.

More information on the Bachelor of Design and Technology Innovation, including admissions details, can be found on page 18.

Pictured left: Tonsley building. Pictured below: Innovative working space at Tonsley.
DESIGN AND TECHNOLOGY INNOVATION AT FLINDERS

The Bachelor of Design and Technology Innovation prepares you to take innovative, high-tech products from concept to reality. You will be equipped with an understanding of design processes and innovation management, supported by a strong background in science or engineering. The course enables you to contribute to design, innovation and technology commercialisation in an organisation, to carry out management tasks in a science or engineering-based enterprise, and to understand a company’s strategic development of competitive products and services.

The course integrates theoretical studies in design, engineering, science, technology, innovation management and business methods with practical projects with the University’s industry partners – allowing you to apply the knowledge you acquire throughout the course. The degree provides opportunities to design, develop and commercialise advanced technology products or services.

Design and technology innovation is concerned with problem solving and meeting user needs through design. It aims to solve problems using engineering, science, technology, marketing and innovation, and specifically focuses on aspects of design, innovation and technology:

- The design component involves design theory, methods, processes and creativity; human factors, ergonomics and user centred design; design for manufacturing; and design communication, documentation and simulation.
- The innovation component involves entrepreneurship and small business, innovation management, business planning and feasibility, strategic marketing, and consumer behaviour.
- The technology component involves science, engineering, mathematics, and data analysis.

This course brings these three areas together to prepare you with the knowledge and skills you need to change the world through advanced technology and manufacturing.

STUDY PROGRAM

FIRST YEAR

First year provides you with a base from which to develop your knowledge and skills with topics including professional skills, engineering design and mathematics. You will then select topics in science, engineering or business to attach your design skills to a particular field.

SECOND AND THIRD YEARS

Second and third years enable you to specialise further by taking topics in innovation management, design for manufacture, product development and commercial viability assessment, and innovation in manufacturing devices. There is the opportunity to select from other areas including strategic marketing, entrepreneurship, consumer behaviour, and business planning.

In the third year you will undertake a capstone topic, design studio, which is an integrated high-technology design consulting project with a company, involving the design of revolutionary technology solutions. Alternatively, you can undertake a 12-week practical work experience placement in industry in Australia or internationally including in North America, Europe or Asia.

PRACTICAL EXPERIENCE

You will be able to take advantage of Flinders University's new technology precinct at Tonsley, where collaboration and entrepreneurship are at the heart of the University’s activities. This will give you hands-on exposure to the cutting-edge equipment and facilities that are useful in product design and development.

The course lets you participate in a 12-week industry work experience placement or an integrated high-technology design consulting project to put what you learn into practice.

COMBINED DEGREES

You can combine the Bachelor of Design and Technology Innovation with any other bachelor degree in the Faculty of Science and Engineering, subject to meeting entry requirements.

CAREER OPPORTUNITIES

Graduates from the Bachelor of Design and Technology Innovation may be employed by a product/service based commercial organisation, a design consultancy or they may develop their own product/service based intellectual property and start their own business.

Some potential occupations for graduates include product designer, business development manager, commercialisation specialist, graduate consultant, innovation strategist, and technology transfer specialist. Potential employers include Electrolux, Hills Industries, Google, Defence Science and Technology Organisation, the Department of State Development, and self-employment.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FIND OUT MORE

More course information can be found by navigating to the Bachelor of Design and Technology Innovation on our undergraduate courses page via: flinders.edu.au/courses/undergrad
THIS COURSE...

PREPARES YOU TO TAKE INNOVATIVE, HIGH-TECH PRODUCTS AND PROCESSES FROM CONCEPT TO REALITY

PROVIDES AN UNDERSTANDING OF INDUSTRIAL DESIGN, PRODUCT DESIGN AND THE MANAGEMENT OF INNOVATION IN ONE DEGREE

PRODUCES GRADUATES WHO WILL POSSESS HIGHLY ATTRACTIVE, VITAL SKILLS IN THE RAPIDLY CHANGING ADVANCED MANUFACTURING SECTOR

LETS YOU PARTICIPATE IN A 12-WEEK INDUSTRY WORK EXPERIENCE PLACEMENT OR AN INTEGRATED HIGH-TECHNOLOGY DESIGN CONSULTING PROJECT
BACHELOR OF HEALTH SCIENCES/
GRADUATE DIPLOMA
IN ENVIRONMENTAL
HEALTH PRACTICE

PREREQUISITES
None

ASSUMED KNOWLEDGE
None

SATAC CODE
214871

2015 ATAR
75.65

GUARANTEED ENTRY ATAR
90.00

TAFELINK
Diploma or above

BONUS POINTS
UEQ, LLM

ENVIRONMENTAL HEALTH
AT FLINDERS

The Bachelor of Health Sciences/Graduate Diploma in Environmental Health Practice prepares you for a career in environmental health and public health. This pathway provides you with a guaranteed place in the Graduate Diploma in Environmental Health Practice on successful completion of the Bachelor of Health Sciences.

The program aims to make you conversant in the many disciplines that make up environmental health, including public health, and aware of the importance of the integration of these disciplines to achieve effective solutions. You will also be encouraged to promote an understanding of environmental health and the role of the profession within the community.

The Graduate Diploma in Environmental Health Practice is designed to provide an entry-level qualification to practise as a gazetted environmental health officer (EHO). EHOs are responsible for assessing, correcting, controlling and preventing those factors in the environment that could potentially damage the health of present and future generations.

The Graduate Diploma in Environmental Health Practice is also available as a single postgraduate qualification. Applicants will be considered if they have completed any degree that has the equivalent of a minimum of one semester full-time study in basic sciences such as chemistry, physics, microbiology, physiology or life sciences.

PRACTICAL EXPERIENCE

You will have the opportunity to participate in two one-week intensive field trips, which include visits to a range of locations to investigate environmental health issues at food and body piercing premises, cooling towers and contaminated sites.

STUDY PROGRAM

BACHELOR OF HEALTH SCIENCES
In the Bachelor of Health Sciences you will undertake a core program in psychological, social and biophysical sciences with a health emphasis, as well as pursuing an approved major.

GRADUATE DIPLOMA IN
ENVIRONMENTAL HEALTH PRACTICE
In the Graduate Diploma in Environmental Health Practice you will undertake studies in the following areas: public health; sustainable development and health issues; environmental health concepts; food safety; legislation relevant to environmental health; environmental health policy, management and administration; human systems in environmental health; and microbiology and communicable disease.

The Graduate Diploma in Environmental Health Practice is also available as a single postgraduate qualification. Applicants will be considered if they have completed any degree that has the equivalent of a minimum of one semester full-time study in basic sciences such as chemistry, physics, microbiology, physiology or life sciences.

FURTHER STUDY

CAREER OPPORTUNITIES

Some potential occupations for graduates include environmental health officer, environmental health planning enforcement officer, environmental compliance officer, environmental surveillance officer, public health officer, and waste management project officer.

Potential employers include District Council of the Copper Coast, Environment Protection Authority, SA Health, City of Charles Sturt, SITA Environmental Solutions, and Eastern Health Authority.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FIND OUT MORE

More course information can be found by navigating to the Bachelor of Health Sciences/Graduate Diploma in Environmental Health Practice on our undergraduate courses page via: flinders.edu.au/courses/undergrad
GIVES YOU AN UNDERSTANDING OF THE EFFECTS OF ENVIRONMENTAL FACTORS ON THE HEALTH AND WELLBEING OF PRESENT AND FUTURE GENERATIONS

MAKES YOU ELIGIBLE FOR MEMBERSHIP OF ENVIRONMENTAL HEALTH AUSTRALIA UPON GRADUATION

HELPS YOU TO PROMOTE COMMUNITY UNDERSTANDING OF ENVIRONMENTAL HEALTH ISSUES

“This course...”

All the staff were very professional, and the lecturers were highly competent in facilitating our learning throughout the course. Theoretical models learnt during my studies at Flinders provided me with the confidence to conduct my activities, administering and enforcing a number of pieces of legislation as an environmental health officer.

Giuliano Marcon
ENVIRONMENTAL HEALTH OFFICER AT KNOX CITY COUNCIL (VICTORIA)
FLINDERS ENVIRONMENTAL HEALTH PRACTICE GRADUATE

“...”
BACHELOR OF APPLIED GEOGRAPHICAL INFORMATION SYSTEMS

PREREQUISITES None
ASSUMED KNOWLEDGE None
SATAC CODE 214591
2015 ATAR 72.90
GUARANTEED ENTRY ATAR 70.00
TAFELINK Cert IV or above
HONOURS AVAILABLE Yes
BONUS POINTS UEQ, LLM

STUDY PROGRAM
The program includes studies in areas such as data analysis, GIS modelling, computing, statistics, remote sensing, digital image analysis, and an industry placement, field camp and project work.
You will also take a full major sequence across the three years of the course in any area offered within a Bachelor of Arts (except computing studies).
Popular majors include biological sciences, geography, earth sciences, environmental studies, archaeology and criminal justice.
Students offered the opportunity to take an honours year extend their research skills by working on projects across the state, often in conjunction with agencies such as the Department of Environment, Water and Natural Resources, Natural Resource Management Boards, SAPOL and the Conservation Council.

PRACTICAL EXPERIENCE
The course has strong support from industry for its program of study and emphasis on developing practical skills that prepare graduates for a smooth transition into the workforce. Industry placements and applied project work will help you develop contacts and work skills.

TAKE SA DUAL OFFERS
Entry via a TAFE SA dual offer pathway is also available for the Bachelor of Applied Geographical Information Systems. Successful applicants will receive an offer to both TAFE SA and Flinders. Progression to Flinders requires successful completion of the TAFE SA qualification. For more information go to: flinders.edu.au/tafe

CAREER OPPORTUNITIES
Some potential occupations for graduates include graduate spatial information officer, land resource information officer, geospatial imagery intelligence analyst, graduate GIS analyst, GIS and knowledge management officer, and GIS data coordinator.
Potential employers include GHD, Mallee Catchment Management Authority, Reef Catchments, AECOM, City of Salisbury, and Treasury Wine Estates.
For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FURTHER STUDY
A Bachelor of Applied Geographical Information Systems (Honours) is available. Other further study options include Master of Science (research), PhD (research), Graduate Certificate and Graduate Diploma in Information Technology and Master of Information Technology.

FIND OUT MORE
More course information can be found by navigating to the Bachelor of Applied Geographical Information Systems on our undergraduate courses page via: flinders.edu.au/courses/undergrad
WAS ESTABLISHED WITH SPECIAL FUNDING FROM THE FEDERAL GOVERNMENT AND HAS THE WIDE SUPPORT OF INDUSTRY

INVOLVES THE USE OF COMPUTER TECHNOLOGY AND SPATIAL INFORMATION TO STUDY NATURAL PROCESSES AND THE INTERACTION OF HUMANS WITH THEIR ENVIRONMENT

MEETS INTERNATIONAL STANDARDS OF GEOSPATIAL SCIENCE

ALLOWS YOU TO COMBINE GIS SKILLS WITH A SPECIALISATION IN ONE OF A RANGE OF AREAS

The two biggest things I learned at Flinders – apart from all the technical knowledge – were learning how to apply better logic and how to argue with reason. I am taking that and using GIS to present the best information and building business cases to help the right decisions to be made for both the people and environment.

Simon Callaghan
GIS COORDINATOR AT MOUNT BARKER COUNCIL (SOUTH AUSTRALIA)
FLINDERS GEOGRAPHICAL INFORMATION SYSTEMS GRADUATE
Marine biology at Flinders

The Bachelor of Science (Marine Biology) will introduce you to all aspects of marine biology. The courses combine cutting-edge technical and theoretical knowledge with flexibility, allowing you to tailor your progress, skills and knowledge to suit your interests. Great emphasis is placed on teamwork, project design, sampling protocols, in-depth analysis, and written and oral communication skills including discussion of key marine and coastal related topics. These generic skills will prepare you for employment in a range of potential disciplines.

Flinders has the largest academic group of marine scientists in South Australia. They form a team of internationally eminent marine biologists and oceanographers undertaking world-class research on current issues in marine science. Marine biology lecturers at Flinders have strong links with the national and international community, industry and government departments. You will be introduced to a range of marine biology practitioners and taken on several field trips, including the facilities at SARDI Aquatic Sciences West Beach and the Lincoln Marine Science Centre in Port Lincoln.

Practical experience

You will spend substantial time conducting practical exercises on marine organisms, collecting real data from several marine environments and undertaking research projects onshore, in our aquarium facilities, or at sea. These specific skills will ensure that you have the relevant hands-on experience to make you competitive for jobs in marine biology.

Study program

First year includes general biology and chemistry, and specific marine science topics such as an introduction to marine biology and marine sciences, plus electives of your choice. Students who do not have a background in chemistry are able to choose introductory chemistry topics, making this specialisation available to those with no scientific background.

Second year

Second year introduces animal diversity, marine ecology, coasts and oceans, genetics, evolution and biodiversity in dedicated topics, as well as providing fundamental scientific research skills in experimentation and statistics.

You will also get hands-on experience in field trips to investigate various coastal ecosystems.

Third year

Third year examines marine and freshwater biology, marine mammals, birds and reptiles, fisheries biology, science and management, plant and algal diversity, conservation biology, and restoration ecology.

You will also carry out a research project in marine biology involving self-directed study in a specialisation of your choice.

Honours

The honours year provides you with additional skills and knowledge to pursue further scientific research or a career in a science-related field. You will undertake specialised courses and an individually supervised research project in an area that interests you.

Marine Biology / Aquaculture Double Specialisation

You can also apply for a double specialisation in marine biology and aquaculture (see separate entry).

Combined Degrees

You can combine the Bachelor of Science (Marine Biology) with the Bachelor of Laws and Legal Practice or Laws and Legal Practice (Honours).

Career Opportunities

Some potential occupations for graduates include marine biologist, marine and coastal community education officer, reef guide, oceans science project officer, marine policy officer, and marine parks scientist.

Potential employers include Australian Institute of Marine Science; GHD; Great Barrier Reef Marine Park Authority; Department of the Environment; Kangaroo Island Natural Resources Board; Department of Environment, Water and Natural Resources; and several universities.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

Further Study

Further study options include Master of Science (research) and PhD (research).

Find out More

More course information can be found by navigating to the Bachelor of Science (Marine Biology) and Bachelor of Science (Honours) (Marine Biology) on our undergraduate courses page via: flinders.edu.au/courses/undergrad
THIS COURSE...

- Combines cutting-edge technical and theoretical knowledge with flexibility, allowing you to tailor your progress, skills and knowledge to suit your interests.
- Provides opportunities to participate in exciting marine-based fieldwork, including field trips to the Lincoln Marine Science Centre.
- Has a strong focus on global environmental issues related to the oceans and marine life.
The Bachelor of Science (Marine Biology/Aquaculture) enables you to combine studies in aquacultural production technologies and business skills with scientific study of the diversity of life in the sea. This double specialisation will equip you to take up positions in either the research or applied science sectors.

You will gain a broad understanding of the biology of marine organisms, their relationships with the physico-chemical marine environment, and their potential responses to changes. The course also helps you to acquire extensive knowledge in marine biodiversity, ecology, genetics, conservation, fisheries and related areas. This course enables graduates to develop practical and theoretical skills for a career in the aquaculture industry and builds transferable skills in research, analysis and communication.

Honours provides you with additional skills and knowledge to pursue further scientific research or a career in a science-related field.

This double specialisation is not available in the Bachelor of Science (Honours) – Enhanced Program for High Achievers.

Marine biology is the study of the living world in the sea, from the simple molecules that support life to the complex interactions between individuals and populations of many species. Aquaculture is applied science at the most practical level, and is an industry that requires scientific and business skills.

STUDY PROGRAM

FIRST YEAR
First year provides you with an introduction to chemistry, marine biology and aquaculture.

SECOND YEAR
Second year introduces animal diversity, marine ecology, coasts and oceans, aquaculture nutrition and water quality, aquaculture systems and technology, genetics, evolution and biodiversity in dedicated topics. You will also get hands-on experience in field trips.

THIRD YEAR
Third year extends your learning in biology, plant and algal diversity, aquaculture reproduction, aquaculture health and product quality, aquaculture and fisheries as well as providing skills in entrepreneurship and small business. You will also carry out a research project in biology involving self-directed study in a specialisation of your choice.

HONOURS
The honours year provides you with additional skills and knowledge to pursue further scientific research or a career in a science-related field. You will undertake specialised courses and an individually supervised research project in an area that interests you.

CAREER OPPORTUNITIES
Some potential occupations for graduates include aquaculture development officer, marine biologist, fisheries and ecological research assistant, reef guide, predator prevention officer, and policy officer - invasive marine species program.

Potential employers include Department of Primary Industries and Regions SA, Australian Institute of Marine Science; Great Barrier Reef Marine Park Authority; Department of Agriculture; Petuna Seafood; and Department of Environment, Water and Natural Resources.

For more information on careers services and potential career opportunities go to: flinders.edu.au/careers

FURTHER STUDY
Further study options include Master of Science (research) and PhD (research).
THIS COURSE...

ENABLES YOU TO COMBINE STUDIES IN AQUACULTURAL PRODUCTION TECHNOLOGIES AND BUSINESS SKILLS WITH SCIENTIFIC STUDY OF THE DIVERSITY OF LIFE IN THE SEA

WILL PROVIDE YOU WITH INCREASED JOB OPPORTUNITIES AND EQUIP YOU TO TAKE UP POSITIONS IN EITHER THE RESEARCH OR APPLIED SCIENCE SECTORS

FIND OUT MORE

More course information can be found by navigating to the Bachelor of Science (Marine Biology/Aquaculture) and Bachelor of Science (Honours) (Marine Biology/Aquaculture) on our undergraduate courses page via: FLINDERS.EDU.AU/COURSES/UNDERGRAD
**ASSUMED KNOWLEDGE**
Some courses assume that you will have certain knowledge and skills from previous study (eg SACE).

**ATAR**
Australian Tertiary Admission Rank. The ATAR selection rank listed for each course is the minimum year 12 rank in 2015 which guaranteed selection for applicants competing in the year 12 sub-quota. The ATAR selection rank includes any university equity and subject bonus points that may have been applied.

**BACHELOR DEGREE**
Normally a first tertiary-level degree – also known as an undergraduate degree.

**COMBINED DEGREES**
Two courses studied at the same time for which you receive two parchments upon successful completion, eg laws and legal practice/commerce. Cross-credit reduces the total time you study.

**DOUBLE DEGREES**
Two courses studied at the same time for which you receive one parchment upon successful completion, eg education/arts.

**ELECTIVE/OPTION TOPICS**
Topics in a study area of your interest which can be chosen in addition to core topics.

**EXTERNAL STUDENT**
A person undertaking all of their study online on either a full-time or a part-time basis.

**GPA**
Grade point average. Your GPA is a measure of your academic achievement at university based on your results for each topic studied.

**HONOURS**
A degree involving both coursework and a research thesis generally undertaken after an undergraduate degree and before a postgraduate research degree. Honours usually adds one year to the duration of a regular undergraduate degree and is either applied for separately or as part of an undergraduate degree with honours included.

**IB**
International baccaulaureate. IB qualifications are recognised by Flinders for entry into undergraduate programs.

**LLM**
SA Language, Literacy and Mathematics Bonus Scheme. Students who have successfully completed a secondary school subject in specific language, English and mathematics categories will be eligible for between two and four bonus points under the scheme (excludes Bachelor of Clinical Sciences/Doctor of Medicine applicants).

**MODE**
Mode refers to how a course is delivered. Most Flinders courses are delivered internally – ie on-campus; however, some are available externally or as a combination of both.

**POSTGRADUATE COURSE**
A university course studied after completion of an undergraduate degree.

**PREREQUISITE**
Some courses require you to have completed specific subjects in your previous study (eg SACE).

**SACE**
South Australian Certificate of Education. The SACE is awarded to South Australian students who successfully complete year 12.

**SEMESTER**
The academic year is divided into two semesters – usually late-February to mid-June, and late-July to November. Some individual topics are also available to study over the summer break.

**STAT**
Special Tertiary Admissions Test. You can sit the STAT if entering Flinders via the Adult Entry Scheme. The test is designed to assess your ability to study at university.

**TOPIC**
A subject studied as part of a degree program. Core topics are compulsory subjects that form the basis of a study program.

**UEQ**
SA Universities Equity Scheme. Students from certain specified secondary schools, and students from other schools who are able to demonstrate their individual disadvantage, are eligible for five bonus points under the scheme.

**UNDERGRADUATE DEGREE**
A first tertiary-level degree – also known as a bachelor degree.

**UNIT**
Each topic is given a weighting in units. Flinders topics are weighted in multiples of 4.5 units. Full-time students normally complete 18 units each semester, or 36 units a year.
ENTRY OPTIONS

COMPETITIVE ATAR ENTRY
The majority of year 12 applicants enter university via the traditional competitive entry method, where offers are made to eligible applicants with the highest ATARs until all places in the course are filled. The 2015 ATAR cut-offs for each course entry listed are provided only as a guide for 2016 entry and may change with the 2016 intake.

GUARANTEED ENTRY ATAR
Achieve an ATAR equal to or above the published guaranteed entry ATAR and you will be guaranteed a place at Flinders. All you need to do is ensure you have listed Flinders courses first in your preferences and you will be offered a place in the highest Flinders course preference that you are eligible for in 2016. More information can be found at: flinders.edu.au/guaranteedatar

BONUS POINTS
Bonus points may contribute to your ATAR when applying for university. Two bonus schemes are available for South Australian year 12 students applying for entry to Flinders in 2016: the SA Universities Equity Scheme and the SA Language, Literacy and Mathematics Bonus Scheme. More information about your eligibility for bonus points is available at: flinders.edu.au/bonuspoints

TAFE LINK
Flinders offers guaranteed entry to selected courses for applicants who have completed a TAFE/VET certificate IV or higher level qualification, so long as course prerequisites are met. Importantly, your TAFE/VET qualification does not need to be related to your selected area of study at Flinders. More information is available at: flinders.edu.au/tafelink

FOUNDATION STUDIES
The Foundation Studies Program has been designed to introduce you to university study in a supportive learning environment. Open to people from all backgrounds, the Foundation Studies Program provides a pathway to gain entry to degrees at Flinders University. For more information go to: flinders.edu.au/foundation

ADULT ENTRY
The Adult Entry Scheme enables people aged 18 years and over to apply to study at Flinders via the Special Tertiary Admissions Test (STAT). Applications are made via SATAC. Find out more at: flinders.edu.au/adultentry

ENTRY PATHWAYS
At Flinders we recognise that every prospective student is an individual and that what works for one might not be right for another. That’s why we provide various entry pathways into Flinders University and your preferred course, including uniTEST, Flinderslink, and TAFE SA dual offers.

You are encouraged to explore your options and find the entry path that’s right for you at: flinders.edu.au/pathways

ENHANCE YOUR DEGREE

COMBINED DEGREES
A combined degree is a combination of two Flinders bachelor degrees. As a combined degree graduate you will gain two qualifications in just one to one-and-a-half years of extra study.

Our combined degree programs are designed to enhance your educational, academic and professional qualifications whilst minimising the cost and length of your studies. Flinders combined degrees allow you to undertake in-depth study in exciting combinations that aren’t usually available in single degrees. Many graduates believe that a combined degree gives them an advantage for employment.

More information on the combined degree options available for each course at Flinders can be found on the undergraduate course pages at: flinders.edu.au/courses/undergrad

HOW TO APPLY

Flinders offers two admissions cycles each year for undergraduate courses.

Semester 1 – February start. Applications open in August for commencement the following year.

Semester 2* – July start. Mid-year applications open in August for commencement in July the following year.

Applicants need to apply through the South Australian Tertiary Admissions Centre (SATAC): satac.edu.au

*Not all courses are offered for semester 2 entry.

SUBSCRIBE FOR A CHANCE TO WIN PRIZES

Flinders Explorer is a great way to find out everything you need to know about studying at Flinders University. Flinders Explorer is an e-newsletter, written for students by students.

Our current students will provide tips, tell you their stories and share advice. Basically they will tell you what to expect and help you to decide which course best suits you because they’ve been where you are now.

Along the way, we will provide you with information on our courses, entry pathways, scholarships and reminders of upcoming events and important application dates.

Subscription is free and gives you the chance to win cool prizes like an iPad, shopping vouchers and movie, concert and event tickets. Subscribe at: flinders.edu.au/explorer