The University of Tasmania has recently re-confirmed its position as one of Australia’s best universities in a wide range of disciplines, as ranked by the internationally recognised QS World University Rankings for 2015.

The international ratings agency evaluate more than 3000 universities for academic reputation, employer reputation and research impact.
Our University has had more than 25 years’ experience in the emerging field of Marine and Antarctic Science and is one of the world’s largest marine research organizations.

With an annual value to Australia of approximately $40 billion and growing, study and careers in Marine and Antarctic go far beyond conservation issues and resource sustainability. To help you match your career to an area of interest, we offer three underlying research and teaching themes: fisheries and aquaculture; oceans and cryosphere; and, ecology and biodiversity.

We have an interdisciplinary approach to teaching ocean and polar science that integrates the study of natural sciences with current practice in management, policy and law.

Our degrees give a unique applied and translational science approach to an educational experience centred on ecological sustainability. Once graduated, students are able to contribute to the sustainable management of the marine environment, thereby increasing the total quality of life as described in Australia’s National Strategy for Ecologically Sustainable Development (ESD).

Your studies can literally be the tip of the iceberg in this fascinating area of science, environment and industry. You combine elements of biology, chemistry, physics, geology, oceanography and mathematics with environmental governance, management and policy to maintain the marine environment for future generations.

The skills and knowledge you learn could see you have a real impact on practices, processes and policies on a local, national or worldwide scale.

Inter-disciplinary research is a strength of the University. We participate in major research and development programs. We have key partnerships with the Australian Antarctic Division and the Commonwealth Scientific and Industrial Research Organisation.

Our research strengths in Marine and Antarctic studies span our underlying themes and focus on climate change, ocean-Earth systems and ocean and Antarctic governance.

The University has more than 25 years’ experience in the area and is one of the world’s largest marine research organizations.
Studying Marine and Antarctic

Why Marine and Antarctic studies?
Marine and Antarctic studies attracts those who already have a fascination for the marine world or Antarctica, and are interested in becoming a highly trained scientist able to contribute to marine environmental conservation and sustainability. If you enjoy the natural and physical sciences, you could also combine this passion for science with a love of the outdoors and adventure.

You may choose this course because of your love of science or the desire to understand our natural environment. These courses offer a wide range of careers options in marine and freshwater research, oceanography, fisheries, and climate research or environment conservation.

Group work, projects and field trips provide extra challenges and opportunities to work alongside world-class academics and researchers.

Career opportunities with Marine and Antarctic degrees
These degrees make you very competitive when applying for jobs, including:
- Antarctic administration and policy
- Aquaculture
- Australian Antarctic Division
- Biological, chemical or physical oceanography
- Biologist – marine and plant
- CSIRO Marine and Atmospheric Research
- Environmental conservation
- Fisheries management (commercial and sport)
- Geologist
- Glaciologist
- Marine and freshwater research
- Marine conservation
- Marine ecosystems, climate research and impact assessments
- Oceanography
- Physicist
- State and Federal Government departments
- Tourism

Your study opportunities
Different 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 double degree or a degree with honours can give you expanded career opportunities, or you could pursue postgraduate study and research.

◆ Choose specialist studies to focus your career.
Degrees

Single degrees in Marine and Antarctic usually take three years to finish (full-time) and require the successful completion of 24 units.

In the Marine and Antarctic Science degree, all students complete a Marine and Antarctic major (eight units), a specialist major (eight units – two introductory, two intermediate, four advanced units) and linked minor (four units) in a number of streams. Each stream offers a combination of compulsory units and directed choice units. You also choose two student electives and two breadth units.

In the Applied Science (Marine Environment) degree, there is a compulsory core major for all students, with a choice of second major (Aquaculture, Fisheries Management or Marine Conservation), a linked minor and two student electives and two breadth units.

All students have the opportunity to complete a marine research project or a discipline-based capstone unit.

Marine and Antarctic Science majors
The degree takes an interdisciplinary approach and offers a number of majors.
- Chemistry
- Geographic Information Systems and Remote Sensing
- Geology
- Marine and Antarctic Governance
- Marine Biology
- Modelling and Technology
- Physical Oceanography
- Physics

Applied Science (Marine Environment) majors
The degree integrates the natural sciences with social sciences, management, policy and law, and is offered in three streams.
- Aquaculture
- Marine Conservation
- Fisheries Management

Double or Combined degrees
A double 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.

Double 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 double degree is an ideal way to get the most from your time at university.

Honours
Honours can help you gain deeper knowledge in your specialist area, and shows you how to plan, conduct, analyse, evaluate and communicate original research.

An Honours year involves an investigative project, leading to an oral presentation and a written thesis describing the work.

It 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 research at a University or research organisation.

Alternative entry pathways
If you don’t have the prerequisites or ATAR score for direct entry into your chosen degree, an alternative entry pathway can help you get into the course you want.

Students without the required entry requirements for degree studies can apply for the Associate Degree in Aquaculture or the Associate Degree of Applied Science (Marine Environment).

Graduates or current students of the Associate Degree in Aquaculture, the Associate Degree of Applied Science (Marine Environment), or Bachelor of General Studies (Science) may apply for entry to both degrees with the possibility of partial/full credit transfer.
Your university learning experience goes beyond lectures, labs and tutorials.

The teaching environment here aims to provide a distinctive, energising and rewarding university experience for all students. Led by experienced and approachable staff, your learning could also include an international study exchange, an industry placement and practical project work.

Study Abroad

Our international exchange program offers opportunities for a semester of study at universities around the world, including partner institutions in China, the USA and Canada.

Study Abroad Scholarships

The University actively encourages our students to extend their learning opportunities by undertaking international study exchange. To facilitate this exchange, we offer a range of scholarships and financial assistance.

Additional learning resources

The University of Tasmania provides extensive teaching laboratory facilities that provide valuable hands-on experience in all specialisations.

A series of dedicated labs provide students with the latest technology and environments for their specialist discipline.

You will have access to online academic skills tutorials to help with your research assignments, as well as programs designed to develop your communication, mathematical and English language skills. Students also have 24-hour access to dedicated computer labs.

Institute for Marine and Antarctic Studies

Opened in 2013, the $45m Institute for Marine and Antarctic Science (IMAS) building, on the Hobart waterfront, contains a mix of public areas, research, teaching and student facilities and hot desks.

These facilities include purpose-built, state-of-the-art laboratories, a large public exhibition area and a lecture theatre. It creates a world-significant hub and co-locates IMAS with the Integrated Marine Observing System and the Antarctic Climate and Ecosystems Cooperative Research Centre among others.

The recent integration of the Australian Maritime College’s NCMCRS as ‘IMAS – Launceston’ has added to staff expertise and provides very good teaching facilities on the Newnham campus, including the Aquaculture Centre and the AMC training vessels.

IMAS has strong links with the local community, and productive ties with leading marine and Antarctic research organisations in Tasmania, in the rest of Australia, and across the globe.

Antarctic Gateway Partnership

The Partnership, between the University, CSIRO and the Australian Antarctic Division, employs early-career researchers and technicians working with senior scientists at the largest Southern Hemisphere Antarctic and oceans research hub. This research influences our curriculum and further enhances Tasmania's reputation as a global leader in Antarctic and Southern Ocean science. It provides a gateway for Antarctic research, education, innovation and logistics, and the careers that creates.

Scholarships

Each year, the University offers more than 900 general and specific awards, across all academic areas. Awards are based on merit and equity and reward excellence and improve access for new or continuing students. Application details and selection criteria for each award are clearly noted for each award on our website and within the online application.

See: utas.edu.au/scholarships-bursaries

A distinctive, energising and rewarding university experience for all students.
Course information

Aquaculture

Associate Degree in Aquaculture

<table>
<thead>
<tr>
<th>Duration</th>
<th>Two years full-time or equivalent part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites</td>
<td>Successful completion of TCE (Tasmanian Certificate of Education) in two subjects, preferably English, maths or science subject, or interstate equivalent or General Entry Requirements*</td>
</tr>
<tr>
<td>Entry</td>
<td>February and July</td>
</tr>
<tr>
<td>Location</td>
<td>Launceston</td>
</tr>
<tr>
<td>Course code</td>
<td>J2A</td>
</tr>
<tr>
<td>2015 Round 1</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Designed with industry needs in mind, this associate degree provides practical education and training in aquaculture. It gives you the skills employers demand through a combination of vocational, scientific and technological training completed with an industry placement.

You will study a set of introductory theoretical units covering biology, chemistry and mathematics and you will also develop skills and understanding across all facets of aquaculture production.

Areas of study
- Aquaculture Technology
- Fish health management
- Grow-out production techniques
- Hatchery production techniques
- Seafood quality and assessment

Additional prerequisites
Students must have a satisfactory achievement or higher in a minimum of two pre-tertiary subjects. We prefer these include English, maths and a science subject, but this is not compulsory.

Career opportunities
Aquaculture production including:
- Algal culture
- Fish and shellfish
- Live feeds
- Systems maintenance

Further study options
Graduates with a minimum grade of credit in second-year Aquaculture units can enrol in the Bachelor of Applied Science (Marine Environment) majoring in Aquaculture and will receive credit for subjects passed.

Fisheries

The need for sustainable aquaculture and for sustainable management of commercial fisheries is vital to the environment and to economies around the world.

A Bachelor of Applied Science (Marine Environment) from the University of Tasmania gives you qualifications to work in these growing industries.

See below for details of the Bachelor of Applied Science (Marine Environment).

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

2015 Round 1
Clearly-in ATAR
65

Areas of study
Marine Biology:
- Biology
- Chemical Oceanography

Policy and Governance
Physical Sciences:
- Mathematics
- Chemistry
- Geology
- GIS and Remote Sensing
- Modelling and Technology
- Physics

Additional prerequisites
Some specialisations require pre-tertiary studies in specific subjects.

Biological and Chemistry majors require completion of Chemistry.
The following majors require satisfactory completion of pre-tertiary or equivalent subjects:
Marine Biology:
Biology major = chemistry subject

Physical Sciences:
Chemistry major = chemistry and mathematics subjects
Mathematics major = mathematics and physics subjects
Physics major = mathematics and physics subjects
Geology major = mathematics subject
GIS and Remote Sensing major = mathematics subject.

If you do not have qualifications in these areas, you may be able to undertake approved foundation units through the University Preparation Program.

Career opportunities
- Antarctic administration and policy
- Biological, chemical or physical oceanography
- Environmental conservation
- Management of marine coastal resources
- Marine and freshwater research
- Marine ecosystems, climate research and impact assessments
- Research scientist: biology, microbiology, geology, glaciology, physics

The Bachelor of Marine and Antarctic Science is run in conjunction with the Faculty of Science, Engineering and Technology.

Marine Biology

Run by world-renowned experts, this degree gives you a broad foundation in the study of temperate marine, Antarctic and Southern Ocean science based on interdisciplinary themes. These themes include oceans and cryosphere, ecology and biodiversity, climate change, ocean-earth system and ocean and Antarctic governance.

You will study a range of sciences including biology, chemistry, oceanography and mathematics, giving you strong research skills to pursue further study after graduation or work within the sector. Study is based around three streams: Marine Biology, Policy and Governance and Physical Sciences with some majors available under these areas.

Career opportunities
- Antarctic administration and policy
- Biological, chemical or physical oceanography
- Environmental conservation
- Management of marine coastal resources
- Marine and freshwater research
- Marine ecosystems, climate research and impact assessments
- Research scientist: biology, microbiology, geology, glaciology, physics

The Bachelor of Marine and Antarctic Science is run in conjunction with the Faculty of Science, Engineering and Technology.

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.

Marine Conservation

With a booming world population, the stress on an already strained environment is being felt particularly strongly in the southern oceans. A Bachelor of Applied Science (Marine Environment) from the University of Tasmania gives you the qualifications to create a career in a field which will keep you fascinated and challenged throughout your life.

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

**Bachelor of Applied Science (Marine Environment)**

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

**Prerequisites**
- Successful completion of TCE (Tasmanian Certificate of Education) including English, Maths and a Science subject, or interstate equivalent or General Entry Requirements*

**Entry**
- February and July

**Location**
- Launceston

**Course code**
- J3T

**2015 Round 1**
- Clearly-in ATAR: 60

This is a vibrant and contemporary undergraduate degree program that develops high-performing graduates with specialist skills and knowledge. The flexible degree structure ensures you can gain broad exposure across natural and biological sciences, economics, management, social science, policy and law.

During your study, you’ll gain hands-on experience in field research techniques, laboratory methods and opportunities to undertake work placement in industry and government. With such a dynamic range of topics, you’ll be well equipped to pursue a number of career pathways related to marine research, sustainable resource use and environmental management.

**Areas of study**
- Aquaculture
- Fisheries Management
- Marine Conservation

**Career opportunities**
- Aquaculture
- Biosecurity
- Environmental management and conservation
- Marine science, policy and research
- Marine tourism
- Wild capture fisheries management

**Professional recognition**
This degree is accredited by the Institute of Marine Engineering, Science and Technology (IMarEST) with graduates recognised as meeting the academic base requirement, (in part) for registration as a chartered scientist or marine scientist, and (in full) for a registered marine scientist.

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**Associate Degree in Applied Science (Marine Environment)**

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

**Prerequisites**
- Satisfactory Achievement of TCE (Tasmanian Certificate of Education) in four subjects, including English, including English, Maths and a Science subject, or interstate equivalent or General Entry Requirements*

**Entry**
- February and July

**Location**
- Launceston

**Course code**
- J2C

**2015 Round 1**
- Clearly-in ATAR: N/A

Through this multi-disciplinary course, you’ll learn about the marine environment in Australia from a variety of perspectives. The foundation units will enhance your scientific knowledge and academic skills. Through these, you’ll gain a broad introductory exposure to the areas of natural sciences, social sciences, technology and environmental management. Then you’ll have the opportunity to select from a range of elective units on natural science, technology, environmental economics, policy, law and others to suit your interests.

You then choose two out of our five specialisations:
- Aquaculture
- Aquatic Biology
- Aquatic Science
- Fisheries Management
- Marine Conservation

Studying of such a range of subjects give you a multitude of career opportunities and equips you to take entry-level positions throughout the marine or maritime sectors.

*General Entry Requirements are briefly outlined in the ‘How to apply’ section. Visit [utas.edu.au/admissions](http://utas.edu.au/admissions) for further details.*
Additional prerequisites
All students must have satisfactory achievement or better in four pre-tertiary subjects. Preferably these should include English, maths and a science subject to provide you with the best preparation for the Associate Degree.

Alternative entry
Students who meet the entry requirements for the Bachelor of General Studies and can supply a Supporting Statement can also be considered for the Associate Degree.

Career opportunities
- Conservation and environmental management within government (local to federal)
- Fisheries and aquaculture production
- Marine tourism
- Non-government organisations
- Regulatory and policy organisations

Further study options
This is a pathway program to the Bachelor of Applied Science (Marine Environment). Graduates of the Associate Degree receive up to three semesters’ credit in the Bachelor degree.

Oceanography
The study of oceans covers as wide a range of topics as the oceans and seas cover the world, from ecosystems and organisms to ocean currents and plate tectonics. A Bachelor of Marine and Antarctic Science from the University of Tasmania is an ideal entry to this incredibly diverse field.

Physical Sciences
The study of ocean currents, changing ocean temperatures and sea-level and the ocean’s role in the climate system 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 an oceanographer anywhere in the world, and our graduates do just that.

Honours
- Bachelor of Antarctic Science (Honours)
- Bachelor of Marine Science with Honours
- Bachelor of Applied Science (Marine Environment) with Honours

If interested in Sciences, you may also wish to look at the following undergraduate degrees in our Study Guide booklets:
- Bachelor of Science
Financial matters

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 an Australian Permanent Resident 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 $6152 \times 0.125 = $1076.63.

A typical four-year degree is made up of 32 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 a Commonwealth supported student and 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

2015 student contribution by band

<table>
<thead>
<tr>
<th>BAND 1</th>
<th>BAND 2</th>
<th>BAND 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6152* per full-time year (100% load)</td>
<td>$8768* per full-time year (100% load)</td>
<td>$10,266* per full-time year (100% load)</td>
</tr>
<tr>
<td>Nursing*</td>
<td>Mathematics*</td>
<td>Law</td>
</tr>
<tr>
<td>Education*</td>
<td>Statistics*</td>
<td>Accounting</td>
</tr>
<tr>
<td>Humanities</td>
<td>Science*</td>
<td>Administration</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Computing</td>
<td>Economics</td>
</tr>
<tr>
<td>Behavioural Science</td>
<td>Built Environment</td>
<td>Business/Commerce</td>
</tr>
<tr>
<td>Clinical Psychology</td>
<td>Other Health</td>
<td>Dentistry</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>Allied Health</td>
<td>Medicine</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts</td>
<td>Engineering</td>
<td>Veterinary Science</td>
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<tr>
<td></td>
<td>Surveying</td>
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<td>Agriculture</td>
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<td></td>
<td>Agriculture</td>
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<td>AMC</td>
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</tbody>
</table>

*The student contribution amounts for mathematics, statistics and science are subject to passage of the Higher Education Support Amendment (Student Contribution Amounts and Other Measure Bill 2012).

1. For pre-2010 students, the maximum annual student contribution amount that may be charged for Education and Nursing units is $4696.
2. From 1 January 2010, the maximum annual student contribution amount for commencing Commonwealth supported students undertaking Education and Nursing units of study has been increased from the ‘national priority’ rate to the Band 1 rate.
3. The increased maximum annual student contribution amounts affect only students who commence their course of study at a higher education provider on or after 1 January 2010.
4. If you are a mathematics, science, education, nursing or midwifery graduate you may be eligible for a HECS-HELP Benefit.
5. This table is a guide only. Fees are reviewed each year by the Commonwealth Government and may vary.

Other costs

Students are required to pay a student services and amenities fee (SSAF). In 2015, the fee is around $340 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.

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
How to apply

Applications should be made directly to the University of Tasmania, depending on your course and when you want to commence.

**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 and 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](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

– 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](utas.edu.au/courses) or [utas.edu.au/apply](utas.edu.au/apply) for further details.
Quick reference guide

## Degrees

<table>
<thead>
<tr>
<th>COURSES</th>
<th>DURATION</th>
<th>Clearly-in ATAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Marine and Antarctic Science</td>
<td>3 yrs FT or equivalent PT</td>
<td>65</td>
</tr>
<tr>
<td>Bachelor of Applied Science (Marine Env)</td>
<td>3 yrs FT or equivalent PT</td>
<td>60</td>
</tr>
<tr>
<td>Associate Degree in Aquaculture</td>
<td>2 yrs FT or equivalent PT</td>
<td>N/A</td>
</tr>
<tr>
<td>Associate Degree of Applied Science (Marine Env)</td>
<td>2 yrs FT or equivalent PT</td>
<td>N/A</td>
</tr>
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</table>

## Pathways

<table>
<thead>
<tr>
<th>COURSES</th>
<th>DURATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of General Studies</td>
<td>1 yr FT or equivalent PT</td>
</tr>
<tr>
<td>University Preparation Program</td>
<td>1 yr FT or equivalent PT</td>
</tr>
</tbody>
</table>

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

30 August 2015
University of Tasmania Open Day

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

FURTHER INFORMATION

1300 363 864
utas.edu.au