WHY THE UNIVERSITY OF ADELAIDE?

Education that enlightens

Studying with South Australia’s highest ranked university—consistently placed among the world’s top 1%—equips students to be tomorrow’s leaders.

Having learnt from, and with, teachers and researchers who are themselves international leaders in their fields, our graduates are highly regarded and professionally recognised around the globe. What’s more, they’re well prepared to take advantage of the opportunities this recognition can bring; with a complementary emphasis on practical career skills, we’re also the state’s leading university for graduate employability*.

Our long and proud tradition instils confidence in our students. We are Australia’s third-oldest university and have a history of excellence in education spanning more than 145 years.

We are distinguished by a commitment to equality and an ongoing focus on delivering outstanding research for the benefit of society. The University has played key roles in many of the world’s important discoveries and advancements, and our alumni have contributed significantly to shaping the educational, political and social arenas of their day.

At the University of Adelaide, students are taught, supported and inspired to be everything they can be.

* QS Graduate Employability Ranking 2020.
It’s an exciting time to embark on study in science.

Already one of the world’s fastest growing sectors, science is predicted to bring more human progress in the next 50 years than the last 400 years combined—and you can drive that change.

Scientific breakthroughs and advances are happening at lightning speed. Yet complex world challenges continue to present themselves just as quickly. As a future scientist you’ll need to think creatively to solve them.

Some are global issues, such as the need to find new energy sources to reduce the impact of climate change, or the need to sustainably and ethically meet the world’s reliance on animal-based diets. Others are at a more local level, like coming up with eco-friendly winemaking practices or using scientific knowledge to influence policy decisions.

Future scientist, world problem-solver

Scientists’ crucial role in our world’s future is well recognised. We know that 75% of future jobs will need science, technology, engineering and maths skills, making science graduates extremely employable.*

The University of Adelaide is leading the way in scientific research and education, equipping a new generation of future scientists with the skills to tackle these world problems; and we’ve done so throughout our entire history. In fact, University of Adelaide scientists recently discovered a vaccination to tackle a bacterium that kills up to two million children each year globally.

AS WELL AS PROVIDING A SOLID FOUNDATION OF SPECIFIC DISCIPLINE KNOWLEDGE, THE UNIVERSITY OF ADELAIDE EQUIPS FUTURE SCIENTISTS WITH COMPLEMENTARY SKILLS IN BUSINESS, ENTERPRISE AND COMMUNICATION.
This diary snapshot is an example of how you may choose to schedule your university study and life. Attendance at university is less structured than at high school. Hours you spend 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.
Teaching led by acclaimed research

Studying here you will join a community of world-class researchers—both seasoned explorers and rising stars—discovering answers to some of the biggest questions of our time.

You’ll rub shoulders with academics leading internationally recognised projects, like the discovery of gravitational waves and development of advanced new techniques in gene editing.

Our researchers’ work informs our teaching and gives you the unique opportunity to work with them on active research projects. Our students have directly helped to tackle environmental challenges, advance technology and even map distant galaxies.

The University’s campuses are also home to a number of co-located industry partners, affiliated researchers and research institutes of international significance.

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 starts before you enrol, providing face-to-face enrolment advice and support to get you off to a good start.

The Sciences Mentoring Program matches small groups of new students with more experienced science students, who will stay in touch for peer support.

And if you need help with your studies, we offer drop-in services across the main first-year courses. We also give you 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 adjustment factors, if eligible). It’s that straightforward. For more details, visit adelaide.edu.au and search guaranteed entry.

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

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 provide a range of services, schemes and preparation programs that are designed to support your desire to gain educational outcomes. Wirltu Yarlu is a place where students can soar to new heights.

WANT TO GET A HEADSTART ON UNI?

www.adelaide.edu.au/headstart

The University of Adelaide’s Headstart scholarship program gives high achieving students the opportunity to study at university while still in Year 12, and have these university studies count towards their SACE and their university aggregate/ATAR.

While studying at the University part-time Headstart students not only have the opportunity to find out what university life is like before they finish school, but also contribute to and benefit from, the diverse cultural and intellectual life of the University of Adelaide.

For further information contact:
Telephone: +61 8 8313 0165
Email: start@adelaide.edu.au
THE UNIVERSITY OF ADELAIDE IS THE NUMBER 1 UNIVERSITY IN SOUTH AUSTRALIA

1st 2020 Times Higher Education world ranking
1st 2020 QS World University ranking
1st 2019 Academic Rankings of World Universities (ARWU)

RANKED TOP IN SOUTH AUSTRALIA FOR:

- LAW (QS, ERA)
- HEALTH (Times Higher Ed, QS, ERA)
- NURSING (QS) 9th in Australia Top 50 in the world
- ARTS AND HUMANITIES (Times Higher Ed, QS, ERA)
- ALL 6 ENGINEERING FIELDS (QS)
- SCIENCES (Times Higher Ed, QS, ERA)

- COMPUTER SCIENCE (Times Higher Ed, QS, ERA)
- MBA (AFR)
- STEM (QS, ERA)

$182m The most research income across South Australia (2018)
$40.4m Received the most ARC and NHMRC funding across South Australia (2018)

ONLY SOUTH AUSTRALIAN UNIVERSITY WITH QS RANKING IN VETERINARY SCIENCE AND DENTISTRY
Choose subjects at school that will help you prepare for success at university and take advantage of the subject-based entry to some of our most popular degrees. Apply as normal through SATAC, and list the University of Adelaide in your preferences, and we’ll assess your application against your subjects as well as your Selection Rank. Note: you must complete your SACE and have achieved an ATAR to be considered.

Subject-based pathways are available into:
- Arts
- Commerce
- Engineering
- Health and Medical Science
- Media
- Psychological Science
- Science

<table>
<thead>
<tr>
<th>UoA Degree</th>
<th>Subject-based entry criteria</th>
</tr>
</thead>
</table>
| Bachelor of Arts  
All varieties except Advanced | B or better  
English Literature  
or English  
B or better  
Any other Humanities  
or Social Science subject |
| Bachelor of Commerce | B or better  
English Literature  
or English  
B or better  
Specialist Mathematics or Mathematical Methods or General Mathematics |
| Bachelor of Engineering (Honours)  
(Chemical) | B or better  
Specialist Mathematics  
B or better  
Mathematical Methods  
C or better  
Chemistry |
| Bachelor of Engineering (Honours)  
(Architectural and Structural)  
(Civil)  
(Electrical And Electronic)  
(Enviromental)  
(Mechanical)  
(Mining)  
(Petroleum)  
(software) | B or better  
Specialist Mathematics  
B or better  
Mathematical Methods  
C or better  
Physics |
| Bachelor of Health and Medical Science | B or better  
Biology or Chemistry  
or Physics  
B or better  
Biology or Chemistry or Physics or Specialist Mathematics or Mathematical Methods or General Mathematics |
| Bachelor of Media | B or better  
English Literature  
or English  
B or better  
Any other Humanities  
or Social Science subject |
| Bachelor of Psychological Science | B or better  
English Literature  
or English  
B or better  
Specialist Mathematics or Mathematical Methods or General Mathematics |
| Bachelor of Science | B or better  
Biology or Chemistry or Physics or Earth and Environmental Science  
C or better  
Biology or Chemistry or Physics or Earth and Environmental Science or Specialist Mathematics or Mathematics Methods |
## CAREERS AND STUDY

### INDICATIVE STUDY-TO-CAREER PATHWAYS

<table>
<thead>
<tr>
<th>Disciplinary areas</th>
<th>Degrees</th>
<th>Career</th>
</tr>
</thead>
</table>
| **Agriculture, Food and Wine** | Bachelors of: | * Agriculture consultant  
* Agronomist  
* Biosecurity specialist  
* Brewer or distiller  
* Data analyst  
* Data farmer  
* Environmental consultant  
* Food chain specialist  
* Food chemist | * Food microbiologist  
* Food technologist  
* Horticulturist  
* Nutritionist  
* Product development coordinator  
* Plant biotechnologist  
* Precision viticulturist | * Resource manager  
* Rural banker  
* Science communicator  
* Soil scientist  
* Urban agriculturist  
* Vineyard manager  
* Viticulturist  
* Wine maker |
| **Animal and Veterinary Sciences** | Bachelors of: | * Animal health officer  
* Animal trainer  
* Animal/Veterinary technician  
* Animal welfare officer  
* Behaviourist  
* Behaviourist in private veterinary practice | * Behaviourist trainer for assistance dogs  
* Biosecurity officer  
* Nutritionist  
* Precision livestock breeder  
* Vet | * Veterinary practice manager  
* Veterinary technologist  
* Vertebrate pest manager  
* Wildlife conservationist  
* Zoo keeper |
| **Biomedical Science and Biotechnology** | Bachelors of: | * Bioinformatic scientist  
* Biostatistician  
* Biotechnologist  
* Clinical data manager  
* Clinical scientist | * Diagnostic technician  
* Embryologist  
* Genetic counsellor  
* Gene therapist  
* Medical research scientist | * Microbiologist  
* Neuroscientist  
* Pharmaceutical scientist  
* Plant biotechnologist  
* Public health |
| **Earth and Environmental Sciences** | Bachelors of: | * Big data conservation  
* Climate change analyst  
* Ecologist  
* Environmental education instructor  
* Environmental informatics  
* Environmental manager | * Environmental prediction  
* Geochemist  
* Geologist  
* Geomicrobiologist  
* Geophysicist  
* Life scientist | * Marine biologist  
* Paleontologist  
* Research scientist  
* Seismologist  
* Sustainability specialist  
* Wildlife conservation |
| **Sciences** | Bachelors of: | * Analytical chemist  
* Astronomer  
* Astrophysicist  
* Biochemical engineer  
* Botanist  
* Business development manager  
* Business scientist  
* Computational physicist  
* Data scientist  
* Drone technologist  
* Econophysicist | * Environmental biologist  
* Forensic scientist  
* Government researcher  
* Innovation manager  
* Life scientist  
* Materials scientist  
* Merchant banker  
* Meteorologist  
* Nanotechnologist  
* New science ethicist | * Petrophysicist  
* Physicist  
* Research and development manager  
* Research scientist  
* Science communicator  
* Science entrepreneur  
* Science teacher  
* Space entrepreneur  
* Space scientist |

* *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*
To ensure you understand the prerequisite requirements of your preferred degree, visit adelaide.edu.au/degree-finder

### PREREQUISITES AND RECOMMENDED STUDY BACKGROUND

<table>
<thead>
<tr>
<th>Degrees</th>
<th>Prerequisite (essential SACE Stage 2 subjects)</th>
<th>Assumed knowledge (recommended SAGE Stage 2 background)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of: Science</td>
<td>SACE Stage 2 Mathematical Methods*, Physics or Specialist Mathematics are prerequisites for some first year courses</td>
<td>• Chemistry</td>
</tr>
<tr>
<td>• Science</td>
<td></td>
<td>• Mathematical Methods*</td>
</tr>
<tr>
<td>• Science (Honours)</td>
<td></td>
<td>• Physics</td>
</tr>
<tr>
<td>• Science (Advanced)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Science (Advanced)(Honours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Honours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Advanced)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Advanced)(Honours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Mineral Geoscience)</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>Bachelor of: Science (Biomedical Science)</td>
<td>Chemistry and one of: Biology, Geology, Physics, Scientific Studies, General Mathematics, Mathematical Methods*, or Specialist Mathematics, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition.</td>
<td>• Mathematical Methods*</td>
</tr>
<tr>
<td>• Science (Biomedical Science)</td>
<td></td>
<td>• Physics</td>
</tr>
<tr>
<td>Bachelor of: Science (Veterinary Bioscience)</td>
<td>• Mathematical Methods*</td>
<td>• Physics</td>
</tr>
<tr>
<td>• Science (Veterinary Bioscience)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Biotechnology)</td>
<td>• Mathematical Methods*</td>
<td></td>
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<tr>
<td>• Science (Biotechnology)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Space Science and Astrophysics)</td>
<td>• Mathematical Methods*</td>
<td></td>
</tr>
<tr>
<td>• Science (Space Science and Astrophysics)</td>
<td>• Specialist Mathematics</td>
<td></td>
</tr>
<tr>
<td>• Science (High Performance Computational Physics)(Honours)</td>
<td>• Physics</td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Applied Data Analytics (All specialisations)</td>
<td>• Mathematical Methods*</td>
<td></td>
</tr>
<tr>
<td>• Applied Data Analytics (All specialisations)</td>
<td>Physics or Specialist Mathematics are prerequisites for some first year courses</td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Wildlife Conservation Biology)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Agriculture Sciences</td>
<td>None</td>
<td>• Chemistry</td>
</tr>
<tr>
<td>• Food and Nutrition Science</td>
<td></td>
<td>• Mathematical Methods*</td>
</tr>
<tr>
<td>• Science (Animal Behaviour)</td>
<td></td>
<td></td>
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<tr>
<td>• Science (Animal Science)</td>
<td></td>
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<tr>
<td>• Science (Marine Biology)</td>
<td></td>
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<tr>
<td>• Veterinary Technology</td>
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<tr>
<td>• Viticulture and Oenology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of: Science (Wildlife Conservation Biology)</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

*If Stage 2 studies were undertaken prior to 2017, the equivalent subject was well known as Mathematical Studies.
AGRICULTURE, FOOD AND WINE
Plant new seeds

Humanity’s intelligence long ago lifted us to the top of the food chain; now we’re creating entirely new ones. With increasing pressure on resources, the world is hungry for more productive and sustainable food and farming practices. Cross-pollination, genetic engineering, neurogastronomy—it’s all on the table.

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 many opportunities for you to explore.

Degrees in agriculture, food and wine sciences combine theory with a healthy dose of practical, hands-on experience; great if you’re looking for a strong connection with industry throughout your study.

Waite and Roseworthy campuses

The University of Adelaide’s Waite campus 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—the largest agricultural research institute in the southern hemisphere. Staff and students work closely with these organisations, providing a unique opportunity for collaboration on national and international research projects.

A working farm at our Roseworthy campus offers further opportunities for students to build practical skills while they study.

Can you see yourself as an agricultural scientist?

More than just growers, these scientists get creative with new tech to satisfy local and global needs. They will have to come up with solutions to questions like, ‘How can we get innovations in agriculture out into the field?’ Think drones, crop and livestock sensors—even urban farms.

Study:

- Bachelor of Applied Data Analytics (Agriculture)
- Bachelor of Agricultural Sciences
- Bachelor of Science (Animal Science)
- Bachelor of Science or Bachelor of Science (Advanced) – majoring in Soil Science
- Bachelor of Viticulture and Oenology

HANNAH MCARDLE

Bachelor of Agricultural Sciences
Territory Sales Manager, Syngenta Australia

“I have a passion for feeding the world, such an important matter that can often be forgotten. I also love working outdoors.”
BACHELOR OF AGRICULTURAL SCIENCES

SATAC CODE
324561

CAMPUS
Roseworthy and Waite

DURATION
3 years full-time

GUARANTEED ENTRY
ATAR: 75 / IB: 27

ASSUMED KNOWLEDGE
SACE Stage 2: Chemistry and Mathematical Methods (if studied year ‘12 prior to 2017, the equivalent subject was called Mathematical Studies)

adelaide.edu.au/degree-finder
Search agriculture

Be part of the boom
Agriculture is about understanding the land, animals, crops and community.
For those seeking a career in the industry, our Bachelor of Agricultural Sciences is the degree of choice. It’s taught by a discipline ranked 40 in the world for Agriculture Sciences* and is the only degree in the field in South Australia.

What will you do?
Our hands-on approach to teaching will set you up to join this booming industry. You will:
• learn how to respond to global food shortages and a changing climate with sustainable practices, environmental stewardship, modern agribusiness and new technology
• master the latest methods, from adapting genes and cells for new crops to the business of livestock, and explore emerging trends, like vertical farming
• build practical skills through at least 450 hours of internships and real-world learning at our working farm at Roseworthy
• work with industry-transforming technology, like drones, GPS and crop sensors
• go on field trips across Australia, exploring everything from dryland farming to glasshouse systems
• develop skills in agribusiness that will allow you to work in the business of farming
• access the latest research, innovation and technology through government and industry partners.

Where could it take you?
Within just a few months of finishing, almost 90% of our graduates find full time employment**. In fact, on average there are five jobs available for every graduate**. You’ll be set to improve primary production outputs in both rural and city locations.
You could work as a consultant, conduct sustainability research, advise on government policy or innovate in urban and vertical farming. You might get a job in ag media, connecting farmers to their customers. Perhaps you’ll come up with ways to increase farming efficiency using modern drone technology.

Industry placement
Unlike many other universities, we offer industry work experience: a total of 12 weeks, or 450 hours. This is done during University vacations.
In your first and third year, you’ll go on numerous field trips and excursions.
You’ll also have the opportunity for field trips to South-East South Australia and Queensland; and even international trips such as China and India.

* Academic Ranking of World Universities by Subject 2019
** Bachelor of Agricultural Sciences (QILT Graduate Outcome Survey Results by Program 2018)
^ FarmInstitute.org.au/newsletter/2016/May/feature

BACHELOR OF FOOD AND NUTRITION SCIENCE

SATAC CODE
314761

CAMPUS
North Terrace, Waite and Regency Park

DURATION
3 years full-time

GUARANTEED ENTRY
ATAR: 75 / IB: 27

ASSUMED KNOWLEDGE
SACE Stage 2: Chemistry and Mathematical Methods (if studied year ‘12 prior to 2017, the equivalent subject was called Mathematical Studies)

adelaide.edu.au/degree-finder
Search nutrition + food technology

Feed our future
Food is fundamental to our wellbeing as a society. New approaches to production and processing of food, as well as to our diet, are key for health and sustainability.
The Australian food and beverage industry exports $40 billion a year and is growing rapidly. There is a high demand for food and nutrition scientists able to tackle today’s challenges and meet tomorrow’s global needs.

What will you do?
Our Bachelor of Food and Nutrition Science prepares you to educate and innovate with food. You will:
• tackle global issues like food security and population health to help feed the world into the future
• learn about food systems and production from ‘farm-gate to fork’
• gain hands-on experience through 120 hours of placement in a food, nutrition or health organisation
• learn how to design, formulate, produce, package and market foods under industry conditions
• develop the skills to use and alter food to combat diet-related health issues
• experiment with chemical composition and flavour combinations in the lab
• explore ways of developing sustainable, nutritious, safe and healthy food supplies.
Where could it take you?

You could work in public health advertising, developing food and nutrition policy, regulations and resources. You might pursue microbiology and increase the nutrient density of plant-based protein products. Perhaps you’ll take on a role in food quality assurance, waste management or education. You’ll also be eligible to apply for registration as an associate nutritionist, or you could use the program as a pathway into dietetics.

Professional accreditation

Upon graduation you’ll be eligible for registration as an Associate Nutritionist with the Nutrition Society of Australia. After three years of relevant experience, you can then apply to be a Registered Nutritionist. You can also apply for graduate membership of the Australian Institute of Food Science Technology.

BACHELOR OF VITICULTURE AND OENOLOGY

Follow your palate

Great wine is central to South Australia’s identity. In fact, Adelaide is one of the great wine capitals of the world with over 200 cellar doors within an hour of the CBD. Seventy percent of Australian wine research happens at the University of Adelaide’s Waite campus. Our winemakers are innovators and cultural leaders within a sector helping to drive the nation’s economy.

What will you do?

Our Bachelor of Viticulture and Oenology teaches best-practice techniques for growing wine grapes and making wine. You will:

• get your hands dirty in our on-campus vineyard and learn to make wine at Australia’s largest teaching winery
• build practical skills through an industry placement in viticulture and/or oenology
• study at the largest agricultural teaching and research precinct in the Southern Hemisphere
• learn from more than 150 researchers and partners in wine and grape science
• access cutting-edge research at the Australian Research Council Training Centre for Innovative Wine Production.

Where could it take you?

You’ll graduate as a fully trained winemaker or viticulturist. You could manage your own winery or vineyard. You might work with the latest technologies to develop innovations and efficiencies in related industries. Perhaps you’ll focus on sustainable and natural practices, building an organic, biodynamic or solar-powered future for the wine industry.

Industry placement

In fourth year, you are required to complete an industry experience placement in viticulture and/or oenology. This is a practical placement, based on work experience at a commercial vineyard or winery during vintage.

DANIELA GAGGL

Bachelor of Viticulture and Oenology
Technical Officer, Yalumba Nursery

“The viticulture and oenology degree provided theoretical knowledge and hands-on experience through a wide range of amazing courses. This has enabled me to find my first job within the wine industry as soon as I graduated.”
ANIMAL AND VETERINARY SCIENCES
Lead the pack

On this life-rich planet, humanity’s challenges are rarely ours alone. We’re intimately connected to, and responsible for, millions of different creatures. Applying science to ensure our relationships with the animal world are healthy and productive is a vital and rewarding task—and one that’s changing fast.

As a scientist in this area you could be called upon to: tackle issues like sustainable livestock production and biosecurity; address problems of animal welfare and management; and maximise our beloved pets’ health and lifespans.

Hands-on learning from experts in the field

You’ll learn from internationally renowned academics and gain extensive practical skills —both in the field and at our purpose-built veterinary teaching and research clinic. Depending on your chosen degree, you’ll have the chance to cover a remarkable range of subjects, from livestock’s molecular genetics to veterinary practice management.

Career flexibility

Your career options will be many. 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.

Roseworthy campus

Your studies will be based at our Roseworthy campus, an internationally recognised centre for excellence in dryland agriculture, natural resource management and animal production.

Set on over 1500 hectares, it’s home to South Australia’s only veterinary school and a $37 million vet clinic, where you can gain clinical experience while studying and utilise emerging technology, like livestock monitoring sensors.

Can you see yourself as an animal scientist?

Don’t expect a ‘typical’ day at work! Animal scientists and technicians explore animal physiology, nutrition, reproduction, breeding and welfare management, both in the lab and the field. Future scientists in the area will even use 3D imaging (accurate to within millimetres) to monitor livestock’s condition and optimise management decisions.

Study:

• Bachelor of Science (Animal Behaviour)
• Bachelor of Science (Animal Science)
• Bachelor of Veterinary Technology

MICHÈLLE BIRKETT

Bachelor of Science (Animal Science)
Zookeeper, Adelaide Zoo

“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.”
Animal behaviour show on TV. Perhaps you’ll host your very own even comforting children with autism and visually impaired, detecting in customs, or might prepare dogs for roles guiding the management for local government. You greyhounds for adoption or work in animal kingdom. It’s about understanding the science behind why animals act in certain ways, how we should work with them, and how we can look after their futures. It even informs our understanding of human behaviour.

What will you do?
Explore why cat’s meow, find out if parrots are smart, and play with the odd puppy or two as you build the skills to join this growing industry. You will:
- study the behaviour of animals big and small, including cats, dogs, birds, horses, livestock, wildlife and insects
- build practical skills through internship opportunities
- join a close-knit, animal-loving community at our Roseworthy campus
- learn about animal development and the biological drivers of behaviour
- explore your personal animal interests through research projects and case studies
- draw on the University’s internationally recognised expertise in animal science and veterinary bioscience.

Where could it take you?
You could consult with exotic pets, prepare greyhounds for adoption or work in animal management for local government. You might prepare dogs for roles guiding the visually impaired, detecting in customs, or even comforting children with autism and anxiety. Perhaps you’ll host your very own animal behaviour show on TV.

Communicate across species
Love interacting with animals? Fascinated by pets and their personalities? Animal behaviour is psychology for the animal kingdom. It’s about understanding the science behind why animals act in certain ways, how we should work with them, and how we can look after their futures. It even informs our understanding of human behaviour.

What will you do?
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Where could it take you?
This is the first part of our veterinary science program. Upon graduation you’ll gain direct entry into the Doctor of Veterinary Medicine program. Completing both degrees makes you eligible to register as a veterinarian, where you might own a practice or travel to farms around the country treating animals.
Veterinary bioscience could also lead to research roles in equine, zoo animal or wildlife medicine. You might even work in biosecurity, managing programs to prevent disease and pollution.

Professional accreditation
Our veterinary science program 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 you graduate from your Doctor of Veterinary Medicine, you’ll be eligible for registration as a veterinarian in Australia, New Zealand, South Africa, Singapore, the United Kingdom and Hong Kong.

* QS World University Rankings by Subject, 2019.
^ Excellence in Research for Australia, 2018.

BACHELOR OF VETERINARY TECHNOLOGY

<table>
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<tr>
<th>SATAC CODE</th>
<th>CAMPUS</th>
<th>DURATION</th>
<th>GUARANTEED ENTRY</th>
<th>ASSUMED KNOWLEDGE</th>
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<td>3 years full-time</td>
<td>ATAR: 75 / IB: 27</td>
<td>SACE Stage 2 Chemistry and Mathematical Methods.</td>
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</tbody>
</table>

Lead transformative animal care
Also known as para-veterinary health care specialists, veterinary technologists play a vital role in modern animal welfare. As well as providing high-level, hands-on veterinary care, including the use of anaesthesia and analgesics, they oversee the application of cutting-edge new veterinary technology. Data-driven apps, wearable devices, telemedicine—a steady stream of advanced new tools is reimagining what’s possible in the clinical environment. As a veterinary technologist, you can ensure these tools deliver maximum benefit to animals’ health and wellbeing.

What will you do?
Our Bachelor of Veterinary Technology is part of the University’s world-top-50 suite of veterinary science and veterinary-related degrees*. Studied over three years full-time, it will give you:

• high-level practical skills in caring for all kinds of animals—from cats, dogs and horses, to farm animals, wildlife and exotic pets
• the ability to independently operate state-of-the-art veterinary technologies
• training and experience in the use of anaesthetic and analgesic drugs
• deep knowledge of animal diseases, including those threatening humans
• extensive hands-on clinical experience
• regular access to our world-class, $37 million Veterinary Health Centre.

In third-year you’ll also have the opportunity to specialise in: small animals; anaesthesia; imaging; equine; farming; or practice management. And you’ll collaborate with Veterinary Bioscience and Doctor of Veterinary Medicine students throughout the degree, reflecting real-world workplace interactions.

Where could it take you?
You’ll graduate ready to step straight into high-level animal-care roles in a wide range of industry settings. You could oversee imaging or anaesthesia services for a veterinary hospital or clinic. You might care for big cats in an open-range zoo. Perhaps you’ll train biosecurity emergency-response personnel. You could even support important animal research, or—with further study—lead it yourself.

* QS World University Rankings by Subject, 2019.
Get ready for the biocentury

Our world is built on biology—every living organism wired with genetic hardware. In the 1970s, we began deciphering its code. Today, we’re altering it.

With advanced technologies and data analytics opening doors to things that would have seemed miraculous only years ago, biological science is poised to transform life as we know it. DNA origami, genetic modification, stem cell engineering, clones—feeding, fuelling and healing the world has never been more exciting.

You’ll have access to world-class training from leading researchers, and some of the most advanced technology in the southern hemisphere. And you’ll graduate ready to join one of the fastest growing sectors in the world.

Advancing health through research

The University conducts acclaimed research in a wide range of biomedical and biotechnological areas. Drawn to us from all over the world, our researchers—the same people who’ll teach you as a student—are pursuing potential cures for major diseases and exploring biological processes at a molecular level.

These pioneering scientists are also developing, and teaching with, state-of-the-art equipment, such as CRISPR gene editing technology. The University of Adelaide houses the first genome editing facility in Australia.

Can you see yourself as a biomedical scientist?

Drive the future of healthcare, from vaccine discovery to disease prevention. Tailor your degree with options to specialise in biochemistry, genetics, or microbiology and immunology.

Study:
- Bachelor of Science (Biomedical Science)
- Bachelor of Science or Bachelor of Science (Honours) – major in Biochemistry, Genetics or Microbiology and Immunology.

How about a biotechnologist?

Give your experimentation meaning. You’ll learn how to up-scale your discoveries and take them from the lab to market or the wider community. Think drug development, gene therapy or cancer biomarker identification.

Study:
- Bachelor of Science (Biotechnology)
- Bachelor of Science or Bachelor of Science (Honours) – majoring in Biochemistry, Genetics or Microbiology and Immunology.

LUKE WEINEL

Studied Molecular Biology
Eye Bank Coordinator, SA Health

“ My degree taught me the interpersonal skills and academic knowledge to take my science career in any direction and field I wanted. ”

Why the University of Adelaide?

90% increase in biotechnology jobs over past 10 years

Top 150 in the world for biological sciences

Home to Australia’s first genome editing facility

90% increase in biotechnology jobs over past 10 years

Top 150 in the world for biological sciences

90% increase in biotechnology jobs over past 10 years

Home to Australia’s first genome editing facility
BACHELOR OF SCIENCE (BIOMEDICAL SCIENCE)

SATAC CODE 314091 DURATION 3 years full-time
CAMPUS North Terrace GUARANTEED ENTRY ATAR: 75 / IB: 27

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

adelaide.edu.au/degree-finder Search biomedical

Drive progress at the molecular level

Do you have an interest in medical biology and human health? Are you keen to discover more about human disease, from its cause and diagnosis through to novel treatments and cures? Biomedical scientists are vitally important. They advance world-changing discoveries to improve the health and quality of people’s lives. The University of Adelaide is ranked in the top 150 in the world for Biological Sciences* and best in South Australia, and we have a five-star graduate satisfaction rating^.

What will you do?

Our Bachelor of Science (Biomedical Science) gives you the knowledge and skills to access an emerging global sector. You will:

• learn the skills to drive the future of healthcare, from vaccine discovery to disease prevention.
• gain real-world practical insights from industry lecturers and placements.
• study how the body works and what happens when it fails.
• explore how to stop deadly outbreaks of disease and create life-saving vaccinations.
• build a vast knowledge base from simple molecules to whole organisms.
• learn directly from active world-class biomedical researchers and educators.

Areas of specialisation include:
• Biochemistry
• Genetics
• Microbiology and Immunology

Where could it take you?

You could be running a laboratory, performing cutting-edge cancer research or modifying genes for vaccines. You might design drugs for the pharmaceutical industry. Perhaps you’ll work directly with patients after completing a degree in postgraduate medicine or allied health.

* QS World University Rankings by Subject, 2019.

BACHELOR OF SCIENCE (BIOTECHNOLOGY)

SATAC CODE 314691 DURATION 3 years full-time
CAMPUS North Terrace GUARANTEED ENTRY ATAR: 75 / IB: 27

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.

adelaide.edu.au/degree-finder Search biotechnology

Harness nature’s potential

Biotechnology focuses on biology and technology, leading to the development of new products for feeding, fuelling and healing the world. This might include vaccine, antibiotic or hormone production and genetic modification.

It’s a fast-evolving industry with huge potential for improving global health and wellbeing. When we modify living things, all sorts of marvels become possible.

What will you do?

Our Bachelor of Science (Biotechnology) combines traditional science with aspects of engineering and computer science and has a five-star graduate satisfaction rating*.

You will:

• give your experimentation meaning as you learn how to take your discoveries from the lab to the market and wider community.
• delve into areas like drug development, gene therapy or the identification of biomarkers for cancers.
• learn how to produce food, drugs and other products.
• study alongside research-active experts.
• explore molecular, genetic, animal and plant biology.
• discover microbial biotechnology and bioprocess engineering.
• consider social and ethical issues, patents and waste management.

Where could it take you?

You could develop world-changing pharmaceutical drugs in the lab. You might work to clone animals. Perhaps you’ll aid in the development and implementation of modern techniques for disease prediction and treatment.

You may also have the opportunity to undertake international study opportunities, such as investigating biotechnology in Seoul, Korea.

* Graduate Outcomes Survey, 2018.
Have nature’s back

From giant cuttlefish in the sea to arid deserts, subterranean caves and rainforests teeming with life—our planet is a place of awe and wonder. It begs for exploration, deep understanding, and increasingly—with threats looming—resolute action.

Some of the most significant global issues we face today will be tasked to future scientists in this area to solve. This includes challenges such as: overpopulation; species protection; ocean pollution; and the need to better connect people to nature so they appreciate the importance of preserving our environment.

Here at the University of Adelaide we can prepare you to become one of these vital environmental advocates.

Splitting your time between the lab and the field, you’ll learn to use advanced technology to collect data, tackle conservation issues, track species and monitor natural disasters with incredible precision. You’ll emerge ready to help build a sustainable future for our planet.

Research

The University of Adelaide leads 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.

Can you see yourself as an environmental scientist?

The chance to make a meaningful impact in this area of science is great. Future scientists will play a critical role in determining the way forward for our planet and its inhabitants. You could track endangered species, educate the public about the effects of climate change or research microplastics in seafood.

Study:

- Bachelor of Science (Marine Biology)
- Bachelor of Science (Wildlife Conservation Biology)
- Bachelor of Science or Bachelor of Science (Honours) (majoring in Ecology, Evolutionary Biology, Geology or Palaeontology)
- Bachelor of Applied Data Analytics (Environment)

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SARAH HAMLYN

Bachelor of Science (Marine Biology)
Staff Biologist, Monte Marine Laboratory at the International Centre for Coral Reef Research and Restoration, Florida

“Extended field trips into both marine and freshwater environments allowed me to obtain invaluable hands-on experience gathering and analysing real life data and understanding how to conduct rigorous experiments in the field.”
BACHELOR OF SCIENCE
(MARINE BIOLOGY)

SATAC CODE 324431
CAMPUS North Terrace

DURATION 3 years full-time
GUARANTEED ENTRY ATAR: 75 / IB: 27

ASSUMED KNOWLEDGE
SACE Stage 2: Chemistry and Mathematical Methods
(if studied year ‘12 prior to 2017, the equivalent subject was called Mathematical Studies)

Go below the surface
Marine biology is the study of our planet’s largest and most diverse ecosystem—the sea. Marine biologists observe, preserve and discover ocean life, from tiny shelled creatures and thriving underwater forests to flashing squid and roving sharks.

What will you do?
Our Bachelor of Science (Marine Biology) has a focus on contemporary marine biology practices on both a local and global scale, with a five-star student satisfaction ranking for teaching quality and overall experience*. You will:

• get hands-on in marine and freshwater environments
• master your expertise in the lab, then apply these techniques in the field
• learn the skills to be able to work on temperate seas—from sub-polar to sub-tropical, where there is a high demand for graduates
• explore pressing and critical issues like conservation, species protection and the effects of plastics on the ocean
• access cutting-edge technology and equipment used in pioneering research around the world
• learn from nationally and internationally acclaimed researchers
• dive into coastal management, evolutionary science and marine ecology.

During most years, you’ll also have the opportunity to go on international trips to coastal regions, including Timor-Leste and China. You’ll visit aquaculture farms and fish markets, undertake scuba diving courses, and help local communities monitor marine parks.

Where could it take you?
You could explore future life in a high-CO2 world, dive on underwater volcanoes or lead oceanic ecotours. You might study the effects of climate change on our reefs or research the impact of microplastics in fish. Perhaps you’ll make documentaries to educate the wider public or discover totally new marine species.

* Student Experience Survey Teaching Quality Satisfaction Level 2018

BACHELOR OF SCIENCE
(MINERAL GEOSCIENCE)

SATAC CODE 324551
CAMPUS North Terrace

DURATION 3 years full-time
GUARANTEED ENTRY ATAR: 75 / IB: 27

PREREQUISITES
SACE Stage 2: any two science subjects chosen from Biology, Chemistry, Geology, General Mathematics, Mathematical Methods*, Physics, Agriculture and Horticulture, Agricultural and Horticultural Science, Nutrition, Scientific Studies or Specialist Mathematics. (NB: only one mathematics subject may be counted.)
IB: two science subjects (minimum grade 4 for SL, 3 for HL), or one science subject plus Mathematics (minimum grade 4 for SL, 3 for HL).
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies

Assumed Knowledge
SACE Stage 2: Chemistry and Mathematical Methods*
Physics
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies

Rock-solid job opportunities
Mineral geoscience is all about Earth’s mineral resources—their nature, origin, distribution, discovery and uses. Geoscientists explore for metallic and non-metallic deposits and find environmentally safe ways to dispose of waste materials from mining.

What will you do?
Our Bachelor of Science (Mineral Geoscience) prepares you for an interesting, well-paid and diverse career in the minerals and energy sector. You will:

• get hands-on with plenty of field work and exposure to industry in this high-demand field
• learn about mining, engineering and mineral resources
• explore Earth’s mineral resources—their nature, origin, distribution, discovery and uses
• see rocks in their natural habitat, study the oceans and learn how to read history from the Earth
• take integrated and extended geology, tectonics and geophysics courses.

Where could it take you?
Mineral geoscience graduates are in high demand. You might work in exploration, making the calls on where next to drill for diamonds. You could journey below the surface as an underground mine geologist. Perhaps you’ll work on solutions for repairing the environmental impacts of mining.

BACHELOR OF SCIENCE
(WILDLIFE CONSERVATION BIOLOGY)

SATAC CODE 334901
CAMPUS North Terrace

DURATION 3 years full-time
GUARANTEED ENTRY ATAR: 75 / IB: 27

ASSUMED KNOWLEDGE
SACE Stage 2: any two science subjects chosen from Biology, Chemistry, Geology, General Mathematics, Mathematical Methods*, Physics, Agriculture and Horticulture, Agricultural and Horticultural Science, Nutrition, Scientific Studies or Specialist Mathematics. (NB: only one mathematics subject may be counted.)
IB: two science subjects (minimum grade 4 for SL, 3 for HL), or one science subject plus Mathematics (minimum grade 4 for SL, 3 for HL).
* If Stage 2 studies were undertaken prior to 2017, the equivalent subject was known as Mathematical Studies

Go below the surface
Marine biology is the study of our planet’s largest and most diverse ecosystem—the sea. Marine biologists observe, preserve and discover ocean life, from tiny shelled creatures and thriving underwater forests to flashing squid and roving sharks.

What will you do?
Our Bachelor of Science (Marine Biology) has a focus on contemporary marine biology practices on both a local and global scale, with a five-star student satisfaction ranking for teaching quality and overall experience*. You will:

• get hands-on in marine and freshwater environments
• master your expertise in the lab, then apply these techniques in the field
• learn the skills to be able to work on temperate seas—from sub-polar to sub-tropical, where there is a high demand for graduates
• explore pressing and critical issues like conservation, species protection and the effects of plastics on the ocean
• access cutting-edge technology and equipment used in pioneering research around the world
• learn from nationally and internationally acclaimed researchers
• dive into coastal management, evolutionary science and marine ecology.

During most years, you’ll also have the opportunity to go on international trips to coastal regions, including Timor-Leste and China. You’ll visit aquaculture farms and fish markets, undertake scuba diving courses, and help local communities monitor marine parks.

Where could it take you?
You could explore future life in a high-CO2 world, dive on underwater volcanoes or lead oceanic ecotours. You might study the effects of climate change on our reefs or research the impact of microplastics in fish. Perhaps you’ll make documentaries to educate the wider public or discover totally new marine species.

* Student Experience Survey Teaching Quality Satisfaction Level 2018

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* Student Experience Survey Teaching Quality Satisfaction Level 2018

Make a real impact
Wildlife is vanishing throughout the world. Many species will disappear during your working life. Do you want to buck this trend and reverse imminent species loss? Our Bachelor of Science (Wildlife Conservation Biology) gives you the knowledge and skills to safeguard our ecosystems and protect the future of wildlife in crisis. This degree has a five-star student satisfaction ranking for teaching quality*. 

What will you do?
Our Bachelor of Science (Wildlife Conservation Biology) is hands-on and prepares you to become a conservation advocate in both theory and practice. You will:

• split your time between the lab and the field as you learn to champion biodiversity conservation
• use new technology, like drones and satellites to collect data and monitor habitats
• conduct field research for real-life monitoring programs
• build valuable industry connections with organisations—from Arid Recovery and BioR in South Australia to Conservation International
• learn to identify plants and animals in natural settings
• consider the social, political and economic constraints of the field
• develop the skills to plan, execute and monitor habitat restoration programs for declining species.

Where could it take you?
Our conservation graduates go on to all sorts of exciting and rewarding careers. You might reconstruct local habitats or lead breeding programs in sanctuaries.

You could monitor the movements of animals with satellite tracking and other remote techniques. Perhaps you’ll work in academia, researching your passion and inspiring the next generation of conservationists.

* Student Experience Survey Teaching Quality Satisfaction Level 2018
Focus your passion

Scientists vary as much as the discoveries they’ve brought to the world.

While some work in labs, others spend their days in more unexpected places. A space scientist might work in the icy fields of the South Pole hunting for subatomic particles. A science entrepreneur may turn a discovery into a commercial reality in a start-up hub. A physicist could work deep in the online world of cybersecurity.

The University of Adelaide gives you the breadth and depth of knowledge to set you on the path to becoming a future scientist, but the type of scientist you want to be and where you want to work is up to you.

Ecology, business, space, palaeontology… Which future will you choose?

Contribute to world-class research

Wherever you focus your scientific curiosity here, you’ll be exposed to world-class research and learn from experts who are actively involved in internationally recognised projects. You’ll even have the chance to work with them.

Ours is one of only three universities in the world to be involved with finding the Higgs boson and high-energy neutrinos from an active galaxy, as well as the Nobel Prize-winning discovery of gravitational waves. And our students were part of all three projects.

So, as you can see, there’ll be plenty of opportunities for you to contribute to new research and discoveries.

Can you see yourself as a space scientist or astrophysicist?

It’s an exciting time to join one of the fastest growing, and most talked about industries; space. Australia’s space agency has set an ambitious target of tripling our industry in the next decade. That would mean up to 20,000 new jobs.

Study:

• Bachelor of Science (Space Science and Astrophysics)
**BACHELOR OF APPLIED DATA ANALYTICS**

354141, 354151, 354161, 354171, 354181, 354191, 354221

**CAMPUS**
North Terrace and Waite

**DURATION**
3 years full-time

**GUARANTEED ENTRY**
ATAR: 75 / IB: 27

**PREREQUISITE**
SACE Stage 2 Mathematical Methods*

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

 Adelaide.edu.au/degree-finder

**Discover our world**

Love science but not sure which path to take? The Bachelor of Science lets you design your own degree based on your strengths and emerging interests. From Chemistry to Palaeontology, Genetics to Geophysics—we support your scientific curiosity.

Our degree is taught by a faculty ranked number one for Science in South Australia, and 104 and 114 in the world for Life Sciences and Natural Sciences respectively*. We also have the state’s highest Science graduate satisfaction rating**.

**What will you do?**

Whether you want to use your critical thinking to help drive global change or join the cutting-edge of research, our Bachelor of Science will give you the skills you need.

- become an adaptable scientist as you learn the skills to evolve with one of the fastest-growing sectors
- learn from world-class researchers who are experts in their field
- develop connections in the science world through internships
- engage with new ideas through discovery and experiential learning
- develop in-depth discipline knowledge through a major
- build highly sought-after skills in communication, critical thinking and creative problem solving
- access research facilities of international significance.

**Where could it take you?**

You could surround yourself with plants as a botanist, work in stem cell research, take up teaching or apply your skills in the business world. You might help the public engage with science through games and apps. Perhaps you’ll launch your abilities as a space entrepreneur, one of the many emerging science roles we’re only just beginning to imagine.

* QS World University Rankings by Subject, 2019.
** QILT 2019, Science and Mathematics.

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**BACHELOR OF SCIENCE**

314581

**CAMPUS**
North Terrace

**DURATION**
3 years full-time

**GUARANTEED ENTRY**
ATAR: 75 / IB: 27

**ASSUMED KNOWLEDGE**
SACE Stage 2 Mathematical Methods, Physics or Specialist Mathematics are prerequisites for some first year courses

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

 Adelaide.edu.au/degree-finder

**Discover our world**

Love science but not sure which path to take? The Bachelor of Science lets you design your own degree based on your strengths and emerging interests. From Chemistry to Palaeontology, Genetics to Geophysics—we support your scientific curiosity.

Our degree is taught by a faculty ranked number one for Science in South Australia, and 104 and 114 in the world for Life Sciences and Natural Sciences respectively*. We also have the state’s highest Science graduate satisfaction rating**.

**What will you do?**

Whether you want to use your critical thinking to help drive global change or join the cutting-edge of research, our Bachelor of Science will give you the skills you need. You will:

- become an adaptable scientist as you learn the skills to evolve with one of the fastest-growing sectors
- learn from world-class researchers who are experts in their field
- develop connections in the science world through internships
- engage with new ideas through discovery and experiential learning
- develop in-depth discipline knowledge through a major
- build highly sought-after skills in communication, critical thinking and creative problem solving
- access research facilities of international significance.

**Where could it take you?**

You could surround yourself with plants as a botanist, work in stem cell research, take up teaching or apply your skills in the business world. You might help the public engage with science through games and apps. Perhaps you’ll launch your abilities as a space entrepreneur, one of the many emerging science roles we’re only just beginning to imagine.

* QS World University Rankings by Subject, 2019.
** QILT 2019, Science and Mathematics.
Discover more of our world

If you haven’t yet chosen an area of science to specialise in, but are sure that—once you have—you’ll want to follow that path as far as it can take you, this degree’s for you. Building on the Bachelor of Science, our direct-entry Bachelor of Science (Honours) lets you thoroughly explore your scientific curiosity before specialising—and going on to gain next-level capability and an employability edge. The degree is taught by a faculty ranked number one for Science*, and Science graduate satisfaction**, in South Australia.

What will you do?

Your first year is all about discovery. You’ll investigate a number of scientific fields, before choosing a major to focus on in years two and three (see Bachelor of Science for choices).

During this time, you’ll enjoy the same fantastic opportunities offered to all Bachelor of Science students. That includes developing real-world connections through internships, and potentially gaining global experience with international study. In your honours year, you’ll then advance along either a disciplinary research or professional skills pathway. The disciplinary research path is the most research-intensive.

Working with a specific researcher or research group, you’ll undertake a major research project, together with advanced coursework, in one of the following study areas:
- agriculture
- animal science
- chemistry
- ecology/environmental science
- environmental geoscience
- evolution and palaeobiology
- food and nutrition
- geology
- geophysics
- horticulture
- molecular and biomedical science
- physics
- plant science
- soil science
- viticulture
- wine science.

The less research-intensive professional skills pathway will expand your scientific knowledge and skills more broadly. You’ll undertake a major industry or community-related project, along with advanced general coursework, in your choice of:
- science communication
- science education
- science innovation
- science policy
- project management.

Where could it take you?

Depending on your study choices, you could emerge well-prepared for a high-level career in a specific scientific discipline. You might provide society with critical big-picture insights as a science generalist. Or perhaps you’ll aim higher still and go on to PhD level research. Wherever you want to go, you’ll be well placed.

* QS World University Rankings by Subject, 2019.
** QILT 2019, Science and Mathematics.
Working with a specific researcher or research group, you’ll undertake a major research project, together with advanced coursework, in one of the following study areas:

- agriculture
- animal science
- chemistry
- ecology/environmental science
- environmental geoscience
- evolution and palaeobiology
- food and nutrition
- geology
- geophysics
- horticulture
- molecular and biomedical science
- physics
- plant science
- soil science
- viticulture
- wine science.

The less research-intensive professional skills pathway will expand your scientific knowledge and skills more broadly. You’ll undertake a major industry or community-related project, along with advanced general coursework, in your choice of:

- science communication
- science education
- science innovation
- science policy
- project management.

Where could it take you?

Depending on your study choices, you could emerge well-prepared for senior and leadership roles in a specific scientific discipline or as a science generalist, in the public or private sector. Or perhaps you’ll aim higher still and go on to PhD level research. Wherever you want to go, you’ll be perfectly placed.

* QS World University Rankings by Subject, 2019.
** QILT 2019, Science and Mathematics.

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**Bachelor of Science (Advanced)**

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<th>SATAC CODE</th>
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<tbody>
<tr>
<td>324651</td>
<td>North Terrace</td>
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</tbody>
</table>

**DURATION**

3 years full-time

**GUARANTEED ENTRY**

ATAR: 95 / IB: 37

**ASSUMED KNOWLEDGE**

SAGE Stage 2 Mathematical Methods, Physics or Specialist Mathematics are prerequisites for some first-year courses

**Where could it take you?**

You’ll graduate with enhanced research and project management skills for further study or leadership roles in your chosen specialisation. You could solve global ecology challenges or win the Nobel Prize as a quantum physicist.

You might spearhead an entirely new career in space entrepreneurship, genomic editing, or stem cell engineering. Perhaps you’ll communicate science as an educator, politician, or legislator. Whatever you choose, you’ll be prepared to lead the world.

You’re also encouraged to undertake internships and overseas study placements to gain a deeper understanding of professional research.

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Be a visionary

Love scientific enquiry and research?

Aspire to be outstanding in your field?
The Bachelor of Science (Advanced) is a distinctive vocational degree for high-achieving students who want to excel in their chosen career.

Highly flexible, it provides an enormous range of opportunities through which you can tailor your study to your scientific interests.

**What will you do?**

Our advanced degree challenges you to take your scientific training and research skills to the next level. You will:

- learn to drive scientific breakthroughs as you join a research-rich institution at the cutting edge of discovery
- dive straight into life as a researcher with early access to real-world research opportunities usually reserved for honours or postgraduate students
- link with academic mentors and staff in pioneering research areas, allowing you to establish networks before you graduate
- work on further projects that can be developed for an honours year and postgraduate study (Masters or PhD).

You’ll design your own degree from a broad range of scientific majors:

- Biochemistry
- Bioinformatics
- Chemistry
- Ecology
- Evolutionary Biology
- Geology
- Genetics
- Geophysics
- Microbiology and Immunology
- Palaeontology
- Plant Biology
- Physics
- Theoretical Physics
- Soil Science.
BACHELOR OF SCIENCE (SPACE SCIENCE AND ASTROPHYSICS)

SATAC CODE 324101
CAMPUS North Terrace
DURATION 3 years full-time
GUARANTEED ENTRY ATAR: 75 / IB: 27

PREREQUISITES
SACE Stage 2: 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 final frontier
Want to delve into the depths of our solar system? Explore the universe’s most distant galaxies?
This degree is taught by a faculty ranked number one in South Australia for Astronomical and Space Sciences research*, and has a five-star student satisfaction ranking for teaching quality**.

What will you do?
Our Bachelor of Science (Space Science and Astrophysics) places a strong emphasis on maths and physics. You will:
• work with, and learn from international researchers whose ground-breaking and award-winning discoveries are changing the way we understand our universe
• develop problem-solving skills critical to modern careers in physics, high-tech and space industries, and big data science
• have the opportunity to take part in project work with established scientists
• discover the fundamental processes which define our universe and our planet
• unravel the mysteries of space through core training in astronomy and space science
• supplement learning with other science, geoscience, and maths programs.

You’ll also have opportunities to take part in project work with established scientists, such as in the second-year subject Space Science and Astrophysics II. You’ll work in small groups to explore a particular aspect of astrophysics research—perhaps making optical observations with telescopes at our University observatory, or using data from satellite and ground-based observatories to understand the environments around extreme astronomical objects, like pulsars and supernovae.
And throughout the degree, you can apply for summer scholarships at the University and other institutions around Australia to undertake six-week research projects alongside professional astronomers and astrophysicists.

Will you engage with the Australian Space Agency
With the new agency located right next door to our campus, there could be opportunities to interact with industry, start-ups and space technology enterprises.

Where could it take you?
You might research star formation with a national space agency or be a planetarium director. You could forecast geomagnetic storms at the Bureau of Meteorology. Perhaps you’ll work in an observatory, publish a book or host the next award-winning space documentary.

* Excellence in Research for Australia, 2018.
** Student Experience Survey Teaching Quality Satisfaction Level, 2018.

Enter the world of supercomputers
Love calculations, formulas and data enabled science? Want to solve cutting-edge problems at the forefront of physics?
Computational physics is a rapidly growing and highly interdisciplinary research area. High-performance computations are an essential part of modern research in particle physics, condensed-matter physics, astrophysics, fluid mechanics, quantum field theory, quantum chromodynamics, and plasma physics.

What will you do?
In our Bachelor of Science (High Performance Computational Physics) (Honours) you will:
• find answers to cutting-edge problems using high-performance computing
• learn to program parallel supercomputers using state-of-the-art computer languages
• access the University’s supercomputer, Phoenix; a 300 teraflop high-performance computer
• immerse yourself in small group discovery experiences with like-minded peers
• take core courses in physics, mathematics and computer science
• apply sophisticated computing skills to modern physics problems.

In your final year Honours Program, you’ll dive deep into theoretical or computational physics and physics applications. This includes specialist research projects and courses.

Where could it take you?
Your advanced computational and mathematical skills will enable you to pursue a wide range of careers, everywhere from the computer industry—including cybersecurity and defence—to physics research and investment banking.

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

SATAC CODE 324171
CAMPUS North Terrace
DURATION 4 years full-time
GUARANTEED ENTRY ATAR: 90 / IB: 34

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

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Where could it take you?
Your advanced computational and mathematical skills will enable you to pursue a wide range of careers, everywhere from the computer industry—including cybersecurity and defence—to physics research and investment banking.
The University of Adelaide is one of only three universities in the world to be involved with finding the Higgs boson, high-energy neutrinos from an active galaxy, as well as the Nobel Prize-winning discovery of gravitational waves. And University of Adelaide students were part of all three projects.
BACHELOR OF LAWS AND BACHELOR OF SCIENCE

SATAC CODE
324111

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

CAMPUS
North Terrace

BACHELOR OF ENGINEERING (HONOURS) WITH BACHELOR OF SCIENCE

SATAC CODE
Various – search Degree Finder

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

CAMPUS
North Terrace

GUARANTEED ENTRY
ATAR: 80 / IB: 29

BACHELOR OF TEACHING (SECONDARY) WITH BACHELOR OF SCIENCE

SATAC CODE
334681

DURATION
4 years full-time

CAMPUS
North Terrace

This double degree prepares you to help educate and inspire the next generation of young scientists, who may go on to find employment in the rapidly growing science, technology, engineering and mathematics (STEM) fields. The degrees provide:

• extensive professional experience
• opportunity to specialise in teaching chemistry, biology, digital technology, earth and environmental science, maths, physics or psychology
• exposure to the school environment from first year
• accreditation to teach in South Australia and, in most cases, Australia and overseas.

With Australia facing a shortage of science teachers, graduates are in demand.

BACHELOR OF TEACHING (MIDDLE) WITH BACHELOR OF SCIENCE

SATAC CODE
334601

DURATION
4 years full-time

CAMPUS
North Terrace

RELATED DEGREES

BACHELOR OF MATHEMATICAL SCIENCES

SATAC CODE
324421

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

CAMPUS
North Terrace

PREREQUISITES
SACE Stage 2 Mathematical Studies
Specialist Mathematics

BACHELOR OF COMPUTER SCIENCE

SATAC CODE
314111

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

CAMPUS
North Terrace

PREREQUISITE
SACE Stage 2 Mathematical Studies

BACHELOR OF HEALTH AND MEDICAL SCIENCES

SATAC CODE
334691

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

CAMPUS
North Terrace

GUARANTEED ENTRY
ATAR: 80 / IB: 29

adelaide.edu.au/degree-finder
Search health

related degrees
SEIZE THE OPEN DAY

SUN 16 AUG 2020
9AM–4PM

adhlaide.edu.au/openday
UNDERGRADUATE DEGREE INDEX

Undergraduate degrees available at the University of Adelaide. Students with strong interests in more than one area of study may wish to consider a double or combined degree.

For a comprehensive list of available degrees, visit www.adelaide.edu.au/degree-finder

Business, Economics and Law
• Bachelor of Accounting
• Bachelor of Accounting and Corporate Finance
• Bachelor of Business Management
• Bachelor of Business Management and Accounting
• Bachelor of Business (Global)
• Bachelor of Commerce
• Bachelor of Corporate Finance
• Bachelor of Economics
• Bachelor of Economics (Advanced)
• Bachelor of Finance
• Bachelor of Innovation and Entrepreneurship
• Bachelor of International Business
• Bachelor of Laws
• Bachelor of Marketing
• Bachelor of Project Management
• Diploma in Business

Arts
• Bachelor of Arts
• Bachelor of Arts (Advanced)
• Bachelor of Creative Arts
• Bachelor of Criminology
• Bachelor of Environmental Policy and Management
• Bachelor of International Development
• Bachelor of International Relations
• Bachelor of Languages
• Bachelor of Media
• Bachelor of Music
• Bachelor of Music (Advanced)
• Bachelor of Music Theatre
• Bachelor of Peace and Conflict Studies
• Bachelor of Philosophy, Politics and Economics
• Bachelor of Sociology
• Bachelor of Teaching (Middle) with Bachelor of Arts
• Bachelor of Teaching (Middle) with Bachelor of Business Management
• Bachelor of Teaching (Middle) with Bachelor of Mathematical and Computer Sciences
• Bachelor of Teaching (Middle) with Bachelor of Music

Engineering, Computer and Mathematical Sciences
• Bachelor of Architectural Design
• Bachelor of Computer Science
• Bachelor of Computer Science (Advanced)
• Bachelor of Engineering (Honours) (Architectural and Structural)
• Bachelor of Engineering (Honours) (Chemical)
• Bachelor of Engineering (Honours) (Civil)
• Bachelor of Engineering (Honours) (Electrical and Electronic)
• Bachelor of Engineering (Honours) (Environmental)
• Bachelor of Engineering (Honours) (Mechanical)
• Bachelor of Engineering (Honours) (Mining)
• Bachelor of Engineering (Honours) (Petroleum)
• Bachelor of Engineering (Honours) (Petroleum) with majors
• Bachelor of Engineering (Honours) (Software)
• Bachelor of Engineering (Honours) – Flexible Entry
• Bachelor of Engineering (Honours) – Engineering pathway
• Bachelor of Information Technology
• Bachelor of Mathematical Sciences
• Bachelor of Mathematical Sciences (Advanced)
• Bachelor of Mathematical and Computer Sciences
• Bachelor of Technology (Construction)

Health
• Bachelor of Dental Surgery
• Bachelor of Health and Medical Sciences
• Bachelor of Health and Medical Sciences (Advanced)
• Bachelor of Medical Studies / Doctor of Medicine
• Bachelor of Nursing
• Bachelor of Occupational Therapy (Honours)
• Bachelor of Oral Health
• Bachelor of Physiotherapy (Honours)
• Bachelor of Psychological Science
• Bachelor of Psychology (Advanced) Honours
• Bachelor of Speech Therapy (Honours)

Sciences
• Bachelor of Agricultural Sciences
• Bachelor of Applied Data Analytics
• Bachelor of Food and Nutrition Science
• Bachelor of Science
• Bachelor of Science (Honours)
• Bachelor of Science (Advanced)
• Bachelor of Science (Advanced) (Honours)
• Bachelor of Science (Animal Behaviour)
• Bachelor of Science (Animal Science)
• Bachelor of Science (Biomedical Science)
• Bachelor of Science (Biotechnology)
• Bachelor of Science (High Performance Computational Physics) (Honours)
• Bachelor of Science (Marine Biology)
• Bachelor of Sciences (Mineral Geoscience)
• Bachelor of Science (Space Science and Astrophysics)
• Bachelor of Science (Veterinary Bioscience)
• Bachelor of Science (Wildlife Conservation Biology)
• Bachelor of Veterinary Technology
• Bachelor of Viticulture and Oenology
How to apply

Applications to University of Adelaide undergraduate programs are made online via SATAC: www.satac.edu.au

International students should refer to: 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), Subject-based entry, STAT, TAFE, preparatory programs, foundation study and more. To find out more about the available pathways, visit adelaide.edu.au/study/undergraduate and select ‘Entry Pathways’ from the menu.

Fees and costs

In 2020, student contributions for Commonwealth supported students studying an equivalent full-time study load were as follows.

<table>
<thead>
<tr>
<th>Band</th>
<th>Subject Areas</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band 1:</td>
<td>Humanities, behavioural sciences, social studies, foreign languages, visual and performing arts, education, nursing, clinical psychology</td>
<td>$6,684</td>
</tr>
<tr>
<td>Band 2:</td>
<td>Computing, built environment, allied health, other health, engineering, surveying, agriculture, science, mathematics, statistics</td>
<td>$9,527</td>
</tr>
<tr>
<td>Band 3:</td>
<td>Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce</td>
<td>$11,155</td>
</tr>
</tbody>
</table>

Deferring your studies

Most undergraduate degrees can be deferred for up to two years. Please refer to specific degrees for exceptions.

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: 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 2020, the SSAF amount for full-time students was $308, and for part-time students it was $231. Fees may increase in 2021. Eligible students may defer this fee to an SA-HELP loan. For further information about the SSAF and SA-HELP visit: 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 adelaide.edu.au/student/finance and select ‘Other Fees and Charges’.

Adjustment factors

SATAC centrally administer a South Australian Universities Adjustment Factors Scheme. The two schemes are the SA Universities Equity Scheme and the SA Language, Literacy and Mathematics Adjustment Factors Scheme. For more details, visit adelaide.edu.au and search ‘adjustment factors’.

Degree intake

Many undergraduate degrees will allow students to begin study in February or July. Please refer to individual degrees on Degree Finder (adelaide.edu.au/degree-finder) to check whether midyear entry is available. Where Degree Finder states ‘subject to availability’ applicants should contact Ask Adelaide (refer below for details) to check whether midyear entry is available.

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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 and recognised tests and requirements are available by visiting international.adelaide.edu.au/apply and selecting ‘Admissions Information’ from the menu, then ‘English Language Requirements’.

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 Future Student Enquiries.

Accommodation

The University understands that finding the right accommodation is important to successful study. For accommodation options and costs please visit: adelaide.edu.au/accommodation

Admission transparency

We believe in providing clear and relevant information to help student choose the best university and degree to study. Find out more, visit adelaide.edu.au/study/undergraduate/admissions-information

More information

Answer your questions using our online Knowledge Base or our helpful staff can respond via email to your enquiries. Please see back cover for contact details.

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More information

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KAURNA ACKNOWLEDGEMENT

We acknowledge and pay our respects to the Kaurna people, the original custodians of the Adelaide Plains and the land on which the University of Adelaide’s campuses at North Terrace, Waite, and Roseworthy are built. We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs. The University continues to develop respectful and reciprocal relationships with all Indigenous peoples in Australia, and with other Indigenous peoples throughout the world.