Agriculture, Food and Wine
Animal and Veterinary Sciences
Biomedical Science and Biotechnology
Earth and Environmental Sciences

Undergraduate

2019 SCIENCES

adelaide.edu.au
Produced 110 Rhodes Scholars
Member of Group of Eight*
Ranked in top 1% of universities worldwide
Associated with 5 Nobel Laureates

*Go8
WHY THE UNIVERSITY OF ADELAIDE?

With a degree from one of the world’s top universities, students are prepared to be tomorrow’s leaders.

University of Adelaide graduates are highly regarded and internationally recognised. Students learn from academics who are global leaders in their field. Adelaide has a proud tradition that instils confidence in our students. We are Australia’s third oldest university and have a history of excellence in education spanning more than 140 years.

We are distinguished by an emphasis on equality and by our focus on delivering outstanding research for the benefit of society. The University of Adelaide has played a role in many of the world’s important discoveries and advancements, with our alumni having contributed significantly to the educational, political and social arenas of their day.

University of Adelaide students are motivated to achieve their best and are supported by an inspiring educational community committed to helping them.

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*A coalition of Australia’s leading research intensive universities.*
Studying science goes beyond experimentation in a lab. It’s deeply intertwined in the everyday workings of our modern world.

Science in demand
Science is integral in all aspects of life. It influences the way we care for each other through medicine, and shapes the way we communicate. It fuels our busy lives through advances in food production and transportation. It informs our interactions with, and care for, the natural world. Consequently, the need for graduates with science knowledge is increasing; an estimated 75% of Australia’s fastest growing employment areas now require a foundation in science, technology, engineering and maths (STEM).*

* A Smart Move: Future-proofing Australia’s Workforce, PwC 2017

Careers beyond science
Tomorrow’s employment landscape is evolving so rapidly that graduates are expected to undertake three to five career changes in their working life. This will require them to have a toolkit of skills beyond just traditional science.

As well as providing a solid foundation of core science, the University of Adelaide equips new-generation science professionals with complementary skills in business, enterprise and communication, ensuring they’re adaptable and resilient.

We encourage students to look beyond conventional science careers to other applications of their skills too. Physics graduates are putting their data-crunching skills to work by spotting financial market patterns or predicting the impact that natural events, like earthquakes, have on the market. Environmental graduates are using their passion for science to create engaging videos that get crucial new research noticed and simplifying complex issues, like the effects of climate change, for the general public.
LIFE EXPERIENCE THROUGH GLOBAL LEARNING

www.adelaide.edu.au/global-learning

All students will have the opportunity to study overseas through a range of programs, including student exchange, study tours and summer and winter schools. There are many exciting opportunities in Europe, Asia, the Americas and Africa.

ABORIGINAL AND TORRES STRAIT ISLANDERS

www.adelaide.edu.au/wirltu-yarlu

The University of Adelaide values diversity where the rich cultures of Aboriginal and Torres Strait Islanders are taught, supported and celebrated. Wirltu Yarlu provides a range of services, and preparation programs that are designed to support educational outcomes. Wirltu Yarlu is a place where students can soar to new heights.

ADVANCED BACHELORS

www.adelaide.edu.au/degree-finder

High achieving students who are inspired by the opportunity to contribute to the world’s important discoveries and research advancements should consider the Advanced Bachelors degrees. These degrees provide a unique close quarters learning experience with academics of international distinction.

AS WELL AS PROVIDING A SOLID FOUNDATION OF CORE SCIENCE, THE UNIVERSITY OF ADELAIDE EQUIPS NEW-GENERATION SCIENCE PROFESSIONALS WITH COMPLEMENTARY SKILLS IN BUSINESS, ENTERPRISE AND COMMUNICATION.
Teaching led by acclaimed research

The University of Adelaide brings together different strands of science, and staff from around the world to conduct world-class research. Their work informs our teaching, and gives students the opportunity to use science to understand disease, tackle environmental challenges, advance technology and map distant galaxies.

Our campuses are home to a number of co-located industry partners, affiliated researchers and research institutes of international significance. This gives students a unique opportunity to gain practical and theoretical knowledge through participation in ongoing national and international research projects.

Support

Studying at university can be exciting, but also challenging. So we ensure there’s plenty of help on-hand. Our First Year Experience Program makes the transition as easy as possible. It activates before students enrol, providing face-to-face enrolment advice and support to get students off to a good start.

The Sciences Mentoring Program matches small groups of new students with a more seasoned science student, who will stay in touch throughout their first semester for peer support.

If students need help with their studies, we offer drop-in services across the main first-year courses. We provide access to our Peer-Assisted Study Sessions program, in which students help each other learn.

Guaranteed entry

A wide range of University of Adelaide degrees now have a pre-set entry score, known as ‘guaranteed entry’, instead of a cut-off that varies each year.

For guaranteed entry into our science degrees*, students must meet the degree prerequisites and achieve a 75 Selection rank or above (including bonus points, if eligible). It’s that straightforward. Students who think they might score under 75, however, shouldn’t stress. There are still opportunities to study sciences at Adelaide.

For more details, visit www.adelaide.edu.au and search guaranteed entry.

* There are some exceptions. Check the University website for full details.

FIT UNI INTO LIFE

This diary snapshot is an example of how a student may choose to schedule their university study and life. Attendance at university is less structured than at high school. Hours spent on campus in lectures, tutorials, practicals or in the field—known as ‘contact hours’—depend on the degree enrolled in, study mode selected (internal, external, online or flexible learning) and course choices.

**FIT UNI INTO LIFE**

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.10am Chemistry lecture</td>
<td>9.30am Work on Biology assignment</td>
<td>10.10am Earth’s Systems tutorial</td>
<td>9.30am Workout at Uni gym</td>
<td>11.10am Biology lecture</td>
</tr>
<tr>
<td>11.10am Biology lecture</td>
<td>11.10am Chemistry lecture</td>
<td>11.10am Biology lecture</td>
<td>11.10am Human Biology practical</td>
<td>11.10pm Chemistry lecture</td>
</tr>
<tr>
<td>12pm Meet Dan and Mia at Burger Theory in Hub Central for lunch</td>
<td>12.10pm Human Biology lecture</td>
<td>12.10pm Human Biology tutorial</td>
<td>12.10pm Human Biology practical</td>
<td>12.10pm Philosophy</td>
</tr>
<tr>
<td>1.10pm Human Biology lecture</td>
<td>1pm Quick nibble on the Barr Smith Lawns</td>
<td>2.10-3pm Human Biology lecture</td>
<td>2.10-3pm Human Sociology</td>
<td>2.10-3pm Philosophy</td>
</tr>
<tr>
<td>2.10pm Earth’s Systems lecture</td>
<td>1.10pm Earth’s Systems lecture</td>
<td>2.10-5pm Human Sociology</td>
<td>1.10pm Earth’s Systems practical</td>
<td>2.10-5pm Chemistry practical</td>
</tr>
<tr>
<td>5pm Dinner with family</td>
<td>2.10-5pm Biology practical</td>
<td>3-6pm Part-time work scheduled</td>
<td>5pm Meet up with tute classmates for test revision</td>
<td>5pm Shopping in Rundle Mall</td>
</tr>
<tr>
<td></td>
<td>7pm Film Club night</td>
<td>6-8pm Part-time work scheduled</td>
<td></td>
<td>7pm Meet up with Matt at UniBar</td>
</tr>
</tbody>
</table>
The Careers Service is available to assist all students to maximise their employability, develop connections with industry, and develop their competitive advantage by delivering a suite of industry informed, student focused career development services.

The award winning Careers Service team works closely with a wide range of employers to ensure our industry knowledge is second to none. Our partnerships with local, national and international employers informs our staff about current opportunities available for students looking for work experience or graduate work and provides an in-depth knowledge about what employers are looking for.

To increase the awareness of employment opportunities after graduation, the Careers Service organise an annual Careers Expo and host events where employers work on campus to network with students and promote career pathways within their organisations.

Our industry mentoring program provides opportunities for students to meet and gain insight from graduates, managers and leaders at various stages in their career lifecycle. Getting to know people in your industry is a very useful way to source career opportunities and make yourself more competitive.

All employers value industry related work experience, and being able to draw on these experiences is one way of providing evidence of skills, knowledge and abilities developed. From the Careers Service, students can access advice on how to source industry related work experience, how to create an outstanding application, how to make the most of opportunities, and how to articulate those experiences on their resume.

The Careers Service also has an online CareerHub available 24/7 listing opportunities for work experience and graduate jobs, as well as industry related part-time and volunteer work. CareerHub also hosts a large number of resources to help students connect with industry and apply for work.

In addition to individual careers advice appointments, small group workshops offer topics such as writing resumes, preparing for interviews and looking for work experience.
### CAREERS AND STUDY

#### INDICATIVE STUDY-TO-CAREER PATHWAYS

<table>
<thead>
<tr>
<th>Study area</th>
<th>Bachelor degree programs</th>
<th>Current career paths</th>
<th>Emerging career paths</th>
</tr>
</thead>
</table>
| **Agriculture, Food and Wine** | • Agricultural Sciences  
• Food and Nutrition Science  
• Viticulture and Oenology | • Agricultural consultant  
• Agronomist  
• Ecologist  
• Environmental consultant  
• Food technologist  
• Horticulturist  
• Nutritionist  
• Product development coordinator | • Plant biotechnologist  
• Resource manager  
• Rural banker  
• Science communicator  
• Soil scientist  
• Vineyard manager  
• Viticulturist  
• Wine maker | • Bio-security specialist  
• Data farmer  
• Food chain specialist  
• Precision viticulturist  
• Urban agriculturist |

| **Animal and Veterinary Sciences** | • Science (Animal Behaviour)  
• Science (Animal Science)  
• Science (Veterinary Bioscience)* | • Animal health officer  
• Animal/Veterinary technician  
• Animal welfare officer  
• Behaviourist  
• Nutritionist | • Quarantine officer  
• Vet  
• Vertebrate pest manager  
• Wildlife conservationist  
• Zoo keeper | • Precision livestock breeder  
• Behaviourist in private veterinary practice  
• Behaviour trainer for assistance dogs |

| **Biomedical Science and Biotechnology** | • Science (Biomedical Science)  
• Science (Biotechnology) | • Biotechnologist  
• Clinical scientist  
• Diagnostic technician  
• Embryologist  
• Medical research scientist | • Microbiologist  
• Neuroscientist  
• Pharmaceutical scientist  
• Plant biotechnologist  
• Public health | • Bioinformatic scientist  
• Biostatistician  
• Clinical data manager  
• Genetic counsellor  
• Gene therapist |

| **Earth and Environmental Sciences** | • Science (Ecotourism)  
• Science (Marine Biology)  
• Science (Mineral Geoscience)  
• Science (Wildlife Conservation Biology) | • Ecotourism consultant  
• Environmental education instructor  
• Environmental remediation officer  
• Geochemist  
• Geologist | • Life scientist  
• Marine biologist  
• Palaeontologist  
• Research scientist  
• Seismologist  
• Sustainability specialist | • Climate change analyst  
• Big data conservation  
• Geomicrobiologist |

| **Sciences** | • Applied Biology  
• Science  
• Science (Advanced)  
• Science (High Performance Computational Physics) (Honours)  
• Science and Entrepreneurship  
• Science/Teaching  
• Science/Arts  
• Science (Space Science and Astrophysics) | • Analytical chemist  
• Botanist  
• Computational physicist  
• Econophysicist  
• Environmental biologist  
• Forensic scientist  
• Life scientist  
• Metrorologist  
• Petrophysicist | • Physicist  
• Plant biotechnologist  
• Research scientist  
• Science entrepreneur  
• Science teacher  
• Space scientist | • Biochemical engineer  
• Drone technologist  
• New science ethicist  
• Space entrepreneur |

*Please note that the Bachelor of Science (Veterinary Bioscience) is the first part of the veterinary program. Graduates gain direct entry to the Doctor of Veterinary Medicine degree and completing both degrees makes them eligible to register and practice as a veterinarian.*

Students keen to understand their preferred degree’s specific prerequisite requirements can also visit: [adelaide.edu.au/degree-finder](http://adelaide.edu.au/degree-finder)
## PREREQUISITES AND RECOMMENDED STUDY BACKGROUND

<table>
<thead>
<tr>
<th>Degree programs</th>
<th>Prerequisites (essential SACE Stage 2 subjects)</th>
<th>Assumed knowledge (recommended SACE Stage 2 background)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of:</td>
<td>None, unless students wish to major in Chemistry or Physics in which case the following Level 1 (first year) prerequisites apply.</td>
<td>• Chemistry</td>
</tr>
<tr>
<td>Science</td>
<td><strong>Chemistry major:</strong> Chemistry. (It is possible to follow a Chemistry major without meeting the prerequisite, but it is dependent on the students’ Level 1 university results.)</td>
<td>• Mathematical Methods*</td>
</tr>
<tr>
<td>Science (Advanced)</td>
<td><strong>Physics major:</strong> Physics, Mathematical Methods* and Specialist Mathematics</td>
<td>• Physics</td>
</tr>
<tr>
<td>Bachelor of:</td>
<td>Two subjects chosen from: Biology, Chemistry, Geology, Physics, Scientific Studies, General Mathematics, Mathematical Methods*, Specialist Mathematics, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition.</td>
<td>• Chemistry</td>
</tr>
<tr>
<td>Science (Mineral Geoscience)</td>
<td><strong>Mathematical Methods</strong>*</td>
<td>• Mathematical Methods*</td>
</tr>
<tr>
<td>Science (Biomedical Science)</td>
<td><strong>Chemical Methods</strong>*</td>
<td>• Physics</td>
</tr>
<tr>
<td>Bachelor of:</td>
<td>• Mathematical Methods*</td>
<td></td>
</tr>
<tr>
<td>Science (Veterinary Bioscience)</td>
<td>• Chemistry</td>
<td></td>
</tr>
<tr>
<td>Science (Biotechnology)</td>
<td>• Mathematical Methods*</td>
<td></td>
</tr>
<tr>
<td>Bachelor of:</td>
<td>• Mathematical Methods*</td>
<td>• Physics</td>
</tr>
<tr>
<td>Science (Space Science and Astrophysics)</td>
<td>*<em>Mathematical Methods</em> or Specialist Mathematics, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition.</td>
<td></td>
</tr>
<tr>
<td>Bachelor of:</td>
<td>None</td>
<td>• Chemistry</td>
</tr>
<tr>
<td>Science (High Performance Computational Physics) (Honours)</td>
<td><strong>Specialist Mathematics</strong></td>
<td>• Mathematical Methods*</td>
</tr>
<tr>
<td>Bachelor of:</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Agricultural Sciences</td>
<td>• Chemistry</td>
<td></td>
</tr>
<tr>
<td>Food and Nutrition Science</td>
<td>• Mathematical Methods*</td>
<td></td>
</tr>
<tr>
<td>Science (Animal Behaviour)</td>
<td>• Specialist Mathematics</td>
<td></td>
</tr>
<tr>
<td>Science (Animal Science)</td>
<td>• Physics</td>
<td></td>
</tr>
<tr>
<td>Science (Marine Biology)</td>
<td>• Chemistry</td>
<td></td>
</tr>
<tr>
<td>Viticulture and Oenology</td>
<td>• Mathematical Methods*</td>
<td></td>
</tr>
<tr>
<td>Bachelor of:</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Applied Biology</td>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>Science and Entrepreneurship</td>
<td>• Science (Ecotourism)</td>
<td></td>
</tr>
<tr>
<td>Science (Wildlife Conservation Biology)</td>
<td><strong>Science</strong></td>
<td></td>
</tr>
</tbody>
</table>

*If Stage 2 studies were undertaken prior to 2017, the equivalent subject was well known as Mathematical Studies.*
TOP 5 HIGHEST PAID JOBS IN ADELAIDE ARE IN STEM INDUSTRIES^$

75% OF FASTEST GROWING OCCUPATIONS REQUIRE STEM SUBJECTS*  

$5-STAR GRADUATE OUTCOME FOR STUDENT SUPPORT IN SCIENCE#

75% OF FASTEST GROWING OCCUPATIONS REQUIRE STEM SUBJECTS*

TOP 5 HIGHEST PAID JOBS IN ADELAIDE ARE IN STEM INDUSTRIES^$

5-STAR GRADUATE OUTCOME FOR STUDENT SUPPORT IN SCIENCE#
Gateway to the world

University of Adelaide science programs are designed for maximum flexibility, and with the increasingly competitive and business-aware workplace in mind. Students can explore the full length and breadth of scientific options before specialising, or join a growing generation of scientists who pair entrepreneurship with their passion for science.

Adaptable and employable

By studying alongside our leading researchers, world-class educators and industry partners, students develop the skills a professional scientist needs. Through exposure to a range of disciplines, they graduate with an adaptable mindset and the expertise to tackle critical world challenges. From improving health care today, to finding the sustainable energy solutions of tomorrow, the opportunities are endless.

A degree in science can also take graduates to unexpected places. Students establish a toolbox of transferable skills that are highly sought after in industries outside traditional scientific spheres. These include business, finance, education and communications.

What might the future look like?

It’s impossible to say exactly what the future will hold, but we know many emerging roles will be in areas we can barely imagine now. Students will be in a prime position to take advantage of these new opportunities if they start preparing themselves today.

Space entrepreneurs: space startups are on the rise. New space companies and entrepreneurs are launching their ideas into space in areas such as cloud computing, satellite design and even space travel.

Drone classification gurus: this role may apply different laws to different classifications of drone vehicles.

“IT’S EXCITING TO BE A FIRST YEAR AND ALREADY CONTRIBUTING TO RESEARCH PROJECTS AT THE FOREFRONT OF DISCOVERY.”

Lucinda Duxbury
Bachelor of Science (Advanced)
The Bachelor of Applied Biology places graduates at the forefront of advances in biology. The University of Adelaide is ranked among the top 100 universities worldwide for biological sciences, and has a 90% satisfaction rating among current applied biology students.*

The degree gives students a unique combination of theoretical learning and professional practice in applied biology. They explore the world of biodiversity and sustainable food production—essential for the survival of our planet—with major options including: Plant Product Development; Biochemistry; Genetics; and Microbiology and Immunology.

Advanced courses include placements within a relevant industry, government or research organisation. And students wishing to study abroad have the opportunity to spend a semester at an overseas university.

Student profile
- curious about life at the molecular level
- detail oriented
- loves discovering in the lab and field.

Career readiness
Our graduates find employment in many industries, including:
- research institutes and laboratories
- biotechnology companies
- agricultural and environmental organisations
- food and beverage technology
- government and regulatory offices
- intellectual property management.

Industry placement
Students undertake 300 hours of industry or research placement, developing solutions to real world problems. Flexible options allow students to complete placement in a block or single days over time.

* QILT 2017 Science and Mathematics
* QS World University Rankings by Subject 2018
BACHELOR OF SCIENCE (ADVANCED)

**SATAC CODE** 334681  
**SELECTION RANK/IB** 95.15 / 37  
**DURATION** 3 years full-time (or part-time equivalent)  
**CAMPUS** North Terrace campus  
**GUARANTEED ENTRY** 95  

**PREREQUISITES**  
None, unless applicants wish to major in Chemistry or Physics, in which case the following apply:  
- To major in Chemistry: SACE Stage 2 Chemistry.  
- To major in Physics: SACE Stage 2 Physics, Mathematical Methods* and Specialist Mathematics. It is possible to follow a Chemistry major without the Chemistry prerequisite, but it is dependent on a student’s Level 1 university results.  
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies.

**ADDITIONAL ENTRY REQUIREMENTS**  
Year 12 applicants must a Selection rank of 95 or higher (or equivalent).

**ASSUMED KNOWLEDGE**  
- SACE Stage 2 Chemistry  
- Mathematical Methods*  
- Physics  

This degree is designed for high-achieving students who want to further develop their knowledge of science, with a strong emphasis on advanced research training. The Bachelor of Science (BSc) (Advanced) lets students experience the academic and research culture of the scientific areas they’re most interested in, while still providing the choice and flexibility of a Bachelor of Science.

Students design their own degree from a broad range of study options, choosing areas that interest them. They also take part in structured research activities and seminars normally only available to honours and postgraduate students.

The degree offers lab attachments and a semester-long research placement, giving students great breadth of experience. This links students with academic staff in major research areas, and provides early access to research laboratories and projects that can be further developed for an honours year and postgraduate study (master degree or PhD).

**Science majors**  
- Biochemistry  
- Chemistry  
- Ecology  
- Evolutionary Biology  
- Genetics  
- Geology  
- Geophysics and Applied Geology  
- Microbiology and Immunology  
- Palaeontology

**Double majors**  
- Physics  
- Soil Science  
- Theoretical Physics

**Career readiness**  
- The skills acquired in the BSc (Advanced) give students the best chance of becoming a professional scientist, but are also highly transferable, and in demand in a wide range of careers outside science. These skills include: analytical methods; critical thinking and problem-solving; laboratory and field techniques; information technology and literacy skills; teamwork; initiative; and the ability to communicate and cooperate with people from a range of backgrounds and with varying expertise.

Graduates are also well prepared for a range of further study options. These include honours and higher degrees by research in their chosen science discipline, or graduate studies in areas such as nutrition, medicine, chiropractic, physiotherapy, pharmacy and teaching.

**Student profile**  
- wants to become a professional scientist.

**BACHELOR OF SCIENCE AND ENTREPRENEURSHIP**

**SATAC CODE** 334001  
**SELECTION RANK/IB** 85.85 / 31  
**DURATION** 3 years full-time (or part-time equivalent)  
**CAMPUS** North Terrace campus  
**GUARANTEED ENTRY** 75  

The Bachelor of Science and Entrepreneurship will help prepare students to succeed in—and even create—the science jobs of the future. By studying science specific entrepreneurial topics and applying science skills to real-world problems and business opportunities, students develop crucial (and in-demand) critical-thinking and problem-solving skills.

In addition to developing deep discipline knowledge in an area of science, students will spend a quarter of their time learning from industry experts in the University’s Entrepreneurship, Commercialisation and Innovation Centre. There is also an opportunity to earn course credit through taking part in the Australian eChallenge - a competition based learning experience that develops strategic business thinking for early-stage entrepreneurial ventures.

This degree is not just for students who want to become entrepreneurs, but anyone wanting to develop these skills.

**Student profile**  
- thinks outside the box  
- interested in business  
- thrives on new ideas.

**Career readiness**  
- This degree will open the door to a range of innovative career options. These include starting a new business venture in science, assisting in the commercialisation of scientific ideas and patents, or helping to grow an existing science-based company.

Other potential roles include:  
- practising scientist  
- professional consultant  
- research and development officer  
- business owner  
- technology manager.
**BACHELOR OF SCIENCE (SPACE SCIENCE AND ASTROPHYSICS)**

- **SATAC CODE**: 324101
- **SELECTION RANK/IB**: 76.8 / 27
- **DURATION**: 3 years full-time (or part-time equivalent)
- **CAMPUS**: North Terrace campus
- **GUARANTEED ENTRY**: 75

**PREREQUISITES**:
- SACE Stage 2: Physics, Mathematical Methods* and Specialist Mathematics.
- IB: Mathematics (HL grade 3) and Physics (SL grade 4/HL grade 3).
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies.

The Bachelor of Science (Space Science and Astrophysics) equips graduates to explore our universe, from the upper atmosphere of the earth to the most distant galaxies. This is the number one degree in South Australia for Astronomical and Space Sciences research, and has a 90% student satisfaction ranking*. Students learn from leaders in the fields and take part in stimulating project work with established scientists. Along with a focus on astronomy and space science, there’s an emphasis on physics. There’s flexibility to supplement learning with a choice of other science, geoscience, and mathematically-based work.

* 2015 Excellence in Research for Australia and Student Experience Survey Overall Experience Satisfaction Level 2013-2016.

**Student profile**
- curious about the universe
- thrives on solving complex problems
- has a strong imagination.

**Career readiness**

Graduates gain employment in space and astrophysical research, physics, and high-tech research and development in:
- defence agencies
- government (Bureau of Meteorology)
- national space agencies
- research institutes
- universities.

**Industry placement**

Throughout the degree, students can apply for a six-week summer scholarship at the University or other institutions around Australia, where they can undertake a research project alongside professionals. The subject, Space Science and Astrophysics II, involves students working in small groups to explore a particular aspect of astrophysics research, such as extreme astronomical objects like pulsars and supernovae.

**BACHELOR OF SCIENCE (HIGH PERFORMANCE COMPUTATIONAL PHYSICS) (HONOURS)**

- **SATAC CODE**: 324171
- **SELECTION RANK/IB**: 82.3 / 30
- **DURATION**: 4 years full-time (or part-time equivalent)
- **CAMPUS**: North Terrace campus
- **GUARANTEED ENTRY**: 90

**PREREQUISITES**:
- IB: Mathematics (HL grade 3) and Physics (SL grade 4/HL grade 3).
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies.

Enter the world of supercomputing. The Bachelor of Science (High Performance Computational Physics) (Honours) prepares students to solve cutting-edge problems at the forefront of physics. The degree teaches sophisticated, high-performance computing techniques required for the solution of high-level problems in theoretical, computational and mathematical physics. Students learn to program parallel super-computers using state-of-the-art computer languages, and gain high-demand mathematical and computational skills. And in their final-year honours program they delve into theoretical or computational physics, including through a research project.

**Student profile**
- likes solving challenging problems
- curious about the laws of the universe
- thinks analytically.

**Career readiness**

Employment opportunities exist for graduates in:
- banking
- climate and ecosystem modelling
- defence organisations
- econophysics
- government organisations
- industry and financial organisations
- physics
- scientific computing
- scientific data analysis
- universities.
In 2017 we were part of a Nobel Prize winning project that detected gravitational waves, first theorised by Albert Einstein a century ago. This discovery is expanding our knowledge of the birth and life of the universe.
AGRICULTURE, FOOD AND WINE

Pratley, JE 2012, Professional Agriculture – A Case of Supply and Demand, Australian Farm Institute Occasional Paper

* Academic Ranking of World Universities by Subject 2017
Work to sustain the planet

As technology evolves with increasing pace—and the growing global population puts pressure on food resources—the agriculture, food and wine sectors will demand innovative, tech-savvy professionals to ensure their supply can responsibly meet global demand.

Innovators highly sought after

Demand for graduates in this growing field is high, both locally and internationally. Whether it’s pioneering new food production methods in urban areas, helping to satisfy the growing appetite for our world-famous wine, or becoming an innovator in the commercial world of food, there are countless opportunities for graduates to explore.

Degrees in agriculture, food and wine sciences combine the theoretical with a healthy dose of practical, hands-on application; ideal for those looking for a strong connection with industry throughout their training.

Through an international network of academic and commercial collaborators, and co-location with government and industry partners, students are exposed to the latest technologies and gain cutting-edge insight from leaders in their field.

Waite campus

The Waite campus is the largest agricultural research institute in the Southern Hemisphere. It is home to South Australia’s only agricultural sciences and viticulture and oenology (wine science) degrees, a number of research partners and the internationally renowned Waite Research Institute. Staff and students work closely with these organisations, providing a unique opportunity for collaboration on national and international research projects.

What might the future look like?

Urban agriculturalists: instead of shipping around the world, the next generation of agriculturalists might look to cities and underground to grow produce and sell directly to customers.

Precision viticulturists: by using new technology, viticulturists are able to maximise grape harvest and quality, while minimising environmental risk and impact.

“The Bachelor of Food and Nutrition Science is the best in South Australia for food and nutrition. The degree included so many varied industry experiences, from cheese making to food processing, which other universities do not offer.”

Annemare Crammond
Bachelor of Food and Nutrition Science
For students looking to join the booming agricultural industry—on average, there are five jobs available for every agriculture graduate in Australia\*—the University of Adelaide’s Bachelor of Agricultural Sciences degree ranks among the top 40 in the world.\* Students study at the Waite and Roseworthy campuses alongside government and industry partners, and utilise the latest research, innovation and technology. They discover the physical, biological, technological and economic bases of modern agricultural systems, and learn to manage diverse agricultural systems and natural resources.

**Student profile**
- likes gathering data
- has strong analytical skills
- interested in economics.

**Career readiness**
Within just a few months of graduation, 91% of our Bachelor of Agricultural Sciences graduates find full-time employment.\* They are highly sought after for a diverse range of roles, including:
- advisory and regulatory services
- agricultural and business consulting
- agricultural production and agronomy
- banking and rural finance
- managing commercial enterprises
- journalism, communication and marketing
- research and technical work
- secondary, tertiary and vocational education.

**Industry placement**
We offer industry work experience (a total of 12 weeks, or 450 hours) during university vacations, and students go on numerous field trips in their first and third years. There will be opportunities for field trips to south-east South Australia and Queensland; and international trips to countries such as China and India.

\* Academic Ranking of World Universities by Subject 2017
\# Pratley, JE 2012, Professional Agriculture – A Case of Supply and Demand, Australian Farm Institute Occasional Paper
\^ Bachelor of Agricultural Sciences (QILT Outcome Results by Program 2014-2016)
“THE UNIVERSITY HAS PROVIDED ME WITH A HIGH QUALITY ACADEMIC EXPERIENCE AND A FANTASTIC STUDENT EXPERIENCE. I HAVE HAD ACCESS TO WORLD-CLASS FACILITIES ON ALL THREE CAMPUSES, SPENT A SEMESTER IN CANADA AND HAVE MADE LIFELONG FRIENDS.”

Rhys Muller  Bachelor of Agricultural Science
BIOMEDICAL SCIENCE AND BIOTECHNOLOGY

90% INCREASE IN BIOTECHNOLOGY JOBS OVER PAST 10 YEARS\(^\ast\)

100 TOP 100 IN WORLD FOR BIOLOGICAL SCIENCES\(^\ast\)

HOME TO AUSTRALIA’S FIRST GENOME EDITING FACILITY

\(^\ast\) QS World University Rankings by Subject 2018
\(^\circ\) biotechinstitute.org 2017
Discovery at the leading edge of technology

With access to world-class training from leading researchers, and some of the most advanced technology in the Southern Hemisphere, students graduate ready to join one of the fastest growing sectors in the world.

There is high demand for talented and experienced professionals in these fields. Their work will have the potential for enormous human impact, both on individual lives and society as a whole.

Acclaimed research in a range of areas is conducted at the University by staff from around the globe. Our researchers—the same people who teach our students—are in pursuit of potential cures for major diseases, such as cancer, and exploring how biological processes function at a molecular level. These pioneering scientists are also developing, and teaching with, some of the most advanced technology in the Southern Hemisphere, such as the CRISPR gene editing technology—the first genome editing facility in Australia.

What might the future look like?

Nano-medics: health issues can often be traced to a single cell or a small group of them. Professionals capable of working at the nano-level of diagnostics and treatments are likely to be in high demand.

Body part and limb makers: there is scope to discover how to efficiently grow and mass produce our own organs from scratch.

“MY DEGREE TAUGHT ME THE INTERPERSONAL SKILLS AND ACADEMIC KNOWLEDGE TO TAKE MY SCIENCE CAREER IN ANY DIRECTION AND FIELD I WANTED. I AM NOW AN INTENSIVE CARE CLINICAL RESEARCH SCIENTIST AT THE ROYAL ADELAIDE HOSPITAL.”

Luke Weinel
Studied Molecular Biology
Clinical Research Scientist, Intensive Care Research Department, Royal Adelaide Hospital
### Bachelor of Science (Biomedical Science)

<table>
<thead>
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<td>314091</td>
<td>65.15 / 24</td>
<td>North Terrace campus</td>
<td>70</td>
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**Prerequisites**
- SACE Stage 2: Chemistry plus one of Physics, Mathematical Methods*, Specialist Mathematics, General Mathematics, Biology, Geology, Scientific Studies, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition.
- IB: Chemistry (SL grade 4/HL grade 3) and one other science subject (SL grade 4/HL grade 3) or Mathematics (SL grade 4/HL grade 3).

*If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies.

**Assumed Knowledge**
- SACE Stage 2 Mathematical Methods*
- Physics

With biomedical science and biotechnology

The Bachelor of Science (Biomedical Science) enables students to apply their passion for science to the health and medical industry, and enter an emerging global sector. Students gain real-world practical insights from industry lecturers and placements, and learn from world-class biomedical researchers and educators—Adelaide ranks among the top 100 universities in the world for biological sciences and the best in South Australia.* The degree focuses on the biomedical aspects of biology, including the normal and abnormal function of the human body. Students also undertake research projects as an introduction to modern biomedical research.

### Areas of Specialisation
- Biochemistry
- Genetics
- Microbiology and Immunology

### Student Profile

- interested in the science of health
- likes lab work
- curious about life at the molecular level.

### Career Readiness
Graduates have the knowledge and experience for rewarding careers in biomedical research. They’re likely to be found as scientists in:
- clinical or research laboratories in hospitals, research institutes, universities or private companies
- biomedical, biotechnology and pharmaceutical industries.

Many graduates also pursue further study in graduate-entry medicine or allied health programs.

### Industry Placement
Depending on their major, students may conduct some or all of their practical work through placement in a professional research laboratory in third year.

*QS World University Ranking by Subject Biological Sciences 2018.

### Bachelor of Science (Biotechnology)

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<td>314691</td>
<td>86.45 / 31</td>
<td>North Terrace campus</td>
<td>76</td>
</tr>
</tbody>
</table>

**Prerequisites**
- SACE Stage 2: Mathematical Methods* and Chemistry.
- IB: Mathematics (SL grade 4/HL grade 3) and Chemistry (SL grade 4/HL grade 3).

*If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies.

With biotechnology developing rapidly and experts predicting it will greatly change our lives, the Bachelor of Science (Biotechnology) catapults graduates to the industry’s leading edge. Students discover advanced technologies—such as protein separation, genomics and proteomics—to produce foods, drugs and other products. They learn in our dedicated teaching laboratories, equipped with state-of-the-art specialist equipment. And they do so alongside expert scientists and professional researchers. The degree covers both the molecular basis for biotechnology, and the bioprocess technology underpinning the development of its products. Students learn about molecular biology, animal, plant and microbial biotechnology, structural biology and bioprocess engineering. They also benefit from a unique cross-disciplinary approach, which incorporates science, engineering, and computer and mathematical sciences.

### Areas of Specialisation
- Molecular Biotechnology

### Student Profile

- thrives on collaboration
- good attention to detail
- likes being innovative.

### Career Readiness
Graduates are well equipped for careers in:
- biomedical biotechnology, medical diagnostics and vaccine discovery
- development of genetically modified organisms
- ethics and regulatory organisations
- innovative and laboratory research science
- management of biotechnology industries and enterprises
- patent law (with appropriate qualifications)
- pharmaceutical industries
- plant and animal breeding and improvement.

### Industry Placement
Students may have the opportunity to undertake international study opportunities, such as investigating biotechnology in Seoul, South Korea.
LEADING RESEARCHER

South Australian Scientist of the Year 2017, Professor James Paton, is a leading international researcher in the causes of infectious diseases. His research is focused on the fundamental molecular interactions between disease-causing bacteria and their hosts, and development of novel vaccines and therapeutics.
#1 IN SOUTH AUSTRALIA FOR GRADUATE CAREERS IN ENVIRONMENTAL STUDIES

100 TOP 100 WORLD RANKING FOR EARTH SCIENCES

#1 IN SOUTH AUSTRALIA FOR EARTH SCIENCES RESEARCH

EARTH AND ENVIRONMENTAL SCIENCES

^ Graduate Outcomes Survey, 2016
* QS World University Rankings by Subject 2018
** 2015 Excellence in Research for Australia (ERA)
Driven by the thrill of discovery
From exploring our planet’s deep mantle to explaining the evolution of life in its many forms, earth and environmental sciences deepen our understanding of the world, and our place in it.

Satisfy the urge to understand why
We grapple with complex questions about the structure of ecosystems, human impacts on their inhabitants and the environmental challenges that lay ahead.

We prepare the next generation of science professionals to become environmental advocates, committed to building a sustainable future for our planet.
We also lead internationally significant environmental research through the Environment Institute, situated on-campus. Our research into areas such as ancient DNA, conservation, marine biology and water management is helping to find new approaches to global environmental problems.

What might the future look like?
Big data wildlife conservation: scientists are starting to combine conservation with technology to interpret large amounts of data and identify wildlife threats before they happen, or even uncover ways to prevent them.
Atmospheric water harvesters: water innovators who may be able to solve one of society’s biggest problems.

“I CHOSE ADELAIDE BECAUSE OF THE SCIENCE FACILITIES AVAILABLE AND REPUTATION OF THE UNIVERSITY. I ENJOY THE LEARNING COMMUNITY AT THIS UNIVERSITY, AND ENGAGING WITH MY PEERS ON A DAILY BASIS.”

Sarah Watzdorf, Bachelor of Science
The Bachelor of Science (Ecotourism) enables students to channel their scientific curiosity and passion for being outdoors into a highly rewarding career. Ecotourism is an emerging area, with growing employment opportunities nationally and internationally. Globally, nature-based tourism now accounts for around 20% of total international travel* and is predicted to grow 10–12% per year**. The University of Adelaide is number one in South Australia for careers in environmental studies, and graduates of this degree possess the skills and scientific expertise their industry demands*. They’re able to develop content and tours that describe the natural environment and support visitor enjoyment, as well as advise government, industry and the broader community. Students blend study in traditional science (including biology and geology) and can specialise in Geotourism or Nature Based Tourism.

Student profile
- loves the outdoors
- enjoys working with people
- passionate about sharing science.

Career readiness
Graduates find employment in local and national government, major tourism bodies and the private sector, or establish their own tourism business. Their roles may include:
- developing community-based tourism programs
- assessing the potential for ecotourism products
- providing advice on the design and construct of nature trails
- providing education and interpretation.

Industry placement
Students studying their final semester work in collaboration with relevant industry/government/communities to undertake a research project on the ecotourism potential of an area. Projects may involve site visits, field work, and work placements.

^ QS Ranking by Subject 2018.

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Marine biology is all about the largest and most diverse ecosystem on the planet—the sea. The Bachelor of Science (Marine Biology) specifically prepares graduates for work on temperate seas, those from the Antarctic to sub-tropical regions, as this is the area of greatest professional demand. Students have access to staff who are nationally and internationally acclaimed for research excellence, and there is a strong emphasis on experiential learning. Field experience is extensive, with access to advanced equipment used in pioneering research across the world. The first year involves core studies in biology, geology and statistics. In subsequent years students study ecological and evolutionary biology, which includes marine biology, coastal management, and specialised research methodology.

Student profile
- has a questioning mind
- likes working alone and as part of a team
- passionate about marine life and conservation.

Career readiness
The Bachelor of Science (Marine Biology) degree prepares graduates up for employment with:
- conservation groups
- consultancy firms
- councils
- environmental protection agencies
- state governments
- university research laboratories
- water authorities.

Industry placement
Students gain practical experience by taking part in numerous field trips throughout South Australia. There is also the chance to undertake international field trips to Timor-Leste and China.

---

The Bachelor of Science (Mineral Geoscience) prepares students for a fascinating, well paid and diverse career, with opportunities to travel all over the world. Mineral geoscience relates to the earth’s mineral resources—their nature, origin, distribution, discovery and exploitation—and graduates with expertise in this area are in high demand within the mineral resources sector. The degree integrates and extends courses in geology and geophysics, mining engineering, geography and environmental studies, chemistry, mathematics and physics; and it prepares students for entry into an honours degree in geology.

Student profile
- interested in the past and predicting the future
- likes a mix of lab and field work
- keen sense of observation.

Career readiness
Graduates find employment in:
- petroleum industry
- geology or geophysics
- geothermal exploration industries
- environmental geoscience industries
- government agencies
- mineral exploration industries worldwide
- remote sensing and computer imaging.

Industry placement
Students may choose to undertake international study opportunities. These include travelling with a tour guide to remote areas and exploring the world’s best-preserved piece of intact oceanic crust as part of the Oman Geology Study Tour.
The Bachelor of Science (Wildlife Conservation Biology) gives graduates the skills and qualifications to make a real difference to our planet. Biodiversity management is an increasingly important issue, and there’s growing demand for skilled experts who understand how to solve its challenges.

The degree offers the opportunity to specialise in wildlife conservation biology while also gaining a broad education in ecology and evolutionary biology. Students gain a combination of theory and practical experience in landscape ecology, wildlife genetics, endangered species biology and pest management.

Unique, real-world experiences are frequent, including in meaningful field work linked to current long-term research and monitoring programs.

**Student profile**
- cares about our world and its wildlife
- loves the outdoors
- has strong observational skills.

**Career readiness**
Graduates are well prepared for careers in the growing number of organisations that employ wildlife conservation practitioners and researchers, including:
- environmental consultancies for businesses in the primary industry sector
- non-government conservation and wildlife organisations
- government and regulatory offices
- academic research and teaching institutions.

**Industry placement**
Students will spend five days in the field at the multi-award-winning Arid Recovery wildlife reserve near Roxby Downs, learning to trap, handle and record data on small mammals and reptiles.

In third year students undertake a field-based research project.
ANIMAL AND VETERINARY SCIENCES

** Academic Ranking of World Universities by Subject 2017
* Good Universities Guide 2018
World-class expertise in global fauna
At the University of Adelaide, animal and veterinary sciences students learn with a team of internationally renowned academics who collectively bring a wealth of research knowledge and teaching capability. Students gain practical skills in the field and in our purpose-built veterinary teaching and research clinic.

Hands-on experience
The knowledge imparted in animal and veterinary science degrees spans a remarkable range of subjects, from the molecular genetics of livestock to equine reproduction. Students are introduced to cutting-edge ideas. They learn how to think critically. And they develop the hands-on skills needed to put their knowledge to work across a wide range of animal-based disciplines.

Career flexibility
In-depth knowledge in animal and veterinary sciences is central to industries such as food production, conservation, and agriculture—one of Australia’s fastest growing sectors. Graduates are also well equipped to explore emerging disciplines that tackle global issues, such as biosecurity, sustainable production systems, and diseases that affect endangered species.

Roseworthy campus
Roseworthy campus is an internationally recognised centre for excellence in dryland agriculture, natural resource management and animal production. Set on over 1,500 hectares of land for practical training, it’s home to South Australia’s only veterinary school and a $37 million vet clinic, where students can gain clinical experience while studying.

“I LOVED THE PRACTICAL WORK WE DID ALONGSIDE EXPERTS IN THE FIELD AND OPPORTUNITIES TO HELP WITH RESEARCH. I USE KNOWLEDGE I GAINED FROM MY DEGREE REGULARLY IN MY CAREER AS A ZOOKEEPER.”
Michelle Birkett
Bachelor of Science (Animal Science)
Zookeeper, Adelaide Zoo

What might the future look like?

Precision livestock breeders: using 3D imaging (accurate to within millimetres) breeders will be able to monitor livestock body condition and optimise management decisions.

Animal migration engineers: natural habitats have been significantly impacted by the spread of human civilisation. This role may help to identify which species migrate, where they migrate to, and help facilitate migration.
BACHELOR OF SCIENCE (ANIMAL BEHAVIOUR)

Why do cats meow? Why do some dogs bite? Are parrots smart? And why do some animals live in large groups? If questions like these spark your curiosity, then the Bachelor of Science (Animal Behaviour) is for you.

Animal behaviour is a specialist field that informs how we manage and treat animals. It even forms part of our understanding of human behaviour through commonalities in biology and genetics.

Graduates are well suited to careers working with both wildlife and companion animals – an industry estimated to be worth $12 billion a year in Australia. The forecast is for growth too, with opportunities for Animal Attendants and Trainers estimated to increase by 11.5% by the year 2022.*

This program draws upon our outstanding expertise in the field of animal science and veterinary bioscience at the internationally renowned Roseworthy campus, with complementary studies in psychology.

There is also a strong practical element to the degree, with opportunities for industry experience, field work and study tours.

**Student profile**
- curious about behaviour
- loves animals
- is analytical.

**Career readiness**

There is a growing understanding that behaviour (both human and animal) is key to a wide range of areas, including policy, economics, law enforcement and resource management. Employment opportunities exist in the following areas:
- shelters and welfare organisations
- private animal training
- zoos and wildlife parks
- animal management for government agencies
- research
- education.

Industry placement

Students will have the opportunity to engage with industry through numerous events and take part in a 13-week industry research project, which includes site visits, field work and placements.


BACHELOR OF SCIENCE (ANIMAL SCIENCE)

Why do cats meow? Why do some dogs bite? Are parrots smart? And why do some animals live in large groups? If questions like these spark your curiosity, then the Bachelor of Science (Animal Science) is for you.

The Bachelor of Science (Animal Science) equips students to turn their passion for animals into a successful career. A broad range of animal science courses are available to choose from, covering livestock, horses, wildlife, companion animals and laboratory animals, with topics including organisms, nutrition, behaviour and animal health.

Graduates are well prepared for careers in:
- government agencies
- livestock and agricultural management
- livestock production and nutrition
- private companies
- research institutes and centres
- government agencies
- vertebrate pest management
- wildlife conservation
- zoos and animal welfare organisations.

**Student profile**
- loves animals
- thinks analytically
- likes a mix of lab and field work.

**Career readiness**

Graduates are well prepared for careers in:
- government agencies
- livestock and agricultural management
- livestock production and nutrition
- private companies
- research institutes and centres
- government agencies
- vertebrate pest management
- wildlife conservation
- zoos and animal welfare organisations.

**Industry placement**

Students are encouraged to undertake work placements in relevant industries. They can choose to complete 12 weeks or 450 hours of professional work experience as part of the program.

* Student Experience Survey Overall Experience Satisfaction Level 2013-2016.
BACHELOR OF SCIENCE (VETERINARY BIOSCIENCE)

SATAC CODE
324491

SELECTION RANK /IB
minimum academic threshold
is 90 / minimum academic
threshold of 33

DURATION
3 years full-time
(or part-time equivalent)

CAMPUS
North Terrace and Roseworthy campuses

GUARANTEED ENTRY

PREREQUISITES
• SACE Stage 2: Mathematical Methods*, Chemistry.
• IB: Mathematics (SL grade 4/HL grade 3) and
Chemistry (SL grade 4/HL grade 3).
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies

ADDITIONAL ENTRY REQUIREMENTS
Applicants must complete a written questionnaire
and undergo an interview (if offered). Applicants
will also be required to acknowledge their
understanding of the Inherent Requirements and
Vaccination Guidelines. These documents can be
found under ‘useful links’ by searching this degree
on Degree Finder.

ASSUMED KNOWLEDGE
SACE Stage 2 Physics

This is the first part of the veterinary
program, which is comprised of two
degrees; Bachelor of Science (Veterinary
Bioscience) and Doctor of Veterinary
Medicine. Graduates gain direct entry into
the Doctor of Veterinary Medicine upon
successful completion of the Veterinary
Bioscience degree, and by completing both
degrees graduates are eligible to register
and practice as a veterinarian.

The veterinary science degree has a Five
Star Excellence in Research Australia
ranking in Veterinary Sciences, and is
ranked 79 in the world for Life Sciences
and Medical degrees#. Students will enjoy
the smallest class size of any veterinary
degree in Australia, giving them more
personalised attention, and benefit from a
unique cross-disciplinary approach. Science
topics such as biochemistry and physiology
are complemented with topics in business
topics in business enterprise and communication.

Students gain significant hands-on practice
in real clinical and industry settings,
including farms, intensive production
facilities and veterinary practices, both
in Australia and overseas.

Student profile
• compassion for animals
• clear communicator
• likes solving challenging problems.

Career readiness
Graduates find employment opportunities in:
• government agencies
• livestock and agricultural management
• livestock production and nutrition
• private companies
• zoos and animal welfare organisations.

As a graduate of the postgraduate degree,
they find employment in private and public
veterinary practices as a veterinarian.

Professional accreditation
The veterinary science program is
comprised of two degrees: the Bachelor of
Science (Veterinary Bioscience) and the
Doctor of Veterinary Medicine (Masters by
Coursework (Extended)). To practise as a
veterinarian, students must complete both
degrees, taking six years in total.

The veterinary science program at the
University of Adelaide is accredited by the
Australasian Veterinary Boards Council
(AVBC), the Veterinary Surgeons’ Board
of Hong Kong and the Royal College of
Veterinary Surgeons (UK). This means
when students graduate from the Masters
they are eligible for registration as a
veterinarian in Australia, New Zealand,
South Africa, Singapore, the United
Kingdom and Hong Kong.

Industry placement
Students undertake several placements,
at locations such as farms and intensive
production facilities. Placements can often
be undertaken throughout Australia, but
overseas placements are also possible,
pending approval.

Students must complete 12 weeks of Animal
Husbandry Extra Mural Studies (AHEMS)
during the University vacations. This
includes specific requirements for gaining
experience with particular groups of
animals, especially cattle, sheep and horses.

Some courses have further requirements
for extra mural experience.

# 2015 Excellence in Research for Australia and QS
Stars QS World University Rankings by Broad
Subject Area 2018.
## RELATED AND DOUBLE DEGREES

### DOUBLE DEGREES

#### BACHELOR OF ARTS WITH BACHELOR OF SCIENCE

<table>
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<tr>
<th>SATAC CODE</th>
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</table>

This double degree provides incredible scope for students to follow their emerging interests and scientific curiosity, with 39 science and arts majors available. Students become skilled in the scientific method of experimentation and research, and build a strong foundation of scientific knowledge within their chosen area. The BA links with the human element and impact of the science learning. Students grow to become innovative and creative thinkers, with powerful communication skills, ready for an exciting and diverse range of careers.

#### BACHELOR OF LAWS AND BACHELOR OF SCIENCE

<table>
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<tr>
<th>SATAC CODE</th>
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<td>95 / 37</td>
<td>5 years</td>
<td>North Terrace campus</td>
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#### BACHELOR OF ENGINEERING (HONOURS) WITH BACHELOR OF SCIENCE

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<td>Various search Degree Finder</td>
<td>5 years full-time (or part-time equivalent)</td>
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<tr>
<th>PREREQUISITES</th>
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<tr>
<td>Various search Degree Finder</td>
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</tbody>
</table>

This suite of double degrees combine various disciplines of engineering and science, allowing students to study two degrees simultaneously. By combining these complementary areas of study, graduates can have a more diverse experience at university, broaden their career prospects, and again a competitive edge in the job market. The Bachelor of Engineering (Honours) combinations that may be paired with the Bachelor of Science:

- Chemical*
- Civil
- Electrical and Electronic**
- Environmental
- Mechanical
- Mining
- Petroleum#

* Available for both Bachelor of Science or Bachelor of Science (Biotechnology)

** Only available with a Physics major. This is a combined degree not a double degree.

# Only available with a double major in Geology and Geophysics, and Applied Geology. The double degree can only be undertaken with the Bachelor of Engineering (Honours) (Petroleum) without Engineering majors.

### RELATED DEGREES

#### BACHELOR OF HEALTH AND MEDICAL SCIENCES

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<th>SATAC CODE</th>
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#### BACHELOR OF COMPUTER SCIENCE

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#### BACHELOR OF MATHEMATICAL SCIENCES

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#### BACHELOR OF LIBERAL ARTS AND SCIENCES

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</tbody>
</table>
A GLIMPSE OF YOUR FUTURE

OPEN DAY SUNDAY 12 AUGUST 2018

Attend information talks to learn about studying at university and the degrees we offer. Take part in interactive activities and chat with current students and academic staff about your interests. Visit our website to find the latest information.

adelaide.edu.au/openday
## UNDERGRADUATE DEGREE INDEX

Students with strong interests in more than one area of study may wish to consider a double or combined degree.

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<tr>
<td>Bachelor of Accounting</td>
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<tr>
<td>Bachelor of Accounting and Corporate Finance</td>
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<tr>
<td>Bachelor of Architectural Design</td>
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<tr>
<td>Bachelor of Business Management</td>
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<tr>
<td>Bachelor of Business Management and Accounting</td>
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<tr>
<td>Bachelor of Business (Global)</td>
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<tr>
<td>Bachelor of Commerce</td>
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<tr>
<td>Bachelor of Corporate Finance</td>
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<tr>
<td>Bachelor of Economics</td>
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<tr>
<td>Bachelor of Economics (Advanced)</td>
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<tr>
<td>Bachelor of Finance</td>
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<tr>
<td>Bachelor of Innovation and Entrepreneurship</td>
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<td>Bachelor of International Business</td>
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<td>Bachelor of Laws</td>
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<td>Bachelor of Marketing</td>
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<td>Bachelor of Project Management</td>
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<tr>
<th>Arts</th>
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<tbody>
<tr>
<td>Bachelor of Arts</td>
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<tr>
<td>Bachelor of Arts (Advanced)</td>
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<tr>
<td>Bachelor of Creative Arts</td>
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<tr>
<td>Bachelor of Criminology</td>
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<tr>
<td>Bachelor of Environmental Policy and Management</td>
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<td>Bachelor of International Development</td>
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<tr>
<td>Bachelor of International Relations</td>
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<tr>
<td>Bachelor of Languages</td>
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<tr>
<td>Bachelor of Liberal Arts and Sciences</td>
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<tr>
<td>Bachelor of Media</td>
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<tr>
<td>Bachelor of Music</td>
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<tr>
<td>Bachelor of Music (Advanced)</td>
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<tr>
<td>Bachelor of Music Theatre</td>
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<tr>
<td>Bachelor of Peace and Conflict Studies</td>
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<tr>
<td>Bachelor of Philosophy, Politics and Economics</td>
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<tr>
<td>Bachelor of Social Sciences</td>
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<tr>
<td>Bachelor of Sociology</td>
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<tr>
<td>Bachelor of Teaching (Middle) with Bachelor of Arts</td>
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<tr>
<td>Bachelor of Teaching (Secondary) with Bachelor of Arts</td>
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<tr>
<td>Bachelor of Teaching with Bachelor of Economics</td>
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<tr>
<td>Bachelor of Teaching with Bachelor of Mathematical and Computer Sciences</td>
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<tr>
<td>Bachelor of Teaching (Secondary) with Bachelor of Music</td>
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<tr>
<td>Bachelor of Teaching with Bachelor of Science</td>
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<tr>
<td>Diploma in Arts</td>
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<td>Diploma in Languages</td>
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<tr>
<td>Diploma in Music</td>
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<tr>
<td>Diploma in Music (Commercial Music and Songwriting)</td>
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<td>Diploma in Music (Music Production)</td>
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<tr>
<th>Engineering, Computer and Mathematical Sciences</th>
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<tbody>
<tr>
<td>Bachelor of Computer Science</td>
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<tr>
<td>Bachelor of Computer Science (Advanced)</td>
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<tr>
<td>Bachelor of Engineering (Honours) (Architectural and Structural)</td>
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<tr>
<td>Bachelor of Engineering (Honours) (Chemical)</td>
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<tr>
<td>Bachelor of Engineering (Honours) (Civil)</td>
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<td>Bachelor of Engineering (Honours) (Electrical and Electronic)</td>
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<tr>
<td>Bachelor of Engineering (Honours) (Environmental)</td>
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<td>Bachelor of Engineering (Honours) (Mechanical)</td>
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<td>Bachelor of Engineering (Honours) (Mining)</td>
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<td>Bachelor of Engineering (Honours) (Petroleum)</td>
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<tr>
<td>Bachelor of Engineering (Honours) (Petroleum) with majors</td>
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<td>Bachelor of Engineering (Honours) (Software)</td>
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<tr>
<td>Bachelor of Engineering (Honours) – Flexible Entry</td>
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<tr>
<td>Bachelor of Engineering (Honours) – Engineering Pathway</td>
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<tr>
<td>Bachelor of Mathematical Sciences</td>
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<tr>
<td>Bachelor of Mathematical Sciences (Advanced)</td>
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<tr>
<td>Bachelor of Mathematical and Computer Sciences</td>
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<tr>
<th>Health</th>
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<tbody>
<tr>
<td>Bachelor of Dental Surgery</td>
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<tr>
<td>Bachelor of Health and Medical Sciences</td>
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<tr>
<td>Bachelor of Health and Medical Sciences (Advanced)</td>
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<tr>
<td>Bachelor of Medicine and Bachelor of Surgery</td>
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<tr>
<td>Bachelor of Nursing</td>
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<td>Bachelor of Oral Health</td>
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<td>Bachelor of Psychological Science</td>
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<tr>
<th>Sciences</th>
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<tbody>
<tr>
<td>Bachelor of Agricultural Sciences</td>
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<tr>
<td>Bachelor of Applied Biology</td>
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<tr>
<td>Bachelor of Food and Nutrition Science</td>
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<tr>
<td>Bachelor of Science</td>
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<tr>
<td>Bachelor of Science (Advanced)</td>
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<tr>
<td>Bachelor of Science (Animal Behaviour)</td>
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<tr>
<td>Bachelor of Science (Animal Science)</td>
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<tr>
<td>Bachelor of Science (Biomedical Science)</td>
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<tr>
<td>Bachelor of Science (Biotechnology)</td>
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<td>Bachelor of Science (Ecotourism)</td>
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<tr>
<td>Bachelor of Science (High Performance Computational Physics)</td>
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<td>Bachelor of Science (Marine Biology)</td>
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<tr>
<td>Bachelor of Sciences (Mineral Geoscience)</td>
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<td>Bachelor of Science (Space Science and Astrophysics)</td>
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<tr>
<td>Bachelor of Science (Veterinary Bioscience)</td>
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<tr>
<td>Bachelor of Science (Wildlife Conservation Biology)</td>
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<td>Bachelor of Science and Entrepreneurship</td>
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<tr>
<td>Bachelor of Viticulture and Oenology</td>
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For a comprehensive list of available degrees, visit: [www.adelaide.edu.au/degree-finder](http://www.adelaide.edu.au/degree-finder)
How to apply
Applications to University of Adelaide undergraduate programs are made online via SATAC. [www.satac.edu.au](http://www.satac.edu.au)

The application early closing date for 2019 entry is 28 September 2018. Bachelor of Medicine and Bachelor of Dental Surgery applicants should refer to the UMAT website for information on the Undergraduate Medicine and Health Sciences Admissions Test, including application and test dates: [umat.acer.edu.au](http://umat.acer.edu.au)

International students should refer to: [www.international.adelaide.edu.au/apply](http://www.international.adelaide.edu.au/apply)

Entry pathways
There are many pathways applicants can take to apply to the University of Adelaide, including SACE, International Baccalaureate (IB), STAT, TAFE, preparatory programs, foundation study and more. To find out more about the available pathways, visit [www.adelaide.edu.au/study/undergraduate/entry-pathways](http://www.adelaide.edu.au/study/undergraduate/entry-pathways)

Fees and costs
In 2018, student contributions for Commonwealth-supported students studying an equivalent full-time study load were as follows.

**Band 1:**
- humanities, behavioural sciences, social studies, foreign languages, visual and performing arts, education, nursing, clinical psychology... $6,444

**Band 2:**
- computing, built environment, allied health, other health, engineering, surveying, agriculture, science, mathematics, statistics... $9,185

**Band 3:**
- law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce... $10,754

These annual fees are indicative only as actual charges are determined at the course level based on the area of study. Fees may increase in 2019.

HECS Higher Education Loan
This program, known as HECS-HELP, assists eligible students to pay their student contribution. Further information is available at: [www.studyassist.gov.au](http://www.studyassist.gov.au)

Scholarships
The University of Adelaide has a range of scholarships available to students from a variety of backgrounds and academic levels. Comprehensive information about scholarships, and how to apply, can be obtained by contacting us (refer below for details) or visiting the scholarships website: [www.adelaide.edu.au/scholarships](http://www.adelaide.edu.au/scholarships)

Student services and amenities fee
Students are charged an annual student services and amenities fee (SSAF) to assist with the funding of student services and amenities at the University. In 2018, the SSAF amount for full-time students was $298, and for part-time students it was $223. Fees may increase in 2019. Eligible students may defer this fee to an SA-HELP loan. For further information about the SSAF and SA-HELP visit: [www.adelaide.edu.au/student/finance](http://www.adelaide.edu.au/student/finance) and select ‘Other Fees and Charges’.

Additional costs
Students may be required to pay for specialist equipment, reading materials, etc. Students are advised not to purchase any equipment until they receive their faculty/school handbook, available during orientation. For more information on other program-related fees and charges, visit [www.adelaide.edu.au/student/finance](http://www.adelaide.edu.au/student/finance) and select ‘Other Fees and Charges’.

Adjustment factors (also known as bonus points)
SATAC centrally administer a South Australian Universities Bonus Scheme. The two schemes are the SA Universities Equity Scheme and the SA Language, Literacy and Mathematics Bonus Scheme. For more details, please visit [www.adelaide.edu.au/study/undergraduate/how-to-apply/bonus-points](http://www.adelaide.edu.au/study/undergraduate/how-to-apply/bonus-points)

Degree intake
Many undergraduate degrees will allow students to begin study in February or July. Please refer to individual degrees on Degree Finder [www.adelaide.edu.au/degree-finder](http://www.adelaide.edu.au/degree-finder) to check whether midyear entry is available. Where Degree Finder states ‘subject to availability’ applicants should contact [www.adelaide.edu.au/student/enquiries](http://www.adelaide.edu.au/student/enquiries) to check whether midyear entry is available.

Deferring your studies
All undergraduate degrees can be deferred for up to two years. Please refer to specific degrees for exceptions.

English language requirements for international students
All international students undertaking an Australian Year 12 program are required to achieve a Pass grade or above in one of the approved English as a Second Language or English language subjects. If an applicant attempts, but does not pass, the English language subject then alternative options, such as an acceptable English language proficiency test result, may be arranged. Details of recognised subjects, tests and requirements are available by visiting [www.international.adelaide.edu.au/apply](http://www.international.adelaide.edu.au/apply)

Successful completion of the International Baccalaureate (IB) diploma meets the English language requirements of the University of Adelaide.

Permanent residency
International students who have studied an Australian Year 12 program or the IB and expect to be granted Australian permanent residency before the commencement of their university study must contact the International Admissions Service.

To contact the International Admissions Service for more information, visit [www.international.adelaide.edu.au/enquire-now](http://www.international.adelaide.edu.au/enquire-now)

Accommodation
The University understands that finding the right accommodation is important to successful study. For accommodation options and costs please visit: [www.adelaide.edu.au/ Accommodation](http://www.adelaide.edu.au/Accommodation)

Admissions Transparency
We believe in providing clear and relevant information to help students choose the best university and degree to study. Find out more, visit [www.adelaide.edu.au/study/undergraduate/admission-transparency-data](http://www.adelaide.edu.au/study/undergraduate/admission-transparency-data)
More information

Answer your questions using our online Knowledge Base or our helpful staff can respond to your enquiries via email.