Flinders UNIVERSITY

FLINDERS FOR SCIENCE

STUDY AT FLINDERS

In an era of disruptive change, Flinders University is growing its international reputation as a world leader in research, an innovator in contemporary education and a source of enterprising graduates equipped to change the world.

The University acknowledges the traditional owners of the lands Flinders University teaches across (Arrernte, Boandik, Bungarla, Dagoman, Gunditjmara, Jawoyn, Kaurna, Larrakia, Nauo, Ngarrindjeri, Peramangk, Ramindjeri, Wardaman, Warumungu, Wurundjeri, Yolgnu) and honour their Elders past and present.

TOP 2% UNIVERSITY WORLDWIDE*

NO.1 IN SA

for teaching quality, student support, and starting salary**

More than 500 undergraduate, postgraduate and research degrees

Over 25,000 students supported by over 2,600 staff***

New Venture Institute Top Challenger:
Asia-Pacific UBI Global World Ranking Report 19/20

Over 550 scholarships, worth $2.2m in total

* THE World University Rankings 2020 as a percentage of the total number of universities in the world according to the International Association of Universities
** The Good Universities Guide 2020 (undergraduate), public SA-founded universities only
*** Staff and student numbers are preliminary figures based on data collected 6 April 2020 and subject to change.

AT FLINDERS IT'S

ALL ABOUT YOU

CHOOSE YOUR DEGREE

From medicine to business, science or arts offerings, Flinders University offers more than 500 undergraduate, postgraduate and research degrees taught by global and national experts focused on the experience and outcomes of their students.

BE TAUGHT BY LEADERS

At Flinders, you'll be taught by teachers who are leaders in their fields. They are plugged into industry trends and connected to professional networks. Your future career will take practical shape from the very beginning of your studies as we guide you from the classroom to the workplace through inspired teaching, practical placements, internships, field education and industry projects.

BENEFIT FROM WORLD-CLASS RESEARCH

Flinders University's research strengths include biomedical and clinical sciences, culture, policy and society, health and medicine, mental health and human behaviour, molecular science and technology, defence, engineering, water and environment. With 90% of Flinders' research rated world-standard or above,* your studies will be supported by the up-to-the-minute knowledge of highly skilled researchers and lecturers.

*Flinders rating 89.7%, rounded up to 90%. Excellence in Research for Australia, 2018

GET THE SUPPORT YOU NEED

Flinders is SA's No.1 university for student support.** From campus facilities to financial support, mental health and wellbeing resources and services, student grants, counselling services (including careers and financial) and many social opportunities, we offer a range of services to ensure your study experience is everything you want it to be. Find out more about student support on page 49.

**The Good Universities Guide 2020 (undergraduate), public SA-founded universities only

EXPERIENCE A UNIVERSITY LIKE NO OTHER

Our geographic footprint stretches from the top of the Northern Territory through to South Australia and regional Victoria. Internationally, joint courses are delivered with leading universities in China, Hong Kong, Malaysia, Singapore and Indonesia. Our main campus at Bedford Park is an environment that fosters creativity. Sitting in stunning natural surrounds, it boasts spectacular views to the city and coast and features an award-winning, state-of-the-art student hub that fosters interactive learning in a digitally enabled environment.

JOIN A GLOBAL COMMUNITY

Flinders University graduates are enterprising, innovative and curious thought leaders in over 120 countries around the world. When you graduate from Flinders, you'll not only join over 106,000 graduates from an amazing variety of fields, you'll graduate from SA's No. 1 university for starting salary.**

**The Good Universities Guide 2020 (undergraduate), public SA-founded universities only

GAIN REAL-WORLD EXPERIENCE

Flinders Work Integrated Learning (WIL) enables you to gain work experience while you study. You'll have the opportunity to gain real-world experience through placements, practicums, field studies, and simulated workplace settings and assessment activities. Flinders aims to provide each and every student with access to a WIL opportunity during their studies.

THINK BIG. MAKE AN IMPACT. DESIGN YOUR FUTURE.

Careers are evolving and the workplace of the future will look very different from today. Powered by Flinders' New Venture Institute, our suite of innovation and enterprise electives and courses will help you to develop the 'personal enterprise skills' that employers are looking for, and equip you with the ability to adapt to whatever life throws at you, personally and professionally. No matter what you choose to study at Flinders, you can embed an innovation and enterprise elective into your degree.

TAKE YOUR STUDIES OVERSEAS

Why wait until you graduate to explore the world? Flinders' Learn Without Borders could see you studying overseas, gaining a unique perspective and immersing yourself in a different culture, language and lifestyle.

"My exchange was honestly one of the most amazing and rewarding six months of my life. The friends I made, the things I saw and experienced will stick with me for the rest of my life."

Rebekah Jones
Canada

EXPLORE FLINDERS SCHOLARSHIPS

Flinders offers a generous range of scholarships for students in undergraduate courses. With over 550 available scholarships, including scholarships to students from low socio-economic backgrounds, students from rural and regional areas and Indigenous students, you may be eligible for support that will help you achieve your goals at university.

"The Wyndham Richardson Scholarship Fund has been invaluable to reduce the financial pressure during studies, especially now that I am in the later years of my degree."

Ryan Rowston, Bachelor of Computer Science
Wyndham Richardson Scholarship Fund

FLINDERS VILLAGE

Centred around the new Flinders Train Station (due to open early 2021) and directly connecting the University's main campus to its Tonsley innovation precinct and the Adelaide city centre, the $1.5 billion Flinders Village development will create a campus environment which merges university life with the wider community.

Flinders Village will feature student accommodation, an advanced health research facility, transitional health accommodation, a hotel, and amenities such as retail facilities, benefitting students, staff and the community.

Community-centred student living

Flinders Station links Bedford Park to Tonsley and the city

YOUR WORK COULD BE THE KEY TO UNDERSTANDING THE FUTURE OF THE WORLD

SCIENCE

EXPLORE THE UNKNOWN

STUDY SCIENCE AT FLINDERS

From advances in biotech, to the discovery of a long-forgotten prehistoric creature or the thrill we feel when a new probe lands on Mars, science excites us all. Turn your passion for discovery into a career.

UNCOVER SECRETS. DISCOVER ANSWERS.

The world of science is a lot more exciting than it looks on The Big Bang Theory. A career in science can quite literally change the world. You could play a part in making new discoveries, helping us understand some of the deepest questions about who and what we are, and how our universe works.

A REWARDING CAREER.

There's nothing more gratifying than doing something you love in an exciting field. Science underpins almost every facet of our society, and the range of careers in science is broad. From government departments to environmental organisations and private industry, you can pursue your passion and build a rewarding future.

STUDY FOR SUCCESS.

Studying science at Flinders means studying at a university with strong links to industry, and a wide range of research expertise in areas such as biotechnology, groundwater hydrology, and forensic and environmental science.

No. 1 in SA

in Science & Mathematics for starting salary, learner engagement, learning resources, overall quality of educational experience, skills development, student support and teaching quality

The Good Universities Guide 2020 (undergraduate), public SA-founded universities only

Bachelor of Mathematical Sciences

Master mathematics to solve real-world problems.

Mathematics is the foundation of many industries. Demand for mathematics graduates is particularly strong in areas including science, engineering, technology and business, and in areas as diverse as linguistics and health. Your skills and knowledge of mathematics could lead to a challenging, long-term career.

In this degree, you'll gain a foundation in the principles and techniques of modern mathematics, and learn how to apply these skills to solve today's problems. The degree is designed to produce industry-focused graduates who are in demand in a range of careers that use mathematics.

Bachelor of Mathematical Sciences

3 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	224631
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Mathematical Sciences (Honours)

4 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	224641
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

* SACE stage two specialist mathematics or mathematical methods or equivalent.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Your studies will focus on both pure and applied mathematics and statistics.
- You can choose topics in other disciplines that use applied mathematics, such as medicine, business, physics and the environment.
- You'll develop advanced research, communication and technical skills.
- Focus on advanced pure and applied mathematics in our Mathematical Sciences Laboratory.
- The degree is designed to exceed the Australian Mathematical Society's accreditation standards.
- Join the university that produced Australia's Fields Medal winner, Professor Terence Tao.

CAREER OPPORTUNITIES

Your degree is the first step towards a range of employment opportunities, including:

- credit bureau analyst
- data and analytics officer
- consultant – data analytics
- quantitative assistant trader
- consumer research executive.

Potential employers include:

- Mercer
- Bureau of Meteorology
- Australian Bureau of Statistics
- The Nielsen Company (Australia)
- Australian Securities and Investments Commission.

Bachelor of Science

Imagine a career exploring science from its core to the outer limits.

You don't need a science background to start a career in science, you just need an inquiring mind.

This degree will equip you with crucial transferable skills in problem solving, communication, teamwork and computing, that will open up career pathways and research opportunities in a broad and exciting range of professional areas

Bachelor of Science

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234511
2020 MINIMUM SELECTION RANK	60.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Follow your interests in core sciences from a diverse range of disciplines.
- You have the flexibility to explore a specific area while getting a broad foundation in science by studying a major, or gaining more specific expertise and a named degree by studying a specialisation.
- The degree provides you with practical experience that prepares you for the workplace through project-based learning.

CAREER OPPORTUNITIES

Your degree is the first step towards a range of employment opportunities, including:

- laboratory technician
- intellectual property analyst
- bioinformatics technician
- research assistant
- graduate ecologist.

Potential employers include:

- GHD
- Bureau Veritas Australia
- CSIRO
- SA Water
- Department of Agriculture.

Bachelor of Science (Honours) – Enhanced Program for High Achievers

Make the most of your academic abilities.

Discover where science can take you and where you can take science. If you're a student of exceptional academic ability, this enhanced program provides opportunities to embark upon research in every year of the degree.

Bachelor of Science (Honours) – Enhanced Program for High Achievers

4 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	214721
2020 MINIMUM SELECTION RANK	95.00
GUARANTEED ENTRY SELECTION RANK	95.00
TAFELINK	Advanced Diploma
ADJUSTMENT FACTORS	Yes

* At least three of the following SACE stage two subjects or equivalent: biology, mathematical methods, specialist mathematics, chemistry, physics, geology.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Join a cohort of highly intelligent students with similar interests and capabilities.
- Be mentored by research staff and postgraduate students in your first year.
- Undertake professional placements integral to your research training.
- Web-based course materials and video lectures are offered in some subject areas, and help to make the program even more accessible.

CAREER OPPORTUNITIES

Your degree is the first step towards a range of employment opportunities, including:

- biologist/marine biologist
- chemist/biochemist hydrologist
- physicist
- statistician/biostatistician
- mathematician
- nanotechnologist.

Potential employers include:

- university and research organisations
- CSIRO
- Defence Organisations, DST
- Australian Centre for Plant Functional Genomics
- The Walter and Eliza Hall Institute of Medical Research
- Australian Nuclear Science and Technology Organisation
- Department of Environment and Water.

Make the systematic pursuit of knowledge your passion with a Bachelor of Science

Flinders gives you the flexibility to choose from major areas of study across the University's wide range of science disciplines.

MAJORS

The broad range of majors available enables you to construct a study program that suits your interests. The following major areas of study are available at Flinders:

Animal biology
The animal biology major involves the study of living terrestrial, avian and aquatic animals.

Aquatic biology
Aquatic biology involves the biology of marine and freshwater aquatic life.

Biochemistry and molecular biology
The biochemistry and molecular biology major explores the building blocks of life.

Chemistry
Chemistry affects almost everything we do or use: from drugs, antibiotics and anaesthetics to polymers and plastics through to synthetic fibres and batteries.

Cognitive science
Cognitive science is the scientific study of the mind and its processes in both humans and machines.

Computer science
The computer science major provides you with a broad background in programming, databases, networks and computer systems.

Ecology and evolutionary biology
The ecology and evolutionary biology major introduces you to the study of living animals, plants and fungi.

Environmental geology
The environmental geology major examines how geological processes and hazards influence human activities and vice versa.

Environmental hydrology and water resources
The environmental hydrology and water resources major gives you a broad background in natural sciences including earth sciences, environmental sciences and marine sciences.

Environmental management
The environmental management major aims to give you an understanding of the complexity and contexts of environmental decision-making.

Geography
The geography major provides a broad foundation in geography.

Mathematics
The mathematics major provides a firm foundation in the basic principles and techniques of modern mathematics.

Microbiology
The microbiology major involves the study of evolution, biodiversity, chemistry, biostatistics and immunology.

Ocean and climate sciences
The ocean and climate sciences major provides you with a deeper understanding of the physical processes shaping the marine environment and influencing climate.

Physics
The physics major provides an understanding of the fundamental laws of nature.

Plant biology
The plant biology major involves study in areas including Australian environmental change, diversity of plants and algae, animal and plant physiology and food biotechnology.

Statistics
The statistics major involves the use of mathematics, data science, biostatistics, probability and stochastic processes to analyse and solve complex statistical problems.

Bachelor of Science (Biotechnology)

Begin a career in biotechnology, considered the growth technology of the 21st century – with job opportunities to match.

The degree is underpinned by knowledge in entrepreneurial and corporate biotechnology.

Bachelor of Science (Biotechnology)

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234521
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Biotechnology)

4 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234541
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Graduate prepared to work as a professional in one of the most exciting areas of modern science by combining theory and specialised practical training in the life sciences with the study of related business, legal, ethical and social issues.
- You don't need a background in science, just an inquiring mind.
- Practical lab sessions prepare you for a scientific career.
- You'll have the opportunity to undertake project placements within the University, Flinders Medical Centre or the biotechnology industry.
- Participate in one-on-one mentoring sessions with industry and medical research leaders.
- Understand science in the global market through commercialisation, entrepreneurship, financial management and business.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- biotechnologist
- bioanalytical quality assurance associate
- biodiscovery research officer
- graduate research assistant
- medical information associate.

Potential employers include:

- Australian Centre for Plant Functional Genomics
- Bionomics
- Department of Industry, Innovation and Science
- Murdoch Children's Research Institute
- Novozymes.

Bachelor of Science (Chemical Sciences)

Build a career in the science central to all other sciences.

Gain a broad-based foundation in chemistry, acquire extensive knowledge in the area and graduate job-ready.

Bachelor of Science (Chemical Sciences)

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234231
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Chemical Sciences)

4 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234381
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Chemical Sciences)/Master of Engineering (Materials)

5 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	Yes**
SATAC CODE	234871
2020 MINIMUM SELECTION RANK	95.00
GUARANTEED ENTRY SELECTION RANK	95.00
TAFELINK	NA
ADJUSTMENT FACTORS	Yes

* SACE stage two chemistry plus specialist mathematics, mathematical methods or equivalent.

** Knowledge of SACE stage two physics or equivalent is assumed.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- You'll learn how to understand and apply chemical principles to solve problems, master lab techniques and equipment, undertake chemistry research and communicate your findings.
- You don't need a background in science, just an inquiring mind.
- This degree provides you with practical experience that prepares you for the workplace through a professional placement in your final year.
- Master the various laboratory techniques and instrumentation used in diverse chemical fields.
- There are opportunities to take your studies overseas through internships and short-term study abroad programs.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- analytical chemist
- assistant formulation chemist
- graduate chemist
- graduate quality control chemist
- laboratory metallurgical technician.

Potential employers include:

- DuluxGroup
- Advent Pharmaceuticals Pty Ltd
- Phytovision Pty Ltd
- Western Australia Specialty Alloys (WASA)
- SA Water.

Bachelor of Science (Energy and Advanced Materials)

Calculate the forces and resources for the modern technological world.

Prepare for a rewarding career and gain a solid foundation in physics and cutting-edge materials.

Bachelor of Science (Energy and Advanced Materials)

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	Yes*
SATAC CODE	234261
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Energy and Advanced Materials)

4 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	Yes*
SATAC CODE	234411
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

* Knowledge of SACE stage two mathematical methods and physics or equivalent is assumed.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- As new energy sources and new technologies emerge, new opportunities will open up in this exciting field. This degree prepares you to understand physics and materials at a deeper level, apply scientific principles in a materials context, appreciate experiment design and execution, and use scientific instruments commonly used in physics and materials.
- Use your maths ability as a language for physics and applications of materials.
- Operate scientific instruments commonly used in physics and materials.
- Retrieve and present information about physics in a scientific manner, including communicating effectively with a variety of audiences.
- The degree provides you with practical experience that prepares you for the workplace through the opportunity of a professional placement in your third year.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- fibre optics designer
- electronic device developer
- focused ion-beam scientist
- electronics technologist electronics engineer
- process validation group scientist.

Potential employers include:

- Defence Science and Technology Group
- ANSTO
- CSIRO
- Department of Industry, Innovation and Science
- BAE Systems.

Bachelor of Science (Forensic and Analytical Science)

Work towards a fascinating career using chemistry and biology to analyse evidence, help investigate crime and contribute to justice.

Undertake one of two streams. Forensic and analytical chemistry combines the practices of analytical chemistry and forensic investigation. Forensic biology uses aspects of life sciences to examine biological material in a forensic context.

Bachelor of Science (Forensic and Analytical Science)

3 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	234281
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Forensic and Analytical Science)

4 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	234431
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Forensic and Analytical Science) Pathway

1 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234171
2020 MINIMUM SELECTION RANK	60.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

* SACE stage two chemistry or equivalent.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Get hands-on experience during laboratory practicals and learn how forensic technologies are applied to real-life cases.
- Your degree opens career options in areas such as illicit drug testing, DNA analysis, trace evidence examination and toxicology.
- This degree has strong links with Forensic Science South Australia and other agencies and researchers around the world.
- You'll be able to access research facilities among Australia's best.
- Undertake research in the field.
- There are opportunities to take your studies overseas with a student exchange program.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- forensic chemist, forensic biologist or forensic toxicologist
- analytical chemist
- forensic technical assistant
- formulation chemist
- graduate chemist.

Potential employers include:

- Forensic Science SA
- Australian Federal Police
- Defence Science and Technology Group
- Victorian Institute of Forensic Medicine.

"Choosing Flinders gave me an opportunity to study forensics in a broad way by covering laboratory vs field options and biological vs chemical forensics for future pathways. I feel confident knowing that my teaching staff have my best interest at heart and I can meet with them if I have any questions to gain clarity in lecture and assessment content. This ensures my own goals are met and I get the best outcome for my end of semester results. The campus has beautifully set up study areas that were designed around human interaction that people can immediately feel comfortable in. Flinders fulfills all my expectations and checks all my boxes."

Gabrielle Ziersch,
Bachelor of Science
(Forensic and Analytical Science)

Bachelor of Science (Molecular Biosciences)

Understand and manipulate the building blocks of life.

Gain a broad foundation in molecular bioscience together with extensive subject knowledge in specialised topics such as molecular biology, biochemistry and microbiology. Practicals help you graduate job-ready and enable you to master a diverse set of laboratory skills that can be applied to many of today's most crucial scientific problems.

Bachelor of Science (Molecular Biosciences)

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234321
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Molecular Biosciences)

4 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234471
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

See the inside back cover for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- You don't need a background in science, just an inquiring mind.
- Gives you the flexibility to tailor your degree to suit your interests and aspirations.
- Has applications in medicine, agriculture, forensic science and the environment.
- Get hands-on experience in our laboratories.
- Develop molecular, biochemical and microbiological skills through experiments.
- Undertake professional placements and research projects as electives.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- molecular scientist
- molecular microbiologist
- clinical research associate
- cytometry technical specialist
- biostatistician.

Potential employers include:

- SAHMRI
- Australian Genome Research Facility Ltd
- Genomics for Life
- SA Health
- The Australian Wine Research Institute.

Bachelor of Science (Nanotechnology)

Start a career in the 'industrial revolution of the 21st century'.

Equip yourself to be part of the exciting world of nanotechnology. The degree provides you with a background in physics, chemistry and biology, complemented by insights into business, enterprise management, commerce, and legal issues such as intellectual property – all vital components for scientists working in business and industry.

There are many opportunities for graduates who wish to work in a commercial environment.

Bachelor of Science (Nanotechnology)

3 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	234331
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Nanotechnology)

4 PT D

PREREQUISITES	Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	234481
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

* Biomedical nanotechnology: SACE stage two chemistry or equivalent.

* Quantum nanostructures: SACE stage two chemistry, physics and mathematical methods or equivalent.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Join the first Australian university to offer an undergraduate degree in nanotechnology.
- Learn from highly awarded, leading researchers.
- Experience state-of-the art research facilities and instruments.
- Get hands-on laboratory experience.
- Develop skills working on real-world industry-funded projects and experiments.

CAREER OPPORTUNITIES

The critical thinking and hands-on experience will prepare you for employment in a broad range of material-science oriented roles, especially:

- nanofabrication technologist
- nanomaterial scientific officer
- nanosystems research assistant
- nanosystems scientist
- microengineering process development officer.

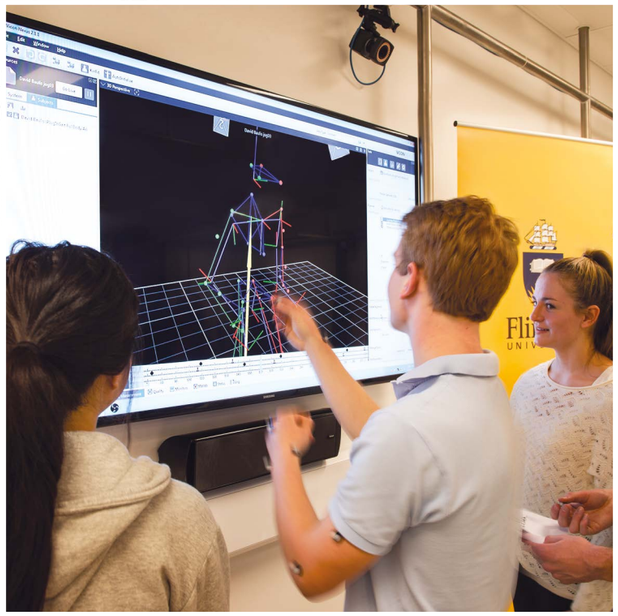
Potential employers include:

- BioSystems
- CSIRO
- defence industry
- medical technology
- renewable energy technology
- computer technology
- Defence Science and Technology Organisation
- Nanomics
- Nokia.

(#) NUMBER OF YEARS FULL-TIME (PT) PART-TIME AVAILABLE (D) DEFERRABLE

FIND OUT MORE FLINDERS.EDU.AU/SCIENCE

Flinders at Tonsley



Tonsley embodies world's best practice in education, teaching and research. It's a place where innovation, collaboration and entrepreneurial spirit combine to create the products and processes of the 21st century and beyond.

With more than 150 staff and 2,000 students – and a 2,000 square metre pod for heavy engineering equipment – Tonsley is a place where Flinders University students interact with business and where business interacts with Flinders researchers in areas such as engineering, medical devices and nanoscale technologies.

Flinders at Tonsley centrally locates computer science, engineering and mathematics at Flinders University, with the New Venture Institute, Medical Device Research Institute and Centre for Nanoscale Science and Technology, alongside some of Adelaide's biggest businesses and industries.

Tonsley is located centrally between Flinders University's Bedford Park campus and Adelaide city. It's connected to the city by train, offering convenient access 15 minutes from the city's CBD. And Tonsley is a five-minute car ride, a 15-minute ride on the Flinders loop bus, or a 30-minute walk from the Bedford Park campus.

Bachelor of Science (Palaeontology)

Turn your passion into a career with Australia's only palaeontology degree.

Gain the tools necessary for palaeontological careers anywhere in the world, such as working in a museum, evolutionary studies, fieldwork, ecological/environmental research, teaching or science communication.

Bachelor of Science (Palaeontology)

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	224061
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Palaeontology)

4 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	224051
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

- Study the first and only named palaeontology degree in Australasia.
- Learn in our purpose-built palaeontology laboratories.
- Combine specialist palaeontology study with biodiversity and conservation, animal behaviour, visual arts, earth and environmental science, and biostatistics.
- Learn about the key stages in the history of vertebrates, including the transition to living on land and how environmental changes have shaped the evolution of the modern Australian fauna.
- Examine the anatomy and behavioural characteristics of vertebrates through time to gain a better understanding of how they moved, what they ate and how they reproduced.
- Understand how the fossil record helps us resolve important patterns in human evolution and why we are the only species of human left on the planet.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- museum curator or collection manager
- university or museum researcher
- interpretation/education officer
- technical officer
- fossil preparator
- scientific consultant
- palaeo artist.

Potential employers include:

- universities (researcher/teacher)
- museums (curator/collections manager)
- science media agencies.

Bachelor of Science (Physics)

Master the enabling science that will help prepare you for a technical career.

Gain a solid foundation in physics and mathematics, and acquire extensive knowledge in the area. You will learn to understand physics at a deeper level, apply scientific principles in a physics context and understand the role of physics in society.

Bachelor of Science (Physics)

3 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	Yes*
SATAC CODE	234341
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	70.00
TAFELINK	Cert IV or above
ADJUSTMENT FACTORS	Yes

Bachelor of Science (Honours) (Physics)

4 PT D

PREREQUISITES	None
ASSUMED KNOWLEDGE	Yes*
SATAC CODE	234491
2020 MINIMUM SELECTION RANK	80.00
GUARANTEED ENTRY SELECTION RANK	80.00
TAFELINK	Diploma or above
ADJUSTMENT FACTORS	Yes

* Knowledge of SACE stage two physics and mathematical methods or equivalent is assumed.

See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and how to apply.

- Use your mathematical ability as a language for physics.
- Develop an intuitive knowledge of physics principles.
- Operate the scientific instruments commonly used in physics.
- Retrieve and present information about physics in a scientific manner, including communicating effectively with a variety of audiences.
- Gain practical experience that prepares you for the workforce.
- The degree is designed to be accredited by the Australian Institute of Physics.

CAREER OPPORTUNITIES

Your degree could lead to a range of employment opportunities, including:

- graduate physicist
- defence scientist
- research scientist in sonar systems
- scientific officer, teacher
- NASA intern
- junior quantitative researcher – systematic trading strategies.

Potential employers include:

- Defence Science and Technology Group
- ANSTO
- CSIRO
- Cochlear
- Tibra Capital
- Department of Industry, Innovation and Science
- university and research organisations.

(#) NUMBER OF YEARS FULL-TIME (PT) PART-TIME AVAILABLE (D) DEFERRABLE

FIND OUT MORE FLINDERS.EDU.AU/SCIENCE

You may also be interested in...

Bachelor of Arts and Science

Gain a sound understanding of both the arts and the sciences. This degree provides the broadest range of disciplinary and interdisciplinary studies from across the University, with majors available from creative arts, humanities, law, science, mathematics, computing, and social and behavioural sciences.

YEARS FULL-TIME	3
PREREQUISITES	None
ASSUMED KNOWLEDGE	None
SATAC CODE	234011
2020 MINIMUM SELECTION RANK	70.00
GUARANTEED ENTRY SELECTION RANK	75.00

Bachelor of Science/Master of Teaching (Secondary)

If you are a high-achieving student who is sure of your choice of a teaching career, the Bachelor of Science/Master of Teaching (Secondary) will equip you with all the necessary skills to become a registered secondary school teacher, and the foundation skills required to effectively teach subjects which draw on mathematics, science or technology.

YEARS FULL-TIME	5
PREREQUISITES	Written statement
ASSUMED KNOWLEDGE	None
SATAC CODE	234781
2020 MINIMUM SELECTION RANK	90.00
GUARANTEED ENTRY SELECTION RANK	95.00

Combined degrees

Combining your degree with a qualification in another discipline will help you develop specialised abilities to stand out from the pack. Studying a combined degree at Flinders is the key to enhancing your career opportunities.

Example degree combinations

Bachelor of Engineering (Civil) (Honours)/Bachelor of Science

SATAC CODE 224792

Apply scientific skills to enhance your studies of civil engineering problems and learn how to create innovative solutions that consider social, economic and environmental concerns.

Bachelor of Science (Biodiversity and Conservation)/Bachelor of Applied Geographical Information Systems

SATAC CODE 234222

Gain skills to support change and growth in areas like global warming, urban planning, mining and exploration, archaeology, transportation and biodiversity management.

Bachelor of Science (Marine Biology)/Bachelor of Archaeology

SATAC CODE 234302

Explore the influence of past, present and future societies on our marine environment.

For a full list of combined degree options visit **flinders.edu.au/combineddegrees**

STUDENT SUPPORT

Whatever you decide to study at Flinders, we're always here to help you succeed.

Careers & Employability Service

The Careers and Employability Service helps give you the edge in your career. CareerHub, our online employment portal, offers personalised job opportunities, career planning, programs to help you broaden your skills and experience, access to employer events and career-related resources. Whatever you are studying, CareerHub can help you find your direction and start your career.

flinders.edu.au/careers

Flinders Connect

Flinders Connect can help with everything from enrolment and fees to exams and graduation. You can also access Flinders Connect for specialist services in admissions, careers and IT help. A range of support services is also available.

flinders.edu.au/flindersconnect

Flinders Library

Our extensive library is more than a book repository. We provide a range of services such as computing and printing, document delivery and one-on-one librarian appointments for assistance with search strategies and finding resources for your assignments.

libraryflin.flinders.edu.au

Flinders Living

Flinders is the only university in Adelaide that gives you the opportunity to live on campus, and both University Hall and Deirdre Jordan Village are located within the Bedford Park campus. The wide range of social, sporting and community activities also enhances the student experience at Flinders Living.

flinders.edu.au/living

Flinders University Student Association

The Flinders University Student Association (FUSA) continues a long tradition of active student involvement and represents the rights and interests of students. FUSA manages social events, non-sporting clubs and societies, the student publication Empire Times, and helps with academic, administrative and welfare issues.

fusa.edu.au

Health, counselling and disability services

Managing your health is important. We have facilities and services available to help you look after your physical and mental health.

flinders.edu.au/hcd

Transition to university

Starting at university is a big step; let's make it easier. The Student Learning Centre provides a range of services from writing and mathematics support to assistance with study and time-management skills.

students.flinders.edu.au/study-support/slc

Yunggorendi Student Engagement

Yunggorendi Student Engagement provides high quality support services for Aboriginal and Torres Strait Islander students at Flinders University. Our team of highly qualified Indigenous and non-Indigenous staff connect to Indigenous and non-Indigenous communities on local, national and international levels.

flinders.edu.au/yunggorendi

PATHWAYS TO STUDY

Whether you are a school leaver or returning to study at a later date, there are many ways to gain admission to Flinders University. Explore your options and find the entry path that's right for you.

If you have recent secondary education

Year 12 Entry

Most Year 12 applicants enter university via the traditional entry method, where offers are made to eligible applicants with the highest selection rank until all places in the degree are filled. Your selection rank is used by Flinders to assess your admission to a course and is based on your ATAR plus any adjustment factors for which you are eligible.

Elite Athlete Pathway

If you've officially represented your school or state at a national level competition, we'll consider your school's recommendation about your academic potential when you apply.

Research Project B Pathway

If you have strong results in the Research Project B subject you will be considered for entry into Flinders on the basis of your Year 12 results and Research Project B performance.

uniTEST

If you're in Year 12, uniTEST may enhance your chances of getting into Flinders. We will select students based on Year 12 results and uniTEST performance.

If you have some higher education

Tertiary Transfer

If you have completed at least one semester of full-time equivalent study at university, you may be able to transfer to study at Flinders University using your grade point average (GPA).

If you have vocational education and training (VET)

TAFElink

Flinders offers guaranteed entry to selected degrees for applicants who have completed a TAFE/VET certificate IV or higher-level qualification, as long as degree prerequisites are met.

TAFE SA Dual Offers

Flinders University together with TAFE SA offer over 45 dual offer pathways in various disciplines.

Adult Entry

The adult entry scheme enables people aged 18 years and over to apply to study at Flinders via the Special Tertiary Admissions Test (STAT). Applications are made via SATAC.

If you have work and life experience

Foundation Studies

The Foundation Studies program has been designed to introduce you to university study in a supportive learning environment. Open to people from all backgrounds, Foundation Studies provides a pathway to gain entry to most degrees at Flinders and offers guaranteed entry into some degrees.

Military Pathways

Use your military service in the Australian Defence Force as a pathway to a Flinders University degree.

Special Tertiary Admissions Test (STAT)

Adult entry to university via the Special Tertiary Admissions Test (STAT) assesses your ability to study at a tertiary level.

A pathway to all degrees

Bachelor of General Studies

Begin your journey to a successful career. Flinders' Bachelor of General Studies is a flexible degree designed to prepare you with communication skills, a firm grasp of ethics and the confidence to make connections across geographical, disciplinary, social and cultural boundaries.

flinders.edu.au/study/pathways

WHEN CAN I START?

Flinders offers two admissions cycles each year for undergraduate degrees.

Semester 1 – March start

Applications open in August for commencement the following year.

Semester 2* – July start

Mid-year applications open in August for commencement in July the following year.

*Not all degrees are offered for semester 2 entry. Check our midyear site for details: **flinders.edu.au/midyear**

HOW DO I APPLY?

Check the application dates

Applicants need to apply through the South Australian Tertiary Admissions Centre (SATAC): **satac.edu.au**

Read the course information

- check the admission criteria
- check the prerequisites
- check assumed knowledge and additional admission criteria
- consider combined degrees
- check English language requirements
- consider pathways to your degree

Visit us

- register for Flinders Open Days
- check other upcoming events at: **events.flinders.edu.au**

Contact us if you have any questions

- call: 1300 354 633 (local call cost)
- email: askflinders@flinders.edu.au

Apply

- apply through SATAC at: **www.satac.edu.au/apply-now**
- apply for scholarships at: **flinders.edu.au/scholarships**
- lodge separate Indigenous application (if applicable) at: **flinders.edu.au/study/pathways/indigenous-admission-scheme**

Accept your offer

Enrol in your subject/topics at:
students.flinders.edu.au/my-course/enrolment

KEY DATES

Flinders Open Days:
Monday 10 - Saturday 15 August 2020

Semester 1 2021 start date:
1 March 2021

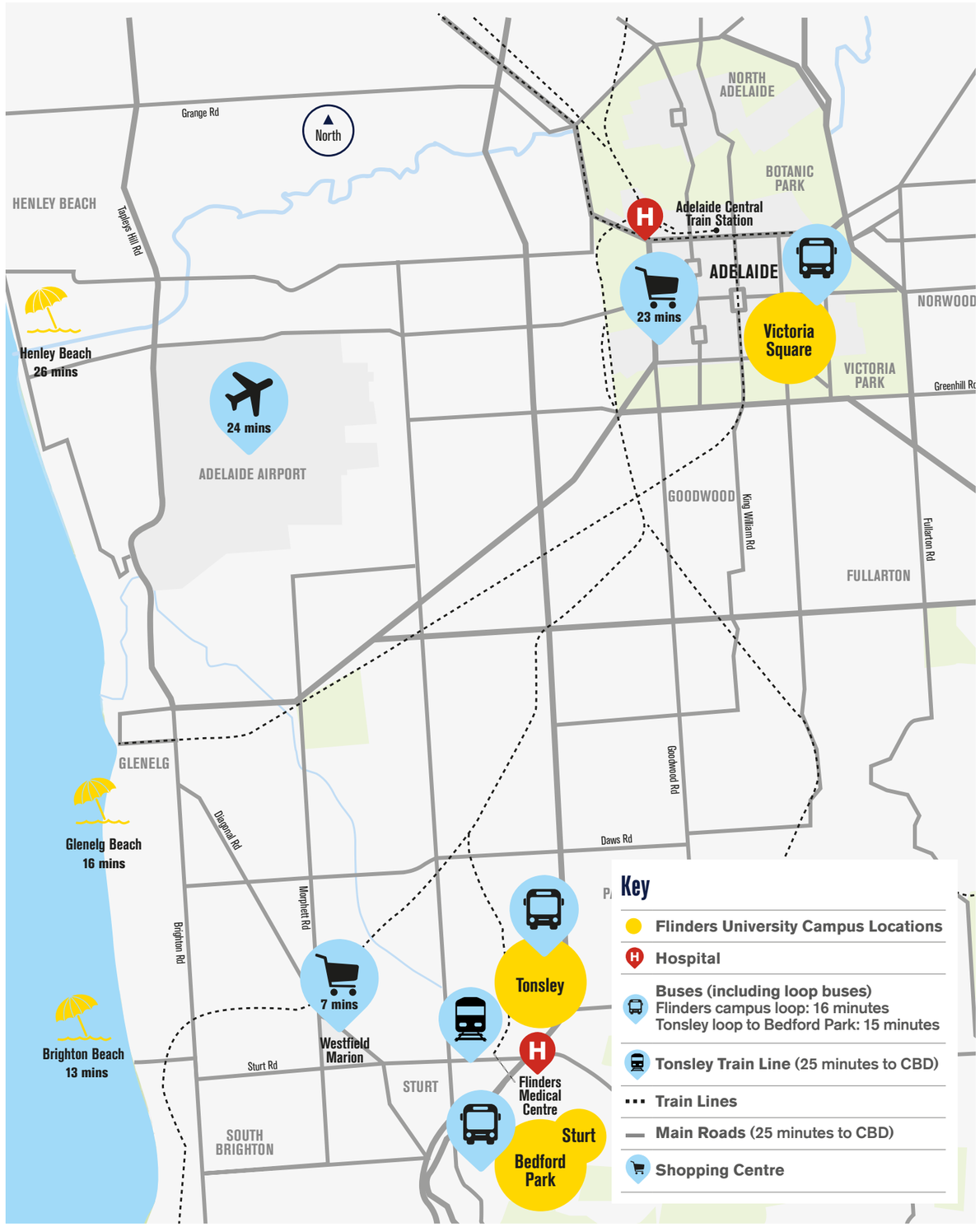
Semester 1 Orientation week:
22 February 2021

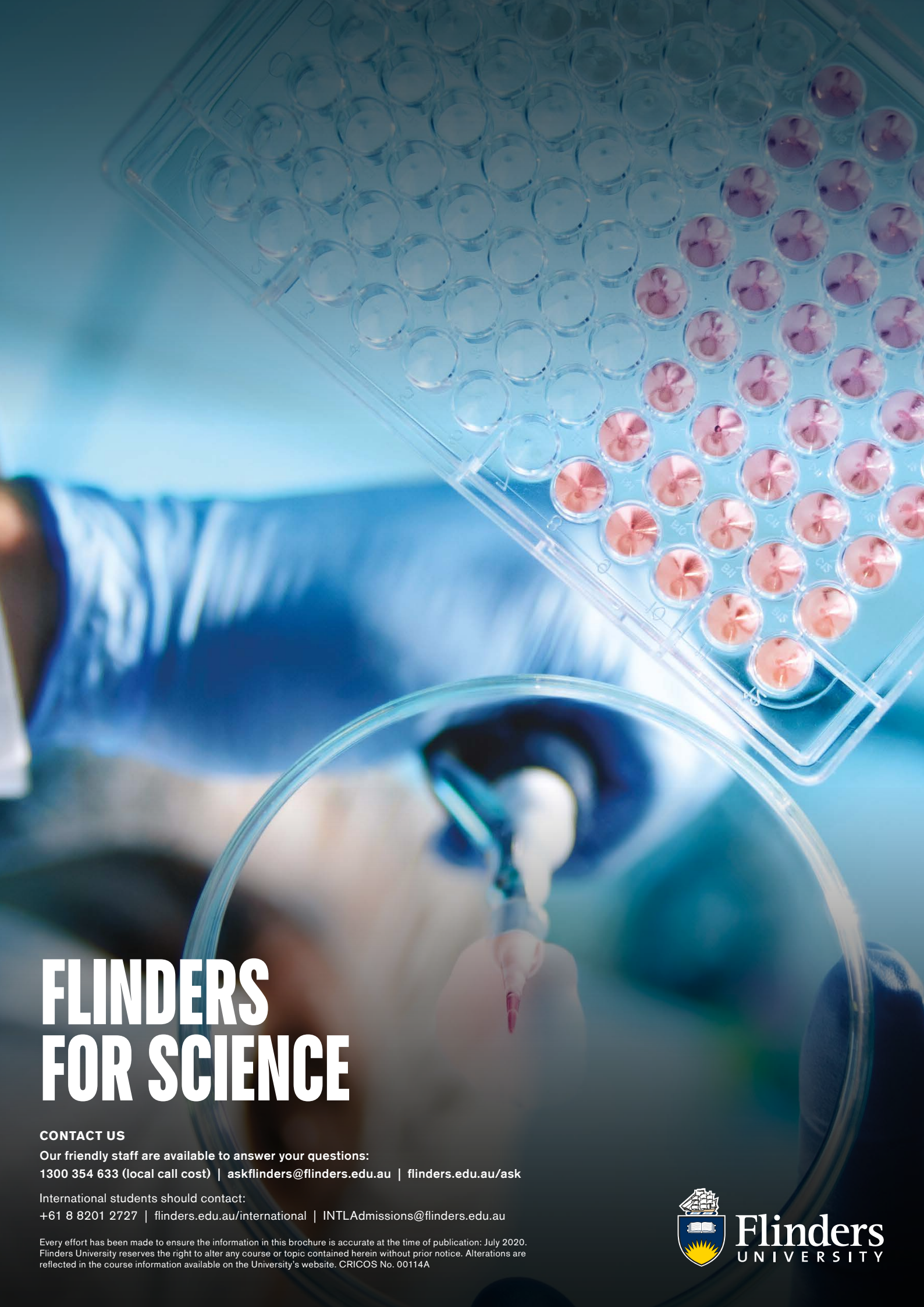
Semester 2 2021 start date:
26 July 2021

Semester 2 Orientation week:
19 July 2021

THIS IS FLINDERS

Flinders' huge main campus features an award-winning hub and plaza, with retail, food outlets and a state-of-the-art sport and fitness centre. Take a virtual tour of Flinders University and explore our amazing locations. It's the next best thing to being here! **flinders.edu.au/vr**





FLINDERS FOR SCIENCE

CONTACT US

Our friendly staff are available to answer your questions:
1300 354 633 (local call cost) | askflinders@flinders.edu.au | flinders.edu.au/ask

International students should contact:
+61 8 8201 2727 | flinders.edu.au/international | INTLAdmissions@flinders.edu.au

Flinders UNIVERSITY