Since opening our doors in 1890, we have focused on how we, as individuals and as a society, perceive, understand, and make decisions in the world.

We continue to train, inspire and encourage the people who will tackle some of the world’s most complex challenges – the people who will help create new industries, opportunities and breakthroughs.

A Science degree from the University of Tasmania gives you specific skills and a solid foundation in rational thinking.

You’ll acquire knowledge, attitudes and skills in a range of physical, computational, mathematical, biological and earth sciences.

Learning scientific methods and how to apply them also means that you gain employability skills to meet the needs of industry, business and government agencies.

A reputation for research

We have five specialist schools providing world-class teaching and research. Our researchers are committed to undertaking quality research and developing collaborative links with scientific and business communities.

This high-quality new thinking feeds into our teaching and will energise and enhance your student experience.

We help you become who you want to be

Inspiring and encouraging tomorrow’s generation of scientific and technological leaders and innovators.

* Times Higher Education World University Rankings, 2016. Available at: https://www.timeshighereducation.com/world-university-rankings

With programs embedded within local and national industries, and additional campuses in Sydney and China, our students gain practical learning and research opportunities recognised around the globe.

The University of Tasmania is ranked in the top 2% of universities in the world.*

In addition, in the last two years we have received more teaching awards than any other Australian university.^
They also let you choose specialist career of experiences and broad workplace skills. The most sought after degrees at university are those that provide an excellent foundation for many graduate positions or can provide the specialist knowledge to pursue focused careers in areas like astronomy, biology, geology, mathematics, zoology, spatial sciences and more. All these courses will encourage you to sink your teeth into study and research, get involved in class discussions and interact with academic staff.

Most jobs and careers and all sectors interact with academic staff. Most jobs and careers and all sectors get involved in class discussions and more. All these courses will encourage you to sink your teeth into study and research, get involved in class discussions and interact with academic staff.

Who studies Science?

Studying Science

Who studies Science?

People with a fascination for the world, life on it and our part in it. If you are driven to discover, if you have the will to meet a challenge or if you’re filled with a desire to create something new, Science can provide the way for you to realise your ambitions. A Science qualification can provide an excellent foundation for many graduate positions or can provide the specialist knowledge to pursue focused careers in areas like astronomy, biology, geology, mathematics, zoology, spatial sciences and more. All these courses will encourage you to sink your teeth into study and research, get involved in class discussions and interact with academic staff. As a result, a Science degree is one of the most sought after degrees at university and one of the most asked for by employers.

Career opportunities with a Science degree

A Science degree can provide a wide range of experiences and broad workplace skills. They also let you choose specialist career studies. A few possibilities include:

- Administrative and managerial roles
- Biochemist
- Botanist
- Climate scientist
- Eco-tourism operator
- Environmental consultant
- Financial analyst
- Food technologist
- Geologist
- Information technologist
- Marine scientist
- Mathematician
- Meteorologist
- Mining
- Natural resources manager
- Pathologist
- Physicist
- Plant scientist
- Researcher
- Science communicator/education officer
- Scientific officer
- Surveyor
- Zoologist

Professional recognition

Graduates of a Science degree can be eligible for membership of a number of professional organisations, depending on their specialist studies. To be eligible, you’ll need to successfully complete the sequence of units endorsed by that body. Specific details of possible membership are available online under individual majors and disciplines. The professional organisations include:

- Australian Computer Society
- AG Institute Australia
- Australian Institute of Biologists
- Australian Institute of Food Science and Technology
- Australian Institute of Medical Scientists
- Australian Institute of Mining and Metallurgy
- Australian Institute of Physics
- Australian Marine Sciences Association
- Australian Mathematical Society
- Australian Psychological Society
- Australian Science Teachers Association
- Australian Society for Biochemistry
- Australian Society for Medical Research
- Australian Society for Microbiology
- Australian Society for Operations Research
- Australian Society for Phycology and Aquatic Botany
- Australian Society of Plant Scientists
- Australian Systematic Botany Society
- Ecological Society of Australia
- Genetic Society of Australia
- Institute of Australian Geographers
- Institute of Electrical and Electronics Engineers
- Royal Australian Chemical Institute
- Royal Society of Tasmania
- Statistical Society of Australia Inc.
- Surveying and Spatial Sciences Institute

Your study opportunities

Disserting students have different goals. If you simply want to give yourself the best start for a better chance at a great career, a degree course is an excellent option. If you want to pursue a passion or want more specialist knowledge and expertise in a chosen field, a combined degree or a degree with honours can give you fascinating career opportunities. Many of our courses also let you add units from different study areas.

Degrees: Major and Minor (specialist) studies

A single degree usually takes three years to finish and requires the successful completion of 24 units. A Bachelor of Science student, for example, would select one major (eight units), one minor (four units), degree electives (four introductory units), student electives (six units) and breadth units (two units).

At our University you can further diversify and improve your career options with a double science major, or you can take one major (eight units) and one minor (four units), degree electives (four introductory units), student electives (six units) and breadth units (two units).

Depending on your chosen course, you may be able to combine learning on off-campus, or study part-time or online. Flexible study options can make it easy to fit study around your work and life commitments.

The University is also continuing to increase the number of units available that blend online theoretical content with on-campus practical sessions to offer you greater flexibility in your studies.

Combined degrees

Combined degrees are pretty much exactly how they sound. A combined degree merges the core requirements of two different degrees. This lets you graduate with the equivalent of two degrees faster than it would take to do two separate degrees.

Combined degrees can give you greater depth of knowledge in more than one area. This gives you more career options.

If you’re academically capable and want to challenge yourself, a combined degree is an ideal way to get the most from your time at university.

A Bachelor of Science degree can be combined with bachelor degrees in Arts, Business, Economics, Engineering, Information and Communication Technology, or Laws.

Honours

Honours can help you gain deeper knowledge in your specialist area. An additional Honours year can mean you start your career higher up the ladder and progress in your career faster.

It can also lead to postgraduate study and a career in scientific research or academia.

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Honours

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It can also lead to postgraduate study and a career in scientific research or academia.

Alternative entry pathway

If you don’t have the prerequisites for direct entry into a Science degree, an alternative entry pathway helps you get the qualifications you need to get into the course you want.

One choice is a Bachelor of General Studies – Foundation Year Pathway. This one year course combines University preparatory units with foundation units in your intended area of study. We offer foundation units in chemistry, life sciences, mathematics, physics and information technology. The program is designed for mature age students returning to study, VET graduates, or students with a low ATAR. Taking a foundation year in the science stream of the Bachelor of General Studies gives you the skills and knowledge you’ll need and guaranteed entry (with credit) into a Bachelor of Science.

Alternatively, the University Preparation Program (UPP) offers mature age students, or those who did not complete year 11 and 12, the skills critical for success at university across a broad range of subjects. An AQF-recognised Diploma, or an Advanced Diploma in a science-related discipline from an Australian TAFE or other Registered Training Organisation, is another option. It may also mean you’re eligible for advanced standing in a degree.

If you have already started a degree at our University, or at an Australian or overseas tertiary institution, you may be eligible for advanced standing in a similar degree.

Finally, a Science degree can provide a pathway to Bachelor of Medicine and Bachelor of Surgery or a Bachelor of Pharmacy. To be eligible to apply for a place in one of those degree courses, you’ll need to successfully complete a year of study in one of these courses:

- Bachelor of Science
- Bachelor of Applied Science (Environmental Science)
We want to help you get the most from your time while you’re here.

You’ll be taught by experts who are all active researchers as well as teachers. This means working with real-world examples and acquiring cutting-edge knowledge. These are people who are passionate about what they teach. They’ll encourage you to share questions and perspectives, inside lectures and outside the classroom.

Guest lecturers give you a chance to learn from working professionals from all areas of the Science community.

Our administration team are available to discuss unit choices, degree planning, credit and advanced standing. Dedicated Student Advisers are also available for advice, support and assistance with academic studies or things affecting your personal well-being or circumstances.

We also provide online tutorials to help with your research assignments and develop your skills faster.

A Science degree is typically a three year, full-time course. We offer part-time courses, face-to-face, online and distance study options. There is a range of units available over the summer, spring and winter breaks.

Several specialist labs operate on-campus. The Molecular Genetics Laboratory has contributed to a range of projects in conjunction with CRC Forestry, Tasmanian Aquaculture and Fisheries Institute, Australian Antarctic Division, Institute of Antarctic and Southern Ocean Studies, and CSIRO Marine and Atmospheric Research.

The Human Interface Technology Laboratory in Launceston is a revolutionary teaching and research facility. It houses virtual and mixed reality technologies with a focus on design, visualisation, simulation and games. It has been established to unlock the power of human intelligence, improve quality of life and link minds globally.

The 340-hectare University farm provides essential teaching and research links, especially within the discipline of Agricultural Science.

The University is also home to a number of world-class observatories and the most extensive network of radio telescopes owned and operated by any university in the world. Researchers use these in both national and international collaborations.

Access to specialist facilities

The learning experience goes beyond lectures and tutorials.

Your study experience will most likely be a combination of classroom, laboratory and in-the-field learning.

You’ll have 24/7 access to computer labs, plus access to the Central Science Laboratory. This laboratory hosts research-level analytical instruments and provides high level electronic and mechanical engineering workshop support. The staff here can provide advice, support, and teaching in atomic and molecular analysis and several different forms of microscopy.

Our international exchange program lets you take a semester of study at universities around the world, including partner institutions in Sweden, Germany, Canada, the Netherlands, the UK and the United States. The international exchange program is included as part of the Bachelor of Science (Bachelor of Science) program (detailed in Course Information section).

Study Abroad

Your study experience will most likely be a combination of classroom, laboratory and in-the-field learning.

You’ll have 24/7 access to computer labs, plus access to the Central Science Laboratory. This laboratory hosts research-level analytical instruments and provides high level electronic and mechanical engineering workshop support. The staff here can provide advice, support, and teaching in atomic and molecular analysis and several different forms of microscopy.

University of Tasmania: TOP 400 for Biological Sciences

Source: QS WU Rankings by Subject, 2016
Agricultural Science
If you wish to study Applied Science (Agriculture and Business) or Agricultural Science please refer to the Agriculture and Environmental Science Brochure.

Applied Science
Our range of Applied Science degrees aim to give you the specific skills, knowledge and awareness you’ll need for a career in your chosen field. These multi-disciplinary degrees combine fundamental sciences with a specific Science discipline.

Bachelor of Applied Science (Environmental Science)

<table>
<thead>
<tr>
<th>Areas of study</th>
<th>Duration</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic science</td>
<td>Three</td>
<td>Successful completion of TCE (Tasmanian Certificate of Education) including</td>
</tr>
<tr>
<td>Botany (wilderness and forest management)</td>
<td>years full-time</td>
<td>Chemistry and at least General Maths, or interstate equivalent, or General Entry Requirements*</td>
</tr>
<tr>
<td>Chemical monitoring</td>
<td>or equivalent part-time</td>
<td>Entry February, July</td>
</tr>
<tr>
<td>Earth sciences (geomorphology and catchment management)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ecology</td>
<td>Location</td>
<td>Launceston</td>
</tr>
<tr>
<td>Environmental management</td>
<td>Course code</td>
<td>73U</td>
</tr>
<tr>
<td>Geography and environmental studies</td>
<td>2016 Round 1</td>
<td>Clearly-in ATAR 65</td>
</tr>
<tr>
<td>Statistics</td>
<td>Entry</td>
<td>February and July</td>
</tr>
<tr>
<td>Water and waste water management</td>
<td>Location</td>
<td>Launceston</td>
</tr>
<tr>
<td></td>
<td>Course code</td>
<td>J3T</td>
</tr>
</tbody>
</table>

This degree combines the disciplines of biology, chemistry, ecology and geography complemented with studies in environmental policy and management. The program has a strong focus on aquatic science, chemical monitoring and environmental management.

Bachelor of Biotechnology

Biotechnology combines a range of scientific disciplines with advanced technology in order to naturally and ethically manipulate living organisms for the benefit of humanity and the planet we live on.

<table>
<thead>
<tr>
<th>Career Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brewer</td>
</tr>
<tr>
<td>Wine-maker</td>
</tr>
<tr>
<td>Cheese technologist</td>
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<tr>
<td>Food safety auditor</td>
</tr>
<tr>
<td>Government food safety advisor</td>
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<tr>
<td>Plant and/or animal breeding</td>
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<tr>
<td>Quarantine officer</td>
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<tr>
<td>Horticulture and forestry industry</td>
</tr>
<tr>
<td>Pharmaceutical, nutraceutical and cosmeceutical production</td>
</tr>
<tr>
<td>Teaching and/or research</td>
</tr>
<tr>
<td>Aquaculture, marine and freshwater industries</td>
</tr>
</tbody>
</table>

Career Opportunities
Biotechnology is a qualification that truly allows you to follow your passion with a prosperous career in almost any industry at any scale you desire. Careers include:

- Aquaculture, marine and freshwater technologies
- Recycling and waste management
- Process engineering
- Process control
- Environmental impact assessments
- Policy analysis and implementation
- Pollution monitoring
- Water and waste water management

Bachelor of Biotechnology

<table>
<thead>
<tr>
<th>Areas of Study</th>
<th>Duration</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biotechnology</td>
<td>Three</td>
<td>Successful completion of TCE (Tasmanian Certificate of Education) including</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>years</td>
<td>Chemistry and at least General Maths, or interstate equivalent, or General</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>full-time</td>
<td>Entry February and July</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>or equivalent part-time</td>
<td>Location Hobart</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>Course code</td>
<td>S3V</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>2016 Round 1</td>
<td>Clearly-in ATAR 65</td>
</tr>
</tbody>
</table>

This degree uses a translational science approach integrating the natural sciences with social sciences, management, policy and law. It allows you to specialise in Aquaculture, Marine Conservation or Fisheries Management.

Bianca Deans
Bacelor of Science with Honours

*General Entry Requirements are briefly outlined in the ‘How to apply’ section. Visit utas.edu.au/admissions for further details.

“I have really approachable staff who give you best practice guidelines then let you start using the equipment from day one, instead of handing samples over to a lab tech. It’s a very independent experience that gives you the tools to conduct your own work, from first year undergraduate to PhD. I find the diverse toolbox of science skills that I formed while studying a range of undergraduate topics is useful every day of my PhD. The breadth of subjects I got to cover has set me up to be excellent at what I do.”

Bianca Deans
Bachelor of Science with Honours
### Bachelor of Science

**Duration**
Three years full-time or equivalent part-time

**Prerequisites**
Successful completion of TCE (Tasmanian Certificate of Education) or interstate equivalent General Entry requirements. Biochemistry, Chemistry, Mathematics and Physics majors require subject prerequisites in those topics.

**Entry**
February and July

**Location**
Hobart, Launceston

**Course code**
730

**2016 Round 1 Clearly-in ATAR**
65

This course gives you a sound understanding of the fundamentals of science and scientific method, an appreciation of how individual disciplines fit together in an organisation and the specialist knowledge of a science discipline that you’ll need to create a rewarding career.

During the course of your studies, you will develop problem-solving and research expertise as well as keen written and interpersonal communication skills.

**Additional prerequisites**
While some majors require additional prerequisites, we recommend science subjects related to your choice of major such as physical sciences, biology, geography or computer science.

**Majors**
- Computer Science (Hobart and Launceston)
- General Mathematics (Hobart)
- Geographic Information Systems and Remote Sensing (Hobart)
- Geography & Environmental Studies (Hobart and Launceston)
- Geology (Hobart)
- Microbiology (Hobart)
- Physics (Hobart)
- Plant Science (Hobart)
- Psychology (Hobart and Launceston)
- Pure Mathematics (Hobart)
- Statistics and Applied Mathematics (Hobart)
- Statistics and Operations Research (Hobart)
- Tourism (Hobart) (2nd major only)
- Zoology (Hobart)

**Computer Science**
Computer Science encompasses a range of foundational technologies that support almost every modern day human endeavour. This major gives students experience with a wide range of computing techniques, and prepares them to develop technical solutions for different end users’ needs. Students will develop skills in programming, database design and deployment, networking, artificial intelligence, mobile applications, and web design, as well as gaining experience of interacting with real clients to produce quality software products.

**Geographic Information Systems and Remote Sensing**
This major covers Geographic Information Systems (GIS), Global Navigation Satellite Systems (GNSS) and remotely sensed data (e.g. from satellites and Unmanned Aircraft Systems) to answer real world, practical questions. These skills are highly relevant across a multitude of disciplines including geoscience, computing and information systems, biological sciences, agricultural science, marine science and Antarctic science.

**Aquatic Biology**
Aquatic Biology provides a general introduction to aquatic plants, microbes, and animals, and application of these concepts in environmental microbiology, aquatic animal health and marine ecosystem management and conservation.

**Biochemistry**
Biochemistry looks at life from inside out. You’ll explore how living organisms function from both a molecular and cellular perspective. The course provides an essential basis for detailed understanding of biology and medicine.

**Chemistry**
Chemistry is the study of chemical and physical properties of substances. The course provides training in analytical and industrial chemistry as well as areas of biological chemistry. It also provides a solid foundation for anyone needing chemistry to support specialist studies in other disciplines, such as biotechnology, biochemistry and microbiology.

**Geology**
Geology is the study of the Earth. You’ll examine tectonic processes leading to volcanic eruptions, earthquakes, and the generation of mineral, petroleum and water deposits in the Earth’s crust.

Areas of study can include Geophysics (the structure, composition and location of mineral, water, oil and gas deposits), Environmental Geology, Geochmistry, Petroleum Geology and Economic Geology.

**Mathematics**
There are five mathematics majors available as part of the Bachelor of Science:
- Applied Mathematics
- General Mathematics
- Pure Mathematics
- Statistics and Applied Mathematics
- Statistics and Operations Research

These majors are part of the Bachelor of Science. Apart from traditional roles in physical sciences, mathematics is now a key component in the analysis of financial markets, coding and cryptography, the design of computer networks and weather and climate modeling. Mathematics can be used to solve problems in fields that range from psychology and chemistry to engineering, biology, commerce and information technology.

**Microbiology**
Microbiology looks at how microorganisms work and their role in our world. From bacteria and viruses to fungi, single-celled animals and algae, microorganisms are fundamental to the basic nutrient and biogeochemical cycles that underpin life on Earth. Your study could range anywhere from the study of infectious diseases to the production of a vast array of foods and chemicals.

**Physics**
Physics extends and enhances our understanding of the other science disciplines. It is the foundation of engineering and technology, it contributes to the technological infrastructure and provides a basis for understanding of biology, chemistry, geology and other physical and biomedical sciences.

**Zoology**
Zoology is the study of animal life. It looks at how animals are built, how they work, how they behave, their evolutionary relationships and how they interact with other animals, plants, organisms and the physical environment. This course provides access to and study of our unique ecosystems: alpine heath, temperate rainforests, coastal landscapes and the Southern Ocean.

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*General Entry Requirements are briefly outlined in the ‘How to apply’ section. Visit uni.tas.edu.au/admissions for further details.
*Not all majors are available at all campuses. *Limited unit offering.

*Julia Shore
Bachelor of Science*
New in 2016 is the Science Catalyst Program. It combines a Bachelor of Science with extra experiences, activities and opportunities designed to reward students who have achieved academic excellence and have a passion for science.

Overseas Exchange
You receive a guaranteed $2,500 for a semester of study overseas at one of over 90 specialist, English speaking institutions across 30 countries. This is typically undertaken in your second year and you’ll be fully supported by our dedicated Student Mobility team all the way.

Summer Research Program
We also provide $3,000 for you to participate in an 8-10 week research project on a topic of your choice over the summer. You have the advantage of working in some of Australia’s best facilities, with access to leading researchers in whatever field of study you’re interested in. This may become a pre-cursor to an honours year, or a great experience to add to your CV, either way it’s putting you ahead when it comes to starting your career.

Science Honours
The knowledge, skills and experience you gain as part of the overseas scholarship and research program will equip you to take honours in your fourth year, with an offer made dependant on your performance during your undergraduate study.

If you accept an offer to study an honours year you will focus on a major area of study that you’ve worked on over the past three years and produce quality scientific research in that area. Honours programs are not just for those looking at a career in research, they also provide you an opportunity to put your knowledge into practice and give you an extra level of qualification and experience that can greatly improve your career opportunities upon graduation.

Bachelor of Philosophy
The Bachelor of Philosophy is offered for no additional cost to high achieving students who want to broaden the scope of their education and gain highly sought after and transferable employment skills.

The overseas exchange, research program, and honours year all count towards the Bachelor of Philosophy. This means that by participating in the Catalyst program you’re only a few units away from attaining a second degree in no extra time and for no additional cost.

Interstate Relocation Assistance
If you’re moving to Tasmania to study the Science Catalyst Program, you automatically qualify for a $7,500 relocation scholarship. This will be provided as $2,500 per year over the course of the three years of your undergraduate study.

Bachelor of Science (Catalyst Program)

<table>
<thead>
<tr>
<th>Duration</th>
<th>Three years full-time or equivalent part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Successful completion of TCE (Tasmanian Certificate of Education) or General Entry Requirements* Biochemistry, Chemistry, Mathematics and Physics majors require subject prerequisites in those topics</td>
</tr>
<tr>
<td>Entry</td>
<td>February and July</td>
</tr>
<tr>
<td>Location</td>
<td>Hobart*, Launceston*</td>
</tr>
<tr>
<td>Course code</td>
<td>7301</td>
</tr>
<tr>
<td>2016 Round 1</td>
<td>Clearly-in ATAR 90</td>
</tr>
</tbody>
</table>

As well as focusing on a topic I was really interested in (disease ecology) the best thing about the research program was the head start it gave me for my honours year. This program teaches you time management and self-directed learning skills, and how to tailor the allocation of time to certain tasks (such as reading, labs, thesis writing) to optimise the end result.*

Rhys Rumley
Bachelor of Science with First Class Honours

*General Entry Requirements are briefly outlined in the ‘How to apply’ section. Visitutas.edu.au/admissions for further details.
*Not all majors are available at all campuses. *Limited unit offering.
Marine and Antarctic Science

Bachelor of Marine and Antarctic Science

Duration: Three years full-time or equivalent part-time

Prerequisites: Successful completion of TCE (Tasmanian Certificate of Education) or interstate equivalent or General Entry Requirements*

Note: Some majors have additional prerequisites

Entry: February and July

Location: Hobart

Course code: K3S

2016 Round 1 Clearly-in-ATAR: 65

The Bachelor of Marine and Antarctic Science is arranged around the following three areas:

Marine Biology

The study of marine plants and animals is a field that can provide a lifetime of rich and rewarding experiences around the globe. A Bachelor of Marine and Antarctic Science from the University of Tasmania gives you the qualifications to work as a marine biologist anywhere in the world.

Policy and Governance

This area focuses on management, policy and law with special relevance to the Antarctic and Southern Ocean which in Australia is a theme area unique to the University of Tasmania.

Physical Oceanography/Physical Sciences

This area provides an introduction in the physical sciences (mathematics, physics, earth sciences) allowing students to specialise in physical oceanography, chemical oceanography or marine geosciences through a choice of six majors:

- Chemistry
- Geology
- Geographic Information Systems and Remote Sensing
- Physical Oceanography
- Modelling and Technology
- Physics

Upon completion of the course students will have the capacity to plan and execute research projects associated with the above, and/or be capable of making decisions in science or policy-related areas.

Additional prerequisites

The following majors require satisfactory completion of pre-tertiary or equivalent subjects:

Marine Biology:

- Biology major = chemistry
- Physical Oceanography/Physical Sciences:
  - Chemistry major = chemistry and maths methods
  - Geology major = maths methods
  - GIS and Remote Sensing major = maths methods
  - Physical Oceanography major = maths methods and physics
  - Modelling and Technology major = maths methods
- Physics major = maths methods and physics

Marine Environment

For specific information on Marine Environment, including Aquaculture, Marine Conservation and Fisheries Management, please refer to the Bachelor of Applied Science (Marine Environment) on page 8.

Surveying and Spatial Sciences

Bachelor of Surveying and Spatial Sciences

Duration: Three years full-time or equivalent part-time

Prerequisites: Successful completion of TCE (Tasmanian Certificate of Education) including Satisfactory Achievement (SA) in Mathematics Methods

or interstate equivalent or General Entry Requirements*

Entry: February and July

Location: Hobart, Launceston

Course code: 73G

2016 Round 1 Clearly-in-ATAR: 65

Surveying and Spatial Sciences show us our place in the physical world. These rapidly growing disciplines involve an integrated approach to the science and technologies of measurement, mapping, analysis and visualisation of data. The skills you learn can be applied to any aspect of industry, science and society that need high quality information to make reliable decisions.

Through this degree you’ll study two majors: Geographic Information Systems and Remote Sensing and Surveying. You’ll also study a minor in Geography and Remote Sensing and Surveying. You’ll gain knowledge and skill set.

If you would like to work as a registered Land Surveyor, you must complete the one-year Graduate Diploma of Land Surveying following graduation.

Career opportunities

- Engineering / mining / hydrographic surveyor
- Geodesist
- Geospatial analyst
- Geographic Information systems specialist
- Land / cadastral surveyor
- Land and environmental manager
- Remote sensing / image analyst

Professional recognition

On graduatgin in Surveying and Spatial Sciences you will be able to apply for membership of the Surveying and Spatial Sciences Institute (Australia). The degree is internationally accredited through the Chartered Institution of Civil Engineering Surveyors (ICES). Students graduating with the Graduate Diploma in Land Surveying are eligible to complete professional registration through the Tasmanian Land Surveyors Accreditation Board.

Other environment related degrees

You may also wish to look at the following degrees in our other study theme brochures:

- Bachelor of Marine and Antarctic Science
- Bachelor of Health Science
- Bachelor of Environmental Design
- Bachelor of Environmental Management

Other Science-related degrees

In addition to the Bachelor of Science and its broad range of majors, we offer many other degrees with a science focus. These include:

Medicine and Para-medicine

- Biomedical Science
- Exercise Science
- Medical Research
- Medicine/Surgery
- Paramedic Practice
- Physical Activity Studies

Pharmacy

- Pharmacy

Psychology

- Arts (with Psychology major)
- Psychological Science
- Psychology with Honours
- Social Science (with Psychology major)

For details of these particular degrees, pick up the particular study theme brochure or search online.

Other Science-related degrees

- Biomedical Science
- Exercise Science
- Medical Research
- Medicine/Surgery
- Paramedic Practice
- Physical Activity Studies

Pharmacy

- Pharmacy

Psychology

- Arts (with Psychology major)
- Psychological Science
- Psychology with Honours
- Social Science (with Psychology major)
When you commence study with the University of Tasmania in a Commonwealth supported place (CSP), you must contribute towards the cost of your tuition. The amount you pay depends on which units you study and the payment method you choose.

**Student contribution amounts and rules**

To be eligible for a CSP you must be an Australian citizen, a New Zealand citizen or hold a permanent residency visa. The student contribution is calculated based on the units of study that you enrol in. Each unit is assigned to a ‘band’ according to the subject area it comes from. The band tells us how much to charge for one equivalent full-time student load (EFTSL), equivalent to 100 credit points, or 100% load.

Most units at the University of Tasmania are 12.5 credit points (0.125 EFTSL), so to calculate the cost of a unit we multiply the contribution amount for that designated band by 0.125. For example, the student contribution amount for a 12.5 credit point Nursing unit of study would be $6256 × 0.125 = $782. A typical three-year degree is made up of 24 units.

**HECS-HELP**

The majority of university students across Australia choose to defer their student contribution until after they have commenced in the workforce. You can do this by taking out a HECS-HELP loan. HECS-HELP is available to eligible students enrolled in a CSP. This loan can cover all or part of the student contribution amount. You are eligible for HECS-HELP if you are an Australian citizen or the holder of a permanent humanitarian visa. Under this option, the Commonwealth Government pays the loan amount directly to the University of Tasmania. Then, when your salary reaches the minimum repayment threshold, you will make compulsory repayments through the tax system. To learn more, visit studyassist.gov.au

**Accommodation and general living expenses**

Accommodation and general living expenses will also vary depending on your chosen living arrangements. To learn more about accommodation options, visit utas.edu.au/accommodation

**Other costs**

Students are required to pay a student services and amenities fee (SSAF). In 2016, the fee is around $290 for a full-time undergraduate student. Part-time students are charged on a pro-rata of study load undertaken. Students who are unable to pay the fee up-front can defer all or part of the fee through an element of the Higher Education Loan Program, known as SA-HELP. The fee contributes to funding student services such as legal and health services, counselling, and sport and recreation activities.

You will also need to cover costs such as textbooks, materials, art supplies or software for your course. These costs can vary from course to course.

When you commence study with the University of Tasmania in a Commonwealth supported place (CSP), you must contribute towards the cost of your tuition. The amount you pay depends on which units you study and the payment method you choose.

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You will also need to cover costs such as textbooks, materials, art supplies or software for your course. These costs can vary from course to course.
How to apply

Applications are made directly to the University of Tasmania.

Year 12 applicants
For Year 12 students, applications for Semester 1 should be submitted electronically via the University's online application process.

The ‘timely’ application period opens in August and closes in the last week of September. Late applications will be accepted by the University, but some programs that have special requirements will not accept late applications.

Changing your preference
You can change your original ‘timely’ application course preferences during the Change of Preference period in December. This allows you to modify your course selection depending on your results from your final examinations.

Learn more by visiting utas.edu.au/apply

Non-school leaver (mature aged) applicants
If you are not a Year 12 student, you apply directly to the University via the online application process. As a non-year 12 student your application will be considered on a broad range of factors, including previous studies, work experience and any extra requirements specified for the course.

To meet the General Entry Requirements (GER) into an undergraduate degree, at least one of the following must be completed:
– Year 12
– Certificate IV, diploma or advanced diploma and/or
– Successful completion of a University enabling program including foundation units in any prerequisite requirements, such as chemistry, mathematics or physical sciences
– Personal competency statement demonstrating how work experience or background meets the University’s General Entry Requirements

Particular degrees may also require you to sit a Special Tertiary Admissions Test.

Visit utas.edu.au/courses or utas.edu.au/apply for further details.

Quick reference guide

Degrees

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<th>COURSES</th>
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<th>Clearly-in ATAR</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>Bachelor of Science (Environmental Science)</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
<td>L</td>
</tr>
<tr>
<td>Bachelor of Science (Marine Environment)</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
<td>L</td>
</tr>
<tr>
<td>Bachelor of Biotechnology</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
<td>H</td>
</tr>
<tr>
<td>Bachelor of Marine and Antarctic Science</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
<td>H</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
<td>H, L</td>
</tr>
<tr>
<td>Bachelor of Science (Catalyst Program)</td>
<td>3 yrs FT or equivalent PT</td>
<td>90</td>
<td>H, L</td>
</tr>
<tr>
<td>Bachelor of Surveying and Spatial Sciences</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
<td>H, L</td>
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</table>

Double Degrees

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<thead>
<tr>
<th>COURSES</th>
<th>DURATION</th>
<th>Clearly-in ATAR</th>
<th>LOCATION</th>
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</thead>
<tbody>
<tr>
<td>Bachelor of Arts / Bachelor of Science</td>
<td>4 yrs FT or equivalent PT</td>
<td>65</td>
<td>H, L</td>
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<tr>
<td>Bachelor of Business / Bachelor of Science</td>
<td>4 yrs FT or equivalent PT</td>
<td>65</td>
<td>H, L</td>
</tr>
<tr>
<td>Bachelor of Economics / Bachelor of Science</td>
<td>4 yrs FT or equivalent PT</td>
<td>65</td>
<td>H, L</td>
</tr>
<tr>
<td>Bachelor of Information and Communication Technology / Bachelor of Science</td>
<td>4 yrs FT or equivalent PT</td>
<td>65</td>
<td>H, L</td>
</tr>
<tr>
<td>Bachelor of Science / Bachelor of Engineering (Honours)</td>
<td>5 yrs FT or equivalent PT</td>
<td>80</td>
<td>H, L</td>
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<tr>
<td>Bachelor of Science / Bachelor of Laws</td>
<td>5 yrs FT or equivalent PT</td>
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<td>CC, H, L</td>
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Pathways

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<tr>
<th>COURSES</th>
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<tbody>
<tr>
<td>Bachelor of General Studies (Science Pathway)</td>
<td>1 yr FT or equivalent PT</td>
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</tr>
<tr>
<td>University Preparation Program (UPP)</td>
<td>1 yr FT or equivalent PT</td>
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</tbody>
</table>

To find more information about all University of Tasmania courses, visit utas.edu.au/courses
KEY DATES

1 August 2016
Applications open

30 September 2016
On-time applications close, 5.00pm

Year-round availability
One-on-one course advisor appointments

OPEN DAYS

7 August 2016
University of Tasmania Open Day
Hobart, Launceston, Burnie (TAS)

27 August 2016
University of Tasmania Open Day
Darlinghurst (NSW)

28 August 2016
University of Tasmania Open Day
Rozelle (NSW)

FURTHER INFORMATION

1300 363 864
utas.edu.au