THE UNIVERSITY of ADELAIDE

2017 Undergraduate

Sciences

Agriculture, Food and Wine | Animal and Veterinary Sciences | Biological Sciences | Physical Sciences

adelaide.edu.au

seek LIGHT

Why the University of Adelaide?

Our legacy becomes your career advantage

With a degree from a university consistently ranked in the top 1% globally and a 140-year tradition of preparing tomorrow's leaders, University of Adelaide students graduate with a global career advantage.

Our students are highly regarded and professionally recognised around the world, and students are well prepared to take advantage of the opportunities this recognition can bring. Working closely with our world-class teaching staff, they acquire the skills, knowledge and experience to make a significant contribution in their chosen field.

Adelaide has a long and proud tradition that distills 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 ongoing 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 shaping the educational, political and social arenas of their day.

With us, students are motivated to achieve their best and are supported by an inspiring educational community committed to helping them.

1

Ranked in the
top 1% of universities worldwide

Associated with
5 Nobel prize winners

Member of the
Group of Eight

Produced over
100 Rhodes scholars

Why Sciences?

Science graduates are perfectly equipped with the skills employers' value and the flexibility to navigate our fast-paced world, in which a new career is just around the corner.

Unlimited careers

Studying science can take you almost anywhere. There are the traditional jobs most of us would readily associate with science; for example, being a researcher in a research institution seeking answers to any number of important questions, or working for an organisations tasked with monitoring and testing everything from water quality through to the blood sample you leave with your doctor. But there's also the non-traditional and the not-even-invented-yet career paths that open up to you as a science graduate.

Studying a science program with us is a solid foundation for a long and rewarding career in a number of sectors, including some you may not have even thought about, such as business and finance, education, and communications. And thanks to the speed of technological innovations, the career you go into as a science graduate in a few years' time may not even exist yet. Just think about some of today's technology—the smart phone, for example, did not exist a few short years ago and yet now drives entirely new industries.

This diversity of opportunity enables science graduates to adapt their careers rather than being locked into a specific vocational pathway;

a very useful thing in the current and future employment market, in which graduates are expected to undertake three to five career (not just job) changes in their working life.

There are rewards for science graduates too. The median starting salary for science-related bachelor degree graduates is between $46,000 and $60,000 p.a. depending on the field of science studied[1]. The more you study, the more you earn, with starting PhD graduate salaries jumping to a median of between $78,000 and $90,000 p.a. depending on the field of study[1]. Studying science at the University of Adelaide also sets you up to succeed. Graduates from Group of Eight Universities earn about 10% more over their lifetime[2].

[1] *Source: Graduate Salaries, 2014 GCA*

[2] *Mapping Australian Higher Education, 2014-15, Grattan Institute*

Teaching led by research and innovation

Every student in the Faculty of Sciences benefits from our rich tradition of outstanding teaching and learning. The learning experiences we offer are based on cutting edge research, and our graduates are both career-ready and poised to make an impact on society because of this exposure to teachers who are themselves leaders in their field.

The Faculty of Sciences also focusses its curriculum on the 10 Big Questions of the future, such as climate change, biodiversity loss, feeding the world and food security. By providing our students with a more relevant curriculum, placing it in a context that everyone will understand and value, we aim to make the study of science more appealing and highly sought after as a pathway to a diverse range of careers.

In synergy with our refocus on the 10 Big Questions, we've taken innovation to the next level with the use of mobile devices to create a more interactive and collaborative learning environment for undergraduate science students. This has allowed us to deliver outstanding online course content, provide a more flexible educational experience for the student, and implement a greater level of interactivity in the classroom. Thanks to this initiative, our teaching material has become more accessible, relevant and more frequently updated—reducing printing demands and text book costs, and enabling the next generation of students to study any time and anywhere.

The Faculty of Sciences teaching staff are firmly committed to interactive learning that will provide a relevant curriculum for our students. Our programs and initiatives such as these will evolve to suit their changing needs.

Support services

Studying at university can be exciting, but also challenging, with many new experiences and things to learn. That's where our First Year Experience Program comes in.

We want to make the transition as easy as possible, and that starts when you enrol. We provide face-to-face enrolment advice and support to get you off to a good start. The Faculty of Sciences Mentoring Program matches small groups of new students with a more seasoned science student who will stay in touch throughout your first semester for peer support.

And if you need help with your studies, we offer a range of drop-in services across the main first-year courses and participate in the Peer-Assisted Study Sessions (PASS) program, where students help other students to learn. Combined with the other University-wide support services, there's plenty of help on hand should you need it. Just ask!

e-Science

Discover the University of Adelaide's science research, one breakthrough at a time.

Produced by the Faculty of Sciences, *e-Science* is a 100% free electronic science magazine for teachers, students and anyone interested in the scientific world. Science comes alive with exciting online content and resources about cutting edge research.

Each issue includes:

- articles written by researchers linked to the 10 Big Questions facing planet Earth
- interactive multimedia to bring the science to life
- resources and activities that further explore scientific concepts
- links to the Australian curriculum.

Available in the Apple app store and at:
sciences.adelaide.edu.au/e-science

75 Adelaide Approved

A wide range of University of Adelaide programs now have a pre-set entry score known as the Adelaide Approved score, instead of a cut-off that varies each year.

For Adelaide Approved sciences programs* just meet the prerequisites, achieve a **75 ATAR** or above (including bonus points if eligible) and you're in.

It's simple, straightforward and takes the stress out of university entry. If you think you'll score under 75, don't stress. There are still opportunities to study science at Adelaide.

For more details visit **www.adelaide.edu.au** and search 'adelaide approved'.

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

Life experience through 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.

For more information, visit:
www.adelaide.edu.au/global-learning

Small group discovery

There is a commitment to give all students the opportunity to learn in small groups, peer-to-peer and under the guidance of leading academics and researchers. This experience will enhance students' initiative and creativity, and maximise the benefits of studying in a research-intensive university.

For more information, visit:
www.adelaide.edu.au/VCO/beacon/small-group

Aboriginal and Torres Strait Islanders

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, schemes and preparation programs designed to support the desire to gain educational outcomes. Wirltu Yarlu is a place where students can soar to new heights.

For more information, visit:
www.adelaide.edu.au/wirltu-yarlu

Advanced Bachelors

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 programs provide a unique, close-quarters learning experience with academics of international distinction.

For more information, visit:
www.adelaide.edu.au/degree-finder

Fit uni into life

This diary snapshot is only one example of how a student may choose to schedule their university study and life. Attendance at university is less structured than time spent at high school. The hours spent on campus in lectures, tutorials, practicals or in the field—known as 'contact hours'—depend on the program students enrol in, study mode selected (internal, external, online or flexible learning) and course choices.

Indicative pathways

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

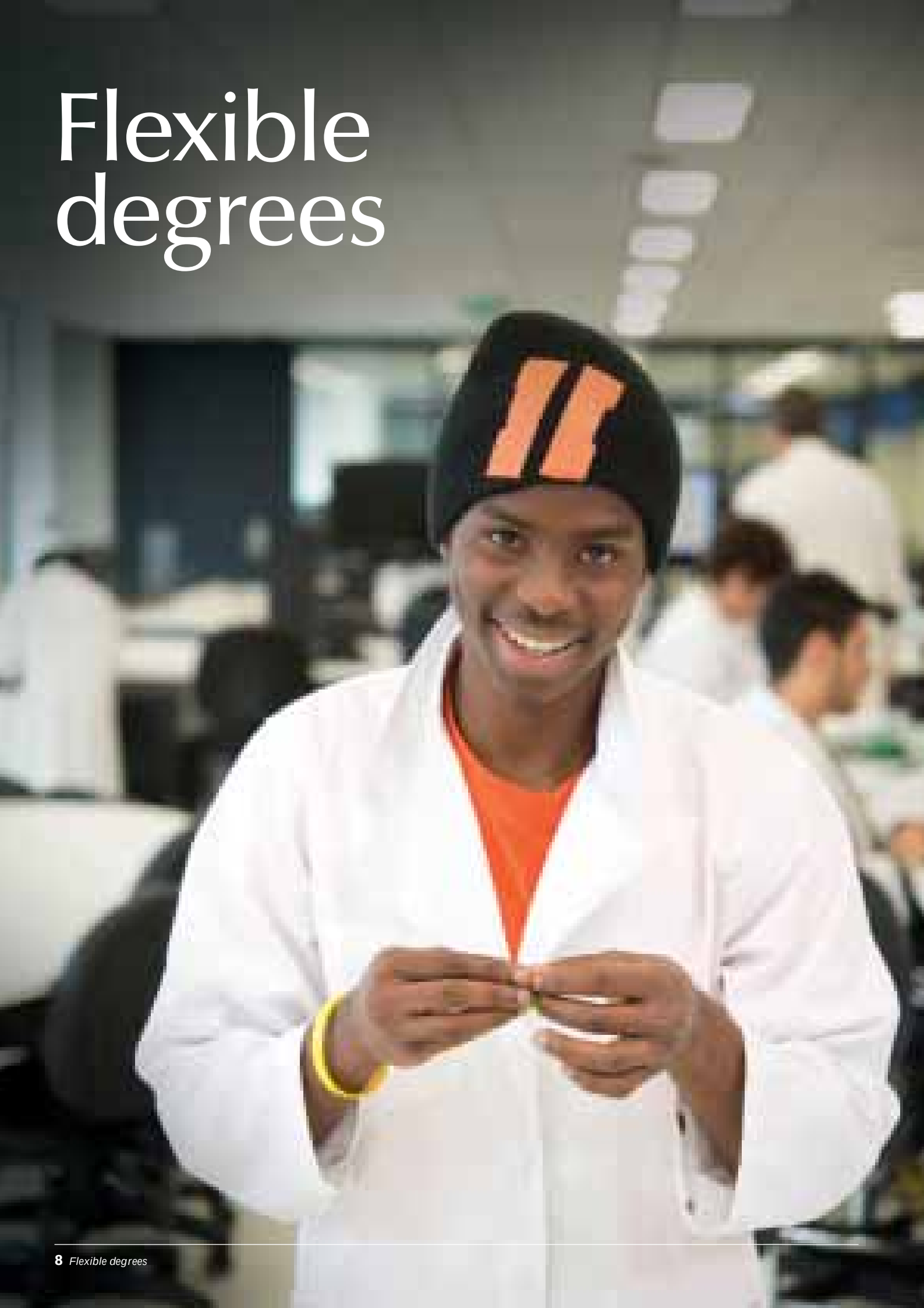
Study pathways

Degree programs	Essential prerequisite SACE Stage 2 subjects	Recommended SACE Stage 2 background (assumed knowledge)
Bachelor of: Science Science (Advanced)	None, unless you wish to major in Chemistry or Physics, in which case the following level 1 (first year) prerequisites apply. **Chemistry major:** Chemistry. (It is possible to follow a Chemistry major without meeting the prerequisite, but it is dependent on students' level 1 university results.) **Physics major:** Physics, Mathematical Studies and Specialist Mathematics.	Chemistry, Mathematical Studies and Physics.
Bachelor of: Science (Energy Geoscience)	**Two subjects chosen from:** Biology, Chemistry, Geology, Physics, Scientific Studies, Mathematical Methods, Mathematical Studies, Specialist Mathematics, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition. Only one Mathematics subject can be counted.	None.
Bachelor of: Science (Mineral Geoscience)	**Two subjects chosen from:** Biology, Chemistry, Geology, Physics, Scientific Studies, Mathematical Methods, Mathematical Studies, Specialist Mathematics, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition. Only one Mathematics subject can be counted.	Chemistry, Mathematical Studies and Physics.
Bachelor of: Science (Biomedical Science)	**Chemistry and one of:** Biology, Geology, Physics, Scientific Studies, Mathematical Methods, Mathematical Studies or Specialist Mathematics, Agriculture and Horticulture, Agricultural and Horticultural Science or Nutrition.	Mathematical Studies and Physics.
Bachelor of: Science (Veterinary Bioscience)	Mathematical Studies and Chemistry.	Physics.
Bachelor of: Science (Biotechnology)	Mathematical Studies and Chemistry.	
Bachelor of: Science (Laser Physics and Technology) Science (Space Science and Astrophysics) Science (High Performance Computational Physics) (Honours)	Mathematical Studies, Specialist Mathematics and Physics.	None.
Bachelor of: Agricultural Sciences Food and Nutrition Science Science (Animal Science) Science (Marine Biology) Viticulture and Oenology	None.	Chemistry and Mathematical Studies.
Bachelor of: Applied Biology Science (Wildlife Conservation Biology)	None.	None.

Career pathways

Discipline	Degree programs	Potential career pathways		
Agriculture	**Bachelor of:** Agricultural Sciences Applied Biology Science (Animal Science) Science (Veterinary Bioscience) Viticulture and Oenology Science/Bachelor of Teaching	Agricultural consultant Agronomist Animal health officer Animal welfare Animal/veterinary technician Catchment management Conservation biologist Ecologist Environmental consultant	Environmental project officer Grower Horticulturist Journalist Park management officer Product development coordinator Quarantine officer Plant biotechnologist Resource manager	Rural banker Science communicator Soil scientist Teacher Vet Vineyard manager Viticulturist Winemaker Zookeeper
Biology	**Bachelor of:** Agricultural Sciences Applied Biology Food and Nutrition Science Science Science (Advanced) Science (Animal Science) Science (Biomedical Science) Science (Biotechnology) Science (Marine Biology) Science (Veterinary Bioscience) Viticulture and Oenology Science (Wildlife Conservation Biology) Science/Bachelor of Teaching	Agricultural consultant Agronomist Animal health officer Animal/veterinary technician Bioinformatics Botanist Clinical scientist Conservation biologist Diagnostic technician Embryologist Environmental biologist	Environmental remediation officer Food scientist Food technologist Forensic scientist Life scientist Marine biologist Medical research scientist Meteorologist Neuroscientist Nutritionist	Palaeontologist Pharmaceutical scientist Plant biotechnologist Public health Quarantine officer Research scientist Seismologist Teacher Vet Viticulturist Winemaker
Chemistry	**Bachelor of:** Agricultural Sciences Food and Nutrition Science Science Science (Advanced) Science (Biomedical Science) Science (Biotechnology) Viticulture and Oenology Science/Bachelor of Teaching	Analytical chemist Bioinformatics Biotechnologist Environmental consultant Environmental remediation officer Environmental project officer	Food scientist Food technologist Forensic scientist Geochemist Materials scientist Nanotechnologist Nutritionist	Pharmaceutical scientist Research scientist Soil scientist Marine biologist Research scientist Resource manager
Environmental Science	**Bachelor of:** Science Science (Advanced) Science (Marine Biology) Science (Wildlife Conservation Biology)	Analytical chemist Biodiversity assessment officer Conservation biologist Ecologist	Environmental consultant Environmental project officer Environmental remedial officer Environmental scientist	Marine biologist Research scientist Resource manager
Geology	**Bachelor of:** Science Science (Advanced) Science (Energy Geoscience) Science (Mineral Geoscience)	Engineering geologist Environmental geologist GIS officer Mine geologist	Mineral exploration Petroleum exploration Petrophysicist Resource manager	
Physics	**Bachelor of:** Science Science (Advanced) Science (High Performance Computational Physics) (Honours) Science (Laser Physics and Technology) Science (Space Science and Astrophysics) Science/Bachelor of Teaching	Biophysicist Climate and ecosystem modeller Communications analyst Computational physicist Computing specialist Defence industry scientist	Environmental scientist Meteorologist Petrophysicist Remote sensing scientist Research scientist Space scientist Systems analyst	

Flexible degrees



Not everyone knows what they want to study, and some just want the flexibility to design their own degree from a broad range of study options. Our flexible degrees allow you to pursue pathways in one or more areas of science.

75 Adelaide Approved*
ATAR

92% Science graduate employment

75% Fastest growing occupations
require STEM subjects

3 Top three
desirable employee skills

** Bachelor of Science (Advanced) has an Adelaide Approved score of 95.*

The choice is yours

Both the Bachelor of Science (BSc) and the Bachelor of Science (Advanced) (BSc (Advanced)) are designed for maximum flexibility, and students are encouraged to explore the full breadth of scientific options before selecting one or more areas of specific interest in their later years.

Areas of specialisation include majors in the Biomedical Sciences and Molecular Biology, Chemical Sciences, Earth Sciences, Evolutionary Biology and Ecology, Physics, Soil Science and Spatial Information Science.

The skills employers want

Science students learn a number of transferable skills that are in demand in a wide range of careers, not just those in traditional scientific fields.

These skills include analytical methods, critical thinking and problem-solving, information technology and literacy skills, teamwork, initiative and the ability to communicate and cooperate with people from a range of backgrounds and expertise. So, you may be surprised to find that the top five industries of employment for students who graduate with a science-related major here in Australia are business services; education; government; health, medical and pharmaceutical; and information and communications technology.*

**Source: Australian Graduate Survey, 2008 GCA.*

Double, combined and concurrent degrees

Sciences can be studied successfully with other degrees to broaden the scope of your career path such as:

> Bachelor of Arts and Bachelor of Science
> Bachelor of Law and Bachelor of Science
> Bachelor of Teaching and Bachelor of Science

Students who successfully complete a combined degree have both degrees listed on the one parchment.

Concurrent studies may be an option for students who would like to study a second degree that has not already been packaged with their first degree of choice.

There are a number of double and combined undergraduate degree options available. For more details visit: www.adelaide.edu.au and search 'double degree'.

Further study options

If you want to go on to further studies, or perhaps pursue a research qualification, these programs are excellent preparation for a range of further study options.

These include honours and higher degrees by research in your chosen science discipline, or graduate studies in areas such as nutrition, medicine, chiropractic, physiotherapy, pharmacy and teaching.

Bachelor of Science

SATAC CODE	ATAR	IB SCORE
314581	65.15	24
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time

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 Studies 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.

ASSUMED KNOWLEDGE

- SACE Stage 2 Chemistry
- Mathematical Studies
- Physics

adelaide.edu.au/degree-finder
Search ***science***

The Bachelor of Science program is ideal for students who enjoy, and are inspired by, the breadth of science. It provides the most flexibility, due to its diverse range of course offerings from a number of disciplines.

In the first year level, students enrol in a combination of courses that prepares them to follow pathways through to major study areas in third-year. Science students learn a number of transferable skills, including: analytical methods, laboratory and field techniques, information technology skills, teamwork, initiative, and the ability to communicate and cooperate with people from varied backgrounds and expertise. These are highly sought-after skills that are useful in a wide range of careers and are not limited to scientific areas.

Areas of specialisation

> Anatomical Sciences
> Biochemistry
> Chemistry
> Evolutionary Biology
> Genetics
> Microbiology and Immunology
> Pharmacology
> Physiology
> Chemistry
> Geology
> Geophysics and Applied Geology
> Ecology
> Ecology and Spatial Science
> Experimental and Theoretical Physics
> Physics
> Theoretical Physics
> Soil Science

Career opportunities

Science graduates gain a wide range of skills that can lead to a variety of careers in:

> business
> the defence industry
> environmental sciences
> government departments
> hospitals and health organisations
> intellectual property
> laboratory research and development
> management
> minerals and energy
> the oil and gas industry
> research
> private industry and consulting
> sales and consultancy
> science communication, journalism
> teaching and lecturing
> universities.

Indicative study plan

Level 1

Core course:

> Principles and Practice of Science

Additional courses chosen from the areas of:

> Biology
> Chemistry
> Geology
> Physics

Level 2

Courses chosen from the following areas depending on choice of major:

> Biochemistry
> Environmental Biology
> Genetics
> Geology
> Microbiology
> Chemistry
> Physics
> Soil and Water

Level 3

One major chosen from the following:

> Biochemistry
> Chemistry
> Ecology
> Evolutionary Biology
> Geology
> Geophysics and Applied Geology
> Genetics
> Microbiology and Immunology
> Molecular and Biomedical Science
> Physics
> Theoretical Physics
> Soil Science

or a double major from:

> Ecology and Spatial Science
> Experimental and Theoretical Physics

Bachelor of Science (Advanced)

SATAC CODE	ATAR	IB SCORE
324651	95	35
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	95	3 years full-time

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 Studies 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.

ASSUMED KNOWLEDGE

- SACE Stage 2 Chemistry
- Mathematical Studies
- Physics

ADDITIONAL ENTRY REQUIREMENTS

Year 12 applicants must obtain an Australian Tertiary Admissions Rank (ATAR) of 95 or higher (or equivalent).

adelaide.edu.au/degree-finder
Search ***science + advanced***

The Bachelor of Science (Advanced) (BSc (Advanced)) is designed for high-achieving students who wish to develop their knowledge and understanding of science, with a strong emphasis on research skill development.

This program provides students with the early opportunity to participate in the academic and research culture of the scientific areas they are most interested in, while still providing the choice and flexibility of a Bachelor of Science.

BSc (Advanced) students participate in program-specific courses that will introduce topics on processes, communication and methods used in science research. Students will also participate in structured research activities and research seminars, normally only available to honours and postgraduate students.

In addition, a semester-long research placement and lab attachments will provide breadth of experience. These activities will allow associations with academic staff in major research areas, providing early access to research laboratories/ projects that can be further developed for an Honours year and postgraduate study (Masters or PhD).

To remain in this highly competitive program, students must maintain a minimum Grade Point Average (GPA) of 5 throughout their candidature. Similarly, students who attain a predetermined GPA will automatically be eligible for a place in the BSc (Hons) program upon completion of the BSc (Advanced).

Areas of specialisation

> Biochemistry
> Chemistry
> Ecology
> Ecology and Spatial Science
> Evolutionary Biology
> Geology
> Genetics
> Geophysics and Applied Geology
> Microbiology and Immunology
> Physics
> Theoretical Physics
> Soil Science
> Experimental and Theoretical Physics

Career opportunities

Potential careers include:

> analytical chemist
> cancer researcher
> environmental scientist
> food and wine producer
> food scientist
> food technologist
> geneticist
> geologist
> hydrologist
> laboratory technician
> marine biologist
> meteorologist
> mineral exploration scientist
> nanotechnologist
> natural resource manager
> neuroscientist
> oceanographer
> oil and gas analyst
> palaeontologist
> physicist
> plant breeder
> research and development officer
> science teacher
> scientific journalist
> scientific researcher
> toxicologist

Indicative study plan

Level 1

Core course:

> Principles and Practice of Science (Advanced)

Additional courses chosen from a range of science offerings that complement a student's interests and build towards two science majors listed below.

Level 2

Core course:

> Principles and Practice of Research (Advanced) II

Additional courses chosen from a range of science offerings and that maintain study in the area of two science majors listed below.

Level 3

Core course:

> Principles and Practice of Research (Advanced) III

Additional courses chosen from a range of science offerings that complete the study required to achieve at least one science major as listed below.

Science majors

> Biochemistry
> Chemistry
> Evolutionary Biology
> Ecology
> Ecology and Spatial Science
> Geology
> Genetics
> Geophysics and Applied Geology
> Microbiology and Immunology
> Physics
> Theoretical Physics
> Soil Science
> Experimental and Theoretical Physics

Agriculture, Food and Wine

Claire Dixon

Bachelor of Applied Biology

> ‘I have had the chance to work with leading industry professionals and the chance to discover what my true passions are.’

Degrees in the Agricultural, Food and Wine Sciences combine theoretical learning with a healthy dose of practical, hands-on application; ideal for those looking for a strong connection with industry throughout their training.

75 Adelaide Approved ATAR

$50k Median graduate starting salary

71% Graduates employed in a few months

17% Predicted sector growth

See the big picture

The School of Agriculture, Food and Wine provides a world-class concentration of scientific research and education at the Waite campus. Programs in the school connect scientific excellence with relevance, so you always know the practical applications of your learning.

The extensive international network of academic and commercial collaborators provides a stimulating and unique environment for student training.

By being exposed to the latest technologies and learning from leaders in their respective research fields, graduates are able to enter the workforce with confidence and awareness of the latest research developments, enabling them to 'see the big picture'.

This explains why more than 95% of graduates from the school are employed within 12 months of graduation.

Waite campus

Waite campus is located on 174 hectares in the Adelaide foothills with a view to the sea and the city, just 15 minutes away from North Terrace by car or bus. The campus includes the internationally renowned Waite Research Institute, Waite Arboretum, Urrbrae House Historic Precinct and Waite Conservation Reserve.

In addition to the School of Agriculture, Food and Wine, the Waite is home to a number of co-located research partners. The University of Adelaide staff and students work with people from these organisations, giving them a unique opportunity to gain practical and theoretical knowledge through participation in ongoing national and international research projects.

Waite campus is a centre for excellence in molecular plant breeding, horticulture, viticulture, oenology, integrated pest management, weed management and soil and water management.

Bachelor of Agricultural Sciences

SATAC CODE	ATAR	IB SCORE
324561	66.1	24
CAMPUSES	**ADELAIDE APPROVED SCORE**	**DURATION**
Waite and Roseworthy	75	3 years full-time

ASSUMED KNOWLEDGE
- SACE Stage 2 Chemistry
- Mathematical Studies

adelaide.edu.au/degree-finder
Search ***agriculture***

The Waite and Roseworthy campuses are recognised as centres of excellence in agricultural science. While the majority of the degree is based at the Waite campus, education in livestock production and the practical component of agronomy is based at Roseworthy. This reputation underpins the Bachelor of Agricultural Sciences program, which trains students in the physical, biological, technological and economic bases of modern agricultural systems.

The program is designed to demonstrate how scientific and economic principles are applied to manage agricultural systems and the natural resources on which these systems depend.

Career opportunities

Graduates are highly sought after for positions in a range of rural industries, including consulting in the livestock and cropping industries, banking and research, as well as related areas in natural resource management. Employment opportunities include those in:

> advisory and regulatory services

> agricultural and business consulting

> agricultural production

> agronomy

> banking and rural finance

> managing commercial enterprises

> journalism, communication and marketing

> research and technical work

> secondary, tertiary and vocational education.

Bachelor of Applied Biology

SATAC CODE	ATAR	IB SCORE
324851	70.45	25
CAMPUSES	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace and Waite	75	4 years full-time

adelaide.edu.au/degree-finder
Search ***biology***

The Bachelor of Applied Biology at the University of Adelaide offers a unique combination of theoretical learning and professional practice in the discipline of applied biology. The program focusses on both biological knowledge and the multitude of ways in which biology contributes to employment and productivity.

Depending on course choice, students can complete a major program of study in agribiotechnology, biochemistry, genetics, or microbiology and immunology. Offering a unique student experience, the program includes the opportunity for a full semester of overseas study at a University of Adelaide priority partner institution and a semester of placement within a relevant industry, government or research organisation.

Career opportunities

Graduates of the program can expect to find employment in many organisations and industries in which biological knowledge and practices are used, including:

> research institutes and laboratories

> biotechnology companies

> agricultural and environmental organisations

> food and beverage technology

> government and regulatory offices

> intellectual property management.

Bachelor of Food and Nutrition Science

SATAC CODE	ATAR	IB SCORE
314761	67.15	24
CAMPUSES	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace, Waite and Regency Park	75	3 years full-time

ASSUMED KNOWLEDGE
- SACE Stage 2 Chemistry
- Mathematical Studies

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

This program provides students with skills and knowledge in food science and human nutrition. Students will learn how to design, formulate, produce and package everyday and specialty foods with specific functional and nutritional properties. They will learn the importance of developing a sustainable, nutritious and healthy food supply and complete a placement in the food industry or a nutrition/health-related organisation. A pre-dietetics pathway is included in the program.

Career opportunities

A wide range of career opportunities exist in the food industry, government and non-government organisations, including: quality control and auditing, nutritional advice and support, new product development, marketing and labelling, research in both food science and nutrition areas, and public health nutrition. Our graduates secure roles with ample opportunities for career progression into management and leadership positions, including:

> food technologist, technical officer or manager

> laboratory assistant or manager

> marketing manager, product development assistant

> quality assurance officer, supervisor or manager

> food scientist/researcher

> research student (honours and PhD).

Bachelor of Viticulture and Oenology

SATAC CODE	ATAR	IB SCORE
324611	66.05	24
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
Waite	75	4 years full-time (or part-time equivalent)

ASSUMED KNOWLEDGE

- SACE Stage 2 Chemistry
- Mathematical Studies

adelaide.edu.au/degree-finder
Search ***viticulture + wine making***

Throughout this program, there is an emphasis on the key technical methods and sensory skills (wine tasting and evaluation) required for a career in viticulture and oenology.

Students completing this four-year degree will qualify as both a viticulturist and winemaker (oenologist).

Career opportunities

Employment opportunities exist for graduates in wine and related industries, directing and developing winemaking and viticultural practices, including:

> viticultural management

> winemaking and winery management

> food and beverage technology

> hospitality and tourism.

Biological Sciences

Sarah Hamlyn

Bachelor of Science (Marine Biology)

> ‘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.’

As a Biological Sciences student, you will be part of a community of researchers and fellow students working on the big questions for the future, whether your passion is unravelling the causes of human disease or the ecological impacts of climate change.

75 Adelaide Approved **ATAR**

$50k Median graduate starting salary

46% Graduates who pursue further study

10% Predicted employment growth

World expertise

The School of Biological Sciences has a world-class concentration of scientific expertise and facilities and offers high-quality undergraduate degrees in many biological fields, both through the named degree programs listed in the following pages and through many of the majors in the BSc and BSc (Advanced) degrees.

Teaching in the biological sciences is informed by the research strengths of the school, so students are equipped with the very latest knowledge and learn the cutting edge techniques used in their field. This also means students in the biological sciences are well equipped to continue into an honours program and further research training, such as a masters or PhD.

Health and disease

In those courses and degrees aligned with the biomedical sciences, students are taught by world-class researchers about the understanding of, and pursuit of potential cures for, major diseases, such as cancer, while exploring how biological processes function at a molecular level.

Students can learn about the manufacture of biological molecules, and how through gene technology genes may be manipulated in beneficial ways.

The natural world

Studies in degrees and courses with a focus on the natural world enable students to investigate the diversity of life on earth and the relationships between organisms and their environments.

Students learn about soils, plants and animals, their ecology, conservation and management, physiology and evolution, including those in terrestrial, freshwater and marine systems.

Fieldwork and the study of South Australian ecosystems are important components of many later-year courses.

Bachelor of Science (Biomedical Science)

SATAC CODE	ATAR	IB SCORE
314091	73.15	25
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: Chemistry plus one of Physics, Mathematical Studies, Specialist Mathematics, Mathematical Methods, 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).

ASSUMED KNOWLEDGE

- SACE Stage 2 Mathematical Studies
- Physics

adelaide.edu.au/degree-finder
Search ***biomedical***

This degree focuses on the biomedical aspects of biology, including the normal and abnormal function of the human body. The emphasis is on modern biomedical knowledge and research approaches used to gain that knowledge. Students are taught by world-class biomedical researchers and experienced educators, and have the opportunity to pursue a research project as an introduction to modern biomedical research.

Areas of specialisation

> Biochemistry

> Genetics

> Microbiology and Immunology

Career opportunities

Graduates have the knowledge and experience appropriate for commencing a career in biomedical research, including in hospital laboratories, research institutes, universities or private companies. It is common for graduates to continue their research training by enrolling in a Master of Philosophy or honours program. Many graduates have successfully used this program as a pathway towards further study in graduate-entry medicine or allied health programs.

Graduates of this program are likely to be found as scientists in:

> clinical or research laboratories

> biomedical, biotechnology and pharmaceutical industries.

Bachelor of Science (Biotechnology)

SATAC CODE	ATAR	IB SCORE
314691	88.25	31
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: Mathematical Studies and Chemistry.

IB: Mathematics (SL grade 4/HL grade 3) and Chemistry (SL grade 4/HL grade 3).

adelaide.edu.au/degree-finder
Search ***biotechnology***

The modern biotechnology field is constantly evolving. It uses many current technologies, such as protein production and purification, genomics and combinational chemistry, to produce foods, drugs and other products.

The Bachelor of Sciences (Biotechnology) provides training in both the molecular basis for biotechnology and the bioprocess technology required for the development of biotechnology products. The degree is based around the recognised research strengths of the University of Adelaide in molecular biology, animal, plant and microbial biotechnology, structural biology and bioprocess engineering. It provides students with a unique cross-disciplinary approach, which incorporates expertise from the Faculty of Sciences and the Faculty of Engineering, Computer and Mathematical Sciences.

Area of specialisation

> Biochemistry

Career opportunities

Employment opportunities exist for graduates in:

> biomedical biotechnology, medical diagnostics and vaccine discovery

> development of genetically modified organisms

> ethics and regulatory organisations

> innovative laboratory-based research science

> management of biotechnology industries and enterprises

> patent law (with appropriate qualifications)

> pharmaceutical industries

> plant and animal breeding and improvement.

Bachelor of Science (Marine Biology)

SATAC CODE	ATAR	IB SCORE
324431	65.35	24
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

ASSUMED KNOWLEDGE

- SACE Stage 2 Chemistry
- Mathematical Studies

adelaide.edu.au/degree-finder
Search ***marine***

Marine Biology is all about the largest and most diverse ecosystem on the planet—the sea. It is strange that our planet is named Earth when most of it is sea, and stranger that many graduates train in tropical seas when the bulk of jobs are in temperate (Antarctic to sub-tropical) seas. Most of Australia's population lives on temperate coasts. For this reason, we prepare graduates for work on these coasts by demonstrating the problems and needs facing marine industry and conservation.

Students of this degree have access to staff who are nationally and internationally acclaimed for research excellence. There is also a strong emphasis on providing students with field experience. Students use the same equipment that is used in pioneering research across the northern and southern hemispheres.

This degree prepares graduates for careers in marine biology via training in the use of coherent, logical procedures and rigorous experimental planning for practical work in the field and laboratory. There is demand for people with these skills in temperate marine biology.

Career opportunities

Employment opportunities exist for graduates in:

> conservation groups

> consultancy firms

> councils

> environmental protection agencies

> state governments

> university research laboratories

> water authorities.

Job requirements may include:

> collecting data and resources by SCUBA and boats

> managing fisheries and coastal planning

> monitoring climate change and water quality

> policy formation and creating marine protected areas.

Bachelor of Science (Wildlife Conservation Biology)

SATAC CODE	ATAR	IB SCORE
324911	70.95	25
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

adelaide.edu.au/degree-finder
Search ***wildlife***

The Bachelor of Science (Wildlife Conservation Biology) offers students the core scientific knowledge and practical skills required for challenging careers in wildlife conservation and biodiversity management.

The degree focuses on the practical application of science to solving the many urgent and confronting issues in wildlife conservation. Students emerge with a solid biological foundation on which they superimpose training in the ecology and management of wildlife in natural, as well as human-altered, environments.

Career opportunities

Graduates of the degree will be prepared for careers in the growing number of sectors and 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.

Physical Sciences

> ‘Uni to me has been the perfect transition from school into a working career. I’ve learnt how to work in teams and individually in environments not necessarily provided throughout my high school experiences.’

Jack Maughan

Bachelor of Science (majoring in Geology)

The School of Physical Sciences enhances our understanding of the physical world through observations, experiments and theory in the core disciplines of Chemistry, Earth Sciences and Physics. We conduct world-leading research, which directly contributes to the undergraduate experience.

75 Adelaide Approved* ATAR

$60k Median graduate starting salary

22% Graduates employed before they graduate

47% Graduates who pursue further study

11% Predicted sector growth

**Except B.Science (High Performance Computational Physics)(Honours) which has an Adelaide Approved score of 90.*

Preeminent student experience

Our school's scientists collaborate with a wide variety of national and international universities and cutting edge international projects, and bring this experience into the classroom. Our programs equip students for a wide range of science and non-science careers. Students develop deep discipline-specific knowledge as well as the skills required for graduate-level employment.

Critical thinking, complex and creative problem-solving, active learning, and interpersonal skills are developed through classroom, laboratory, and field experiences, with academics who are passionate about sharing their experience and love of science.

Chemistry

Chemists in the school undertake research on:

- the structure and reactivity of molecules
- the development of novel materials for a wide range of applications
- medicinal chemistry
- applications of chemistry to environment problems
- the development of renewable energy resources and storage devices.

Earth Sciences

Geologists and geophysicists in the school investigate our planet—from its surface, through to its crust and deep mantle—using rocks that outcrop on the surface, boreholes and geophysical remote sensing.

Our research focusses on continental evolution, bio-geoscience, near-surface geophysics, earthquake science, regolith geoscience and mineral exploration.

Physics

Physicists in the school conduct research in:

- the structure of sub-atomic matter
- the development of novel optical and photonic systems for a wide range of applications
- medical physics and geophysics
- the investigation of the atmosphere using a network of sites that stretch from the equator to the Antarctic
- the investigation of the structure of the universe and extreme astrophysics.

Bachelor of Science (Energy Geoscience)

SATAC CODE	ATAR	IB SCORE
324921	75	26
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: any two Science subjects chosen from Biology, Chemistry, Geology, Mathematical Methods, Mathematical Studies, 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).

adelaide.edu.au/degree-finder
Search ***geoscience + geology***

Global energy demands are increasing annually, highlighting the critical importance of energy resources for future sustainability. The Bachelor of Science (Energy Geoscience) is for students interested in the areas of science that relate to Earth's energy resources, including conventional and unconventional hydrocarbons, water, geothermal and uranium exploration for nuclear power. This program provides graduates with specific knowledge and skill sets to investigate the nature, origin, distribution, discovery and exploitation of these energy resources that are increasingly required for successful careers in this industry. A feature of the program includes extensive fieldwork and practical investigations.

Career opportunities

This degree program will provide graduates with inter-disciplinary approaches and a new focus on addressing the global challenge of efficient energy exploration and production.

Graduates will be prepared for careers in the rapidly growing energy sector, including conventional and unconventional hydrocarbons, water, geothermal and nuclear industries.

Bachelor of Science (High Performance Computational Physics) (Honours)

SATAC CODE	ATAR	IB SCORE
324171	87.3	31
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	90	4 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: Mathematical Studies, Specialist Mathematics and Physics.

IB: Mathematics (HL grade 3) and Physics (SL grade 4/HL grade 3).

adelaide.edu.au/degree-finder
Search ***high + physics***

This program introduces students to the sophisticated high-performance computing techniques required for the solution of high-level problems in theoretical, computational and mathematical physics. Students will be able to develop skills to program parallel supercomputers using state-of-the-art computer languages, and gain the mathematical and computational skills necessary to solve challenging problems at the forefront of physics.

Career opportunities

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.

Bachelor of Science (Laser Physics and Technology)

SATAC CODE	ATAR	IB SCORE
324091	72.1	25
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: Mathematical Studies, Specialist Mathematics and Physics.

IB: Mathematics (HL grade 3) and Physics (SL grade 4/HL grade 3).

adelaide.edu.au/degree-finder
Search ***laser + physics***

The application of lasers is at the forefront of cutting edge science and technology, enabling dramatic changes in a range of fields, including engineering, environmental studies, chemistry, medicine and fundamental physics. Lasers provide measurements in locations that are difficult to access—in outer space, deep inside the human body or inside an industrial plant—and make these measurements with more precision than by any other technique. Lasers are also used to cut and weld materials, cool matter to within a billionth of a degree of absolute zero, and undertake the most delicate surgery.

This program is particularly well suited to students who wish to pursue a career at the boundary between science and advanced engineering. It will give students the problem-solving skills that are highly sought-after by employers, while also giving them the capability to bring ideas to fruition.

Career opportunities

A wide range of employment opportunities exist for graduates in:

> science communication

> defence organisations

> laser industry

> remote and advanced optical sensing of the environment

> research organisations (CSIRO, Bureau of Meteorology, Antarctic Division)

> universities.

Bachelor of Science (Mineral Geoscience)

SATAC CODE	ATAR	IB SCORE
324551	66.3	24
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: any two Science subjects chosen from Biology, Chemistry, Geology, Mathematical Methods, Mathematical Studies, 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).

ASSUMED KNOWLEDGE

- SACE Stage 2 Chemistry
- Mathematical Studies
- Physics

adelaide.edu.au/degree-finder
Search ***mining + geoscience, geology***

This program is for students interested in the areas of science that relate to Earth's mineral resources—their nature, origin, distribution, discovery and exploitation. This is the program for students who want an interesting, well-paid and diverse career, with opportunities to travel all over the world.

The Bachelor of Science (Mineral Geoscience) integrates and extends courses in geology and geophysics, mining engineering, geography and environmental studies, chemistry, mathematics and physics. A key feature of this program is the extensive fieldwork. The program is also specifically designed to meet the need for high-calibre graduates in the mineral resources sector.

Career opportunities

Employment opportunities exist for graduates in:

> environmental geoscience industries

> geology or geophysics

> geothermal exploration industries

> government agencies

> mineral exploration industries worldwide

> remote sensing and computer imaging.

Bachelor of Science (Space Science and Astrophysics)

SATAC CODE	ATAR	IB SCORE
324101	77.7	26
CAMPUS	**ADELAIDE APPROVED SCORE**	**DURATION**
North Terrace	75	3 years full-time (or part-time equivalent)

PREREQUISITES

SACE Stage 2: Physics, Mathematical Studies, Specialist Mathematics.

IB: Mathematics (HL grade 3) and Physics (SL grade 4/HL grade 3).

adelaide.edu.au/degree-finder
Search ***space + astrophysics***

Space science and astrophysics explores our universe from the upper atmosphere of the Earth to the most distant regions. This underpins much of the academic and technological research into astronomy, studies of the solar system and the practical use of space. It is important in improving our knowledge of the universe as a whole, and in enabling us to understand the environment within which space vehicles, and planet Earth, must operate.

Career opportunities

Employment opportunities exist for graduates in space and astrophysical research, as well as physics, including high-technology research and development through:

> defence agencies

> government (Bureau of Meteorology)

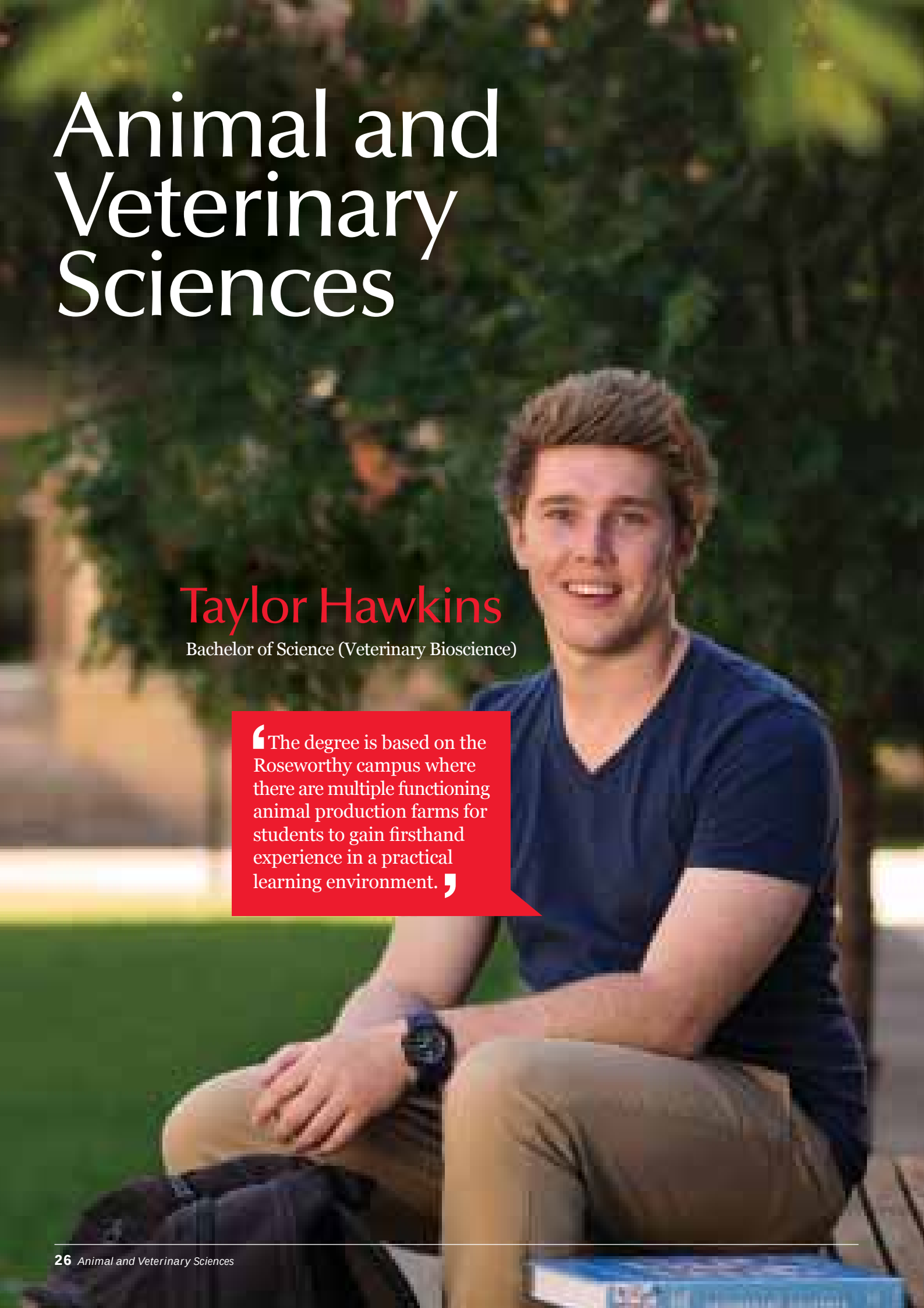
> national space agencies

> research institutes

> universities.


LAB

Animal and Veterinary Sciences



Taylor Hawkins

Bachelor of Science (Veterinary Bioscience)

> ‘The degree is based on the Roseworthy campus where there are multiple functioning animal production farms for students to gain firsthand experience in a practical learning environment.’

The School of Animal and Veterinary Sciences has a strong student focus, with cutting edge veterinary and animal sciences degrees aimed at educating students for careers across a wide range of animal-based disciplines.

75 Adelaide Approved* ATAR

Internationally recognised

$46k Median graduate starting salary

81% Graduate employment

Graduates work across different fields

** Not applicable for B.Science (Veterinary Bioscience).*

Roseworthy campus

Roseworthy campus, where the latter years of both the animal and veterinary science degrees are primarily taught, is 50 km north of the Adelaide CBD.

The campus is part of a 1600 ha property, which includes a working farm—on which students gain practical experience and training—as well as four Veterinary Health Centres, providing first-opinion and world-standard specialist services to the public, and further real-world experience for Doctor of Veterinary Medicine students.

These facilities, along with on-campus accommodation and recreation facilities, means Roseworthy is a vibrant and exciting centre for undergraduate teaching, postgraduate training and clinical service.

Applications for Veterinary Bioscience

In addition to the standard application process and meeting the degree admissions criteria, students wishing to apply for the veterinary science degree—which begins with the Bachelor of Veterinary Bioscience and is followed by a three-year postgraduate Doctor of Veterinary Medicine degree (Masters by Coursework (Extended))—must also submit written responses to a questionnaire.

The questionnaire offers applicants an opportunity to describe their knowledge and interest in animals, their passion for animals and animal industries, experiences of working with animals and their life experiences. Selection for the multi-mini-interview process will be based on the assessment of the prescribed questionnaire.

For further details about additional requirements and selection criteria for this degree, refer to '*Admission and Fee Information*' in Degree Finder: www.adelaide.edu.au/degree-finder

Bachelor of Science (Animal Science)

SATAC CODE	ATAR	IB SCORE
324141	68.75	24
CAMPUS North Terrace and Roseworthy	**ADELAIDE APPROVED SCORE** 75	**DURATION** 3 years full-time (or part-time equivalent)

ASSUMED KNOWLEDGE

- SACE Stage 2 Chemistry
- Mathematical Studies

adelaide.edu.au/degree-finder
Search ***animal***

This degree offers a broad range of animal science courses that cover wildlife, livestock, horses, companion animal and laboratory animal species. This degree focusses strongly on the practical skills used in the area of animal science.

Career opportunities

Employment opportunities exist for graduates in the following areas:

> animal science professionals in government agencies

> livestock and agricultural management

> livestock production and nutrition

> private companies

> vertebrate pest management

> wildlife conservation

> zoos and animal welfare organisations.

Bachelor of Science (Veterinary Bioscience)

SATAC CODE	ATAR	IB SCORE
324491	minimum academic threshold is 90	minimum academic threshold is 31
CAMPUSES North Terrace and Roseworthy		**DURATION** 3 years full-time

PREREQUISITES

SACE Stage 2: Mathematical Studies, Chemistry.

IB: Mathematics (SL grade 4/HL grade 3) and Chemistry (SL grade 4/HL grade 3).

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 program on Degree Finder: www.adelaide.edu.au/degree-finder

ASSUMED KNOWLEDGE

- SACE Stage 2 Physics

adelaide.edu.au/degree-finder
Search ***veterinary***

Veterinary science at the University of Adelaide has a unique focus on Australian livestock production, equine health, aquaculture and biosecurity, and involves input from a range of partner institutions, government agencies and industry.

This bachelor degree forms the first part of the veterinary science degree. It is followed by a three-year postgraduate Doctor of Veterinary Medicine degree (Masters by Coursework (Extended)), focussing on the clinical skills required for veterinary practice. Students satisfactorily completing the undergraduate degree and 12 weeks of Animal Husbandry Extra Mural Studies (AHEMS) will gain direct entry into the postgraduate degree.

Career opportunities

Employment opportunities exist for graduates from the bachelor program in government agencies, livestock and agricultural management, livestock production and nutrition, private companies, zoos and animal welfare organisations.

Employment opportunities exist for graduates in private and public veterinary practices as veterinarians following completion of the postgraduate coursework program.

Professional accreditation

At the University of Adelaide, the veterinary science degree is comprised of two degrees: the Bachelor of Science (Veterinary Bioscience) and the Doctor of Veterinary Medicine (Masters by Coursework (Extended)). To practice as veterinarians, students must complete both degrees (six years in total).

The veterinary science degree at the University of Adelaide has been granted accreditation by the Australasian Veterinary Boards Council (AVBC), the Veterinary Surgeons' Board of Hong Kong, and the Royal College of Veterinary Surgeons (UK).

Graduates from this degree are eligible for registration as veterinarians in all states and territories of Australia, New Zealand, South Africa, Singapore, the United Kingdom and Hong Kong. In order to meet these professional expectations, graduates must be able to demonstrate their ability to perform various animal handling, manipulative, therapeutic and diagnostic techniques.

Related degrees

Bachelor of Health and Medical Sciences

SATAC CODE	ATAR	IB SCORE
324951	65	24

CAMPUS	DURATION
North Terrace	3 years full-time (or part-time equivalent)

adelaide.edu.au/degree-finder
Search ***health***

The Bachelor of Health and Medical Sciences degree aims to produce graduates who have the desire, knowledge and skills to improve human health. The human body is endlessly fascinating and forming the basis of the degree is understanding how it functions in health, disease and how it is influenced by environmental factors is core to improving health and potentially saving lives.

Graduates will, depending on their choice of major, have the capabilities to enable them to work in a variety of health settings which may include; research environments, government, industry, business, community and academia. By undertaking a major, graduates will possess a broad body of knowledge, with in-depth understanding with respect to their major area of study. Graduates will be work-ready, as well as being ready for study at honours and postgraduate level.

The degree offers majors in one of two streams.

The **Medical Health** stream offers majors in:

> Clinical Trials

> Medical Sciences

> Neurosciences.

The **Lifespan Health** stream offers majors in:

> Addiction and Mental Health

> Nutritional Health

> Public Health

> Reproductive and Childhood Health.

Bachelor of Computer Science

SATAC CODE	ATAR	IB SCORE
314111	70.45	25

CAMPUS	DURATION
North Terrace	3 years full-time (or part-time equivalent)

PREREQUISITE
- SACE Stage 2 Mathematical Studies

adelaide.edu.au/degree-finder
Search ***computer***

The Bachelor of Computer Science caters for students with specific interests in computer science and/or information technology. It has a core of compulsory computer science courses and a wide range of elective courses, in areas including:

> mathematics and statistics

> commerce

> economics

> engineering

> finance

> humanities and social sciences

> science.

Bachelor of Mathematical Sciences

SATAC CODE	ATAR	IB SCORE
324421	81.1	28

CAMPUS	DURATION
North Terrace	3 years full-time (or part-time equivalent)

PREREQUISITES
- SACE Stage 2 Mathematical Studies
- Specialist Mathematics

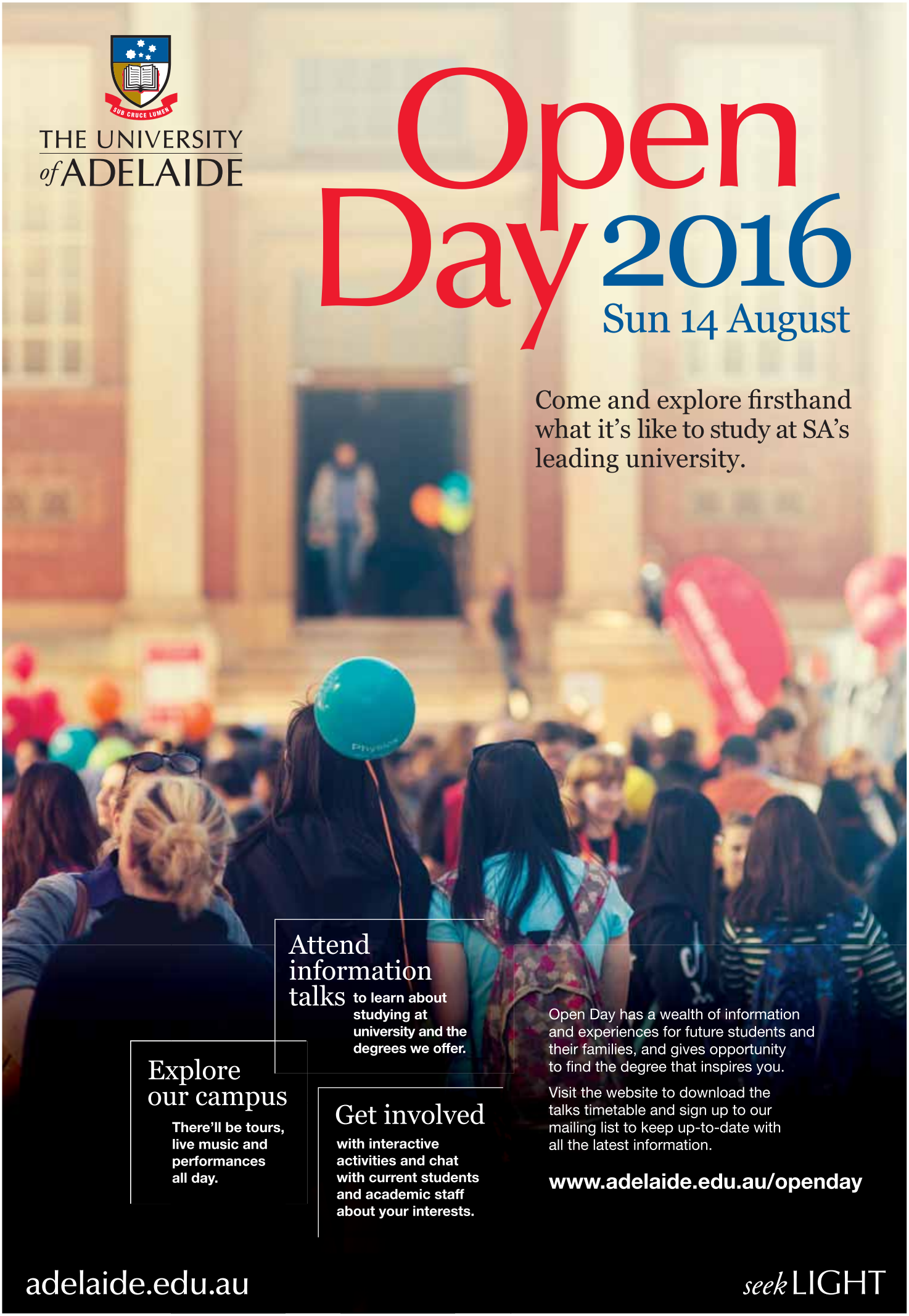
adelaide.edu.au/degree-finder
Search ***mathematics***

This program has been specifically designed for those seeking the high level of mathematical and statistical training required in today's technological workplaces. Mathematical sciences courses are in the areas of:

> applied mathematics

> pure mathematics

> statistics.


THE UNIVERSITY of ADELAIDE
SUB CRUCE LUMEN
Open Day 2016
Sun 14 August
Come and explore firsthand what it's like to study at SA's leading university.
Attend information talks to learn about studying at university and the degrees we offer.
Explore our campus There'll be tours, live music and performances all day.
Get involved with interactive activities and chat with current students and academic staff about your interests.
Open Day has a wealth of information and experiences for future students and their families, and gives opportunity to find the degree that inspires you.
Visit the website to download the talks timetable and sign up to our mailing list to keep up-to-date with all the latest information.
www.adelaide.edu.au/openday
adelaide.edu.au
seek LIGHT

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 degree, visit: **www.adelaide.edu.au/degree-finder**

Architecture, Business and Law

Bachelor of Architectural Design
Bachelor of Commerce (Accounting)
Bachelor of Commerce (Accounting and Corporate Finance)
Bachelor of Commerce (Corporate Finance)
Bachelor of Commerce (International Business)
Bachelor of Commerce (Management)
Bachelor of Commerce (Marketing)
Bachelor of Economics
Bachelor of Economics (Advanced)
Bachelor of Finance
Bachelor of Finance (International)
Bachelor of Innovation and Entrepreneurship
Bachelor of Laws
Bachelor of Laws and Graduate Diploma in Legal Practice

Arts

Bachelor of Arts
Bachelor of Arts (Advanced)
Bachelor of Criminology
Bachelor of Environmental Policy and Management
Bachelor of International Development
Bachelor of International Studies
Bachelor of Languages
Bachelor of Liberal Arts and Sciences
Bachelor of Media
Bachelor of Music
Bachelor of Social Sciences
Bachelor of Teaching with Bachelor of Arts
Bachelor of Teaching with Bachelor of Economics
Bachelor of Teaching with Bachelor of Mathematical and Computer Sciences
Bachelor of Teaching with Bachelor of Science
Diploma in Arts
Diploma in Languages

Engineering, Computer and Mathematical Sciences

Bachelor of Computer Science
Bachelor of Computer Science (Advanced)
Bachelor of Engineering (Honours) (Chemical)
Bachelor of Engineering (Honours) (Chemical and Pharmaceutical)
Bachelor of Engineering (Honours) (Civil and Architectural)
Bachelor of Engineering (Honours) (Civil and Environmental)
Bachelor of Engineering (Honours) (Civil and Structural)
Bachelor of Engineering (Honours) (Civil, Structural and Environmental)
Bachelor of Engineering (Honours) (Electrical and Electronic)
Bachelor of Engineering (Honours) (Mechanical)
Bachelor of Engineering (Honours) (Mechanical and Aerospace)
Bachelor of Engineering (Honours) (Mechanical and Sports)
Bachelor of Engineering (Honours) (Mechanical and Sustainable Energy)
Bachelor of Engineering (Honours) (Mechatronic)
Bachelor of Engineering (Honours) (Mining)
Bachelor of Engineering (Honours) (Petroleum)
Bachelor of Engineering (Honours) (Petroleum and Chemical)
Bachelor of Engineering (Honours) (Petroleum, Civil and Structural)
Bachelor of Engineering (Honours) (Petroleum and Mechanical)
Bachelor of Engineering (Honours) (Petroleum and Mining)
Bachelor of Engineering (Honours) (Software)
Bachelor of Engineering (Honours) – Flexible Entry
Bachelor of Mathematical Sciences
Bachelor of Mathematical Sciences (Advanced)
Bachelor of Mathematical and Computer Sciences

Health Science

Bachelor of Dental Surgery
Bachelor of Health and Medical Sciences
Bachelor of Health and Medical Sciences (Advanced)
Bachelor of Medicine and Bachelor of Surgery
Bachelor of Nursing
Bachelor of Oral Health
Bachelor of Psychological Science
Bachelor of Psychological Science (Honours)

Sciences

Bachelor of Agricultural Sciences
Bachelor of Applied Biology
Bachelor of Food and Nutrition Science
Bachelor of Science
Bachelor of Science (Advanced)
Bachelor of Science (Animal Science)
Bachelor of Science (Biomedical Science)
Bachelor of Science (Biotechnology)
Bachelor of Science (Energy Geoscience)
Bachelor of Science (High Performance Computational Physics) (Honours)
Bachelor of Science (Laser Physics and Technology)
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 Viticulture and Oenology

Applying to the University of Adelaide

How to apply

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

The application closing date for 2017 entry is 30 September 2016. Bachelor of Medicine and Bachelor of Surgery, and Bachelor of Dental Surgery applicants should refer to the UMAT website for information on the Undergraduate Medicine and Health Sciences Admission Test, including application and test dates: **umat.acer.edu.au**

International students should refer to: **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 learn more about them, visit **www.adelaide.edu.au/study** and select 'Entry Pathways' from the menu.

Fees and costs

In 2016, 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.	$6,256
Band 2: computing, built environment, allied health, other health, engineering, surveying, agriculture, science, mathematics, statistics.	$8,917
Band 3: law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce.	$10,440

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 2017.

HECS Higher Education Loan

This program, known as HECS-HELP, provides financial assistance for eligible students towards their student contribution. Further information is available at: **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**

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. For 2016 the SSAF was $290 for full-time students and $217 for part-time students. 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** 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 degree-related fees and charges, visit **www.adelaide.edu.au/student/finance** and select 'Other Fees and Charges'.

Bonus points

SATAC centrally administers two South Australian Universities Bonus Schemes: the SA Universities Equity Scheme, and the SA Language, Literacy and Mathematics Bonus Scheme. For details, please visit **www.adelaide.edu.au** and search 'bonus points'.

Degree intake

Many undergraduate degrees will allow students to begin study in either February or July 2017. Please refer to individual degrees on Degree Finder (**www.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.

Deferring your studies

Most 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** 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 the International Office for more information. Visit **www.international.adelaide.edu.au** and select 'About Us' from the menu, then 'International Office' and '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**

Disclaimer

The information in this publication is current as at the date of printing and is subject to change. Updated information can be found on the University website at **www.adelaide.edu.au** or by calling the University on (08) 8313 5208 (or free-call 1800 061 459).

More information

Our friendly and skilled Ask Adelaide staff can address all program enquiries over the phone or online. If they do not have the answer, enquirers will be referred to faculty, school or discipline-area staff for expert advice.

Ask Adelaide
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