



# 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, Jawoy 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  $^{\star\star}$ 

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

forld University Rankings 2020 as a percentage of the total number of universities in the world according to the Interrood Universities Guide 2020 (undergraduate), public SA-founded universities only

# AT FLINDERS IT'S

# ALL ABOUT 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

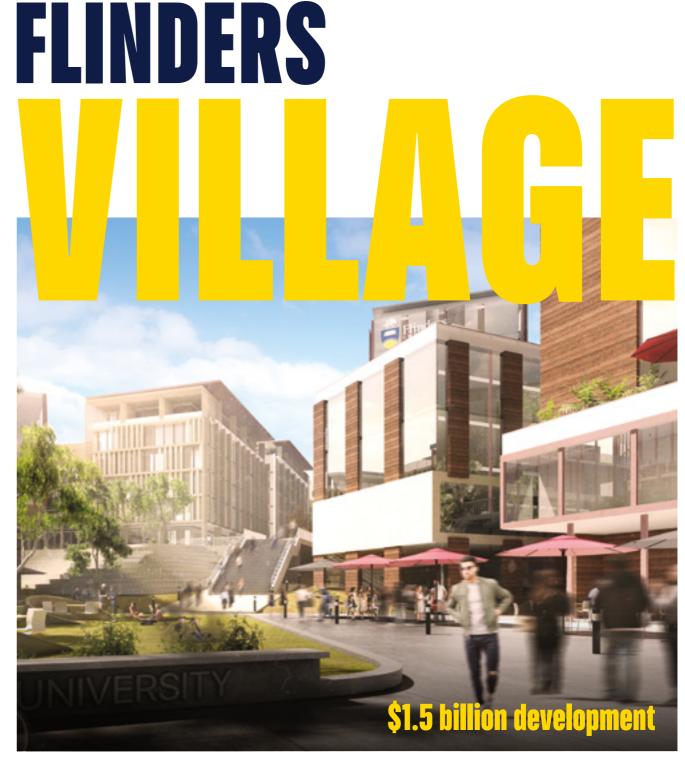
Canada

# **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



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.

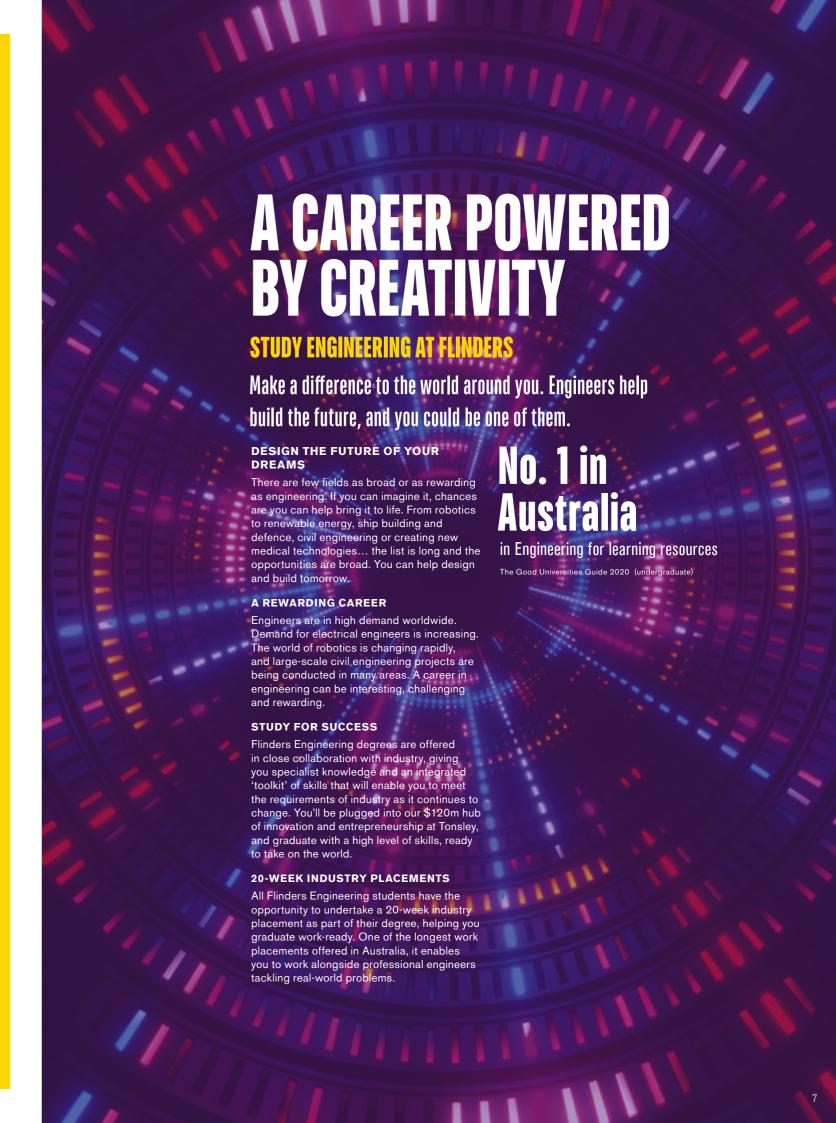
Flinders Village will feature student accommodation, an advanced health research facility, transitional health accommodation, a hotel, and amenities such as retail facilities, benefitting students, staff and the community.

# **Community-centred student living**

Flinders Station links
Bedford Park to Tonsley
and the city

THE WORLD NEEDS ENGINEERS

# ENGINEERING



# **Bachelor of Design and Technology** Innovation

Make your ideas a commercial reality.

Graduate prepared to solve problems and create commercial solutions. This degree prepares you to do this by developing a sound understanding of three areas: design; innovation management; and science, technology

You'll be taught desirable skills that will allow you to design and develop new products or services to solve a range of real-world problems.

Tonsley.

• You'll have the chance to

work-integrated placement.

Design Institute of Australia.

• There are opportunities to take

your studies overseas with a

placement in Europe, Asia or

**CAREER OPPORTUNITIES** 

towards a range of employment

business development manager

· commercialisation specialist

Potential employers include:

• Department of Industry, Innovation

Your degree is the first step

opportunities, including:

product designer

· graduate consultant

· innovation strategist.

CSR Limited

and Science

CSIRO

• Clipsal

Adidas.

North America.

12-week practical work experience

participate in a 12-week industry

• This degree is recognised by the

### **Bachelor of Design and Technology Innovation**



None	PREREQUISITES
None	ASSUMED KNOWLEDGE
224771	SATAC CODE
70.00	2020 MINIMUM SELECTION RANK
75.00	GUARANTEED ENTRY
	SELECTION RANK
Cert IV or above	TAFELINK
Yes	ADJUSTMENT FACTORS

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

# **Bachelor of Engineering (Biomedical)** (Honours)

Build a career designing systems that enhance the quality of human life.

Health care is a large and rapidly growing industry, and your skills could help improve the way we plan, design, manufacture and maintain healthcare systems and equipment. You will gain a solid education in both engineering and medical science, along with important practical skills and the ability to work as part of an effective team that will see you graduate work-ready.

# **Bachelor of Engineering**

224781 75.00 80.00 Diploma or above

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

- You'll study unique topics such as rehabilitation and assistive technology.
- Flinders biomedical and materials engineering research is world class, and graduates have won Monash Scholarships, Fulbright Scholarships, Churchill Fellowships and Menzies Scholarships.
- Choose a specialisation in mechanics-based or electronicsbased biomedical engineering.
- Our on-campus Medical Device Research Institute and Medical Device Partnering Program bring together some of the leading minds in biomedical engineering and related disciplines.
- · Through our extensive industry links, undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.

#### **CAREER OPPORTUNITIES**

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

- · biomedical engineer
- · clinical support specialist consultant
- · customer support engineer
- pathology field service engineer
- instrumentation engineer.

#### Potential employers include:

- Chemtronics Biomedical Engineering
- Epworth HealthCare
- · Bio-Rad Laboratories Pty Ltd
- Brainlah
- The Queen Elizabeth Hospital.

- (Biomedical) (Honours) • You'll learn to match a problem **4 P D** with technology to create a commercial solution. PREREQUISITES ASSUMED · You'll gain an understanding of KNOWLEDGE industrial design, technology and SATAC CODE innovation in one degree. 2020 MINIMUM SELECTION RANK • Enhance your employability with **GUARANTEED ENTRY** highly attractive, vital skills in the SELECTION RANK rapidly changing innovation sector. TAFELINK · Gain practical, hands-on exposure ADJUSTMENT to the cutting-edge equipment and \* SACE stage two specialist mathematics, facilities of Flinders University's new technology precinct at
  - mathematical methods or equivalent.
    - See the inside back spread for more information on your admission pathways, opportunities to enhance your degree, and









# **Bachelor of Engineering (Biomedical)** (Honours)/Master of Engineering (Biomedical)

Take your career to the next level with a five-year undergraduate pathway to a biomedical engineering masters.

Health care is a large and rapidly growing industry, and your skills could help improve the way we plan, design, manufacture and maintain healthcare systems and equipment. You will gain a solid education in both engineering and medical science, along with important practical skills and the ability to work as part of an effective team that will see you graduate work-ready.

You'll study unique topics such

as rehabilitation and assistive

· Flinders biomedical and materials

engineering research is world

Scholarships, Churchill

Fellowships and Menzies

Choose a specialisation in

class, and graduates have won

Monash Scholarships, Fulbright

mechanics-based or electronics-

based biomedical engineering.

Our on-campus Medical Device

Research Institute and Medical

together some of the leading

• Through our extensive industry

industry placement program of

structured work experience with

a local, national or international

• This degree is fully accredited

by Engineers Australia at the

**CAREER OPPORTUNITIES** 

the Washington Accord.

Your degree is the first step towards a range of employment

clinical support specialist

· customer support engineer

· instrumentation engineer.

Engineering

• Epworth HealthCare

· pathology field service engineer

Potential employers include: Chemtronics Biomedical

· Bio-Rad Laboratories Pty Ltd

• The Queen Elizabeth Hospital.

opportunities, including:

biomedical engineer

level of professional engineer and

recognised internationally under

links, undertake a 20-week

and related disciplines.

Device Partnering Program bring

minds in biomedical engineering

technology.

Scholarships.

### **Bachelor of Engineering** (Biomedical) (Honours)/Master of Engineering (Biomedical)





PREREQUISITES ASSUMED KNOWLEDGE SATAC CODE 224861 2020 MINIMUM 95.00 SELECTION RANK **GUARANTEED ENTRY** 95.00 SELECTION RANK ADJUSTMENT

- \* SACE stage two specialist mathematics,
- \*\* 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.

# **Bachelor of Engineering** (Civil) (Honours)

Use your creativity and innovation to build a career solving civil engineering problems.

Prepare yourself for a career solving civil engineering problems. You'll learn how to create innovative solutions that consider social, economic and environmental concerns. This degree covers the four main civil engineering themes of structures, transport, water and geomechanics, then applies them to infrastructure design and construction.

224791

80.00

#### **Bachelor of Engineering (Civil)** (Honours)

# **4 P D**



PREREQUISITES ASSUMED KNOWLEDGE SATAC CODE 2020 MINIMUM SELECTION RANK GUARANTEED ENTRY

SELECTION RANK TAFELINK Diploma or above ADJUSTMENT FACTORS

- \* SACE stage two specialist mathematics,
- \*\* 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

- · Learn to plan, design, build and maintain buildings, infrastructure and resources
- · Learn in purpose-built civil engineering labs and facilities in the new technology precinct at
- This degree has been designed in close collaboration with industry to meet future development needs in civil engineering.
- · A degree in civil engineering allows for pathways into design. consulting, construction and project management. These are all jobs in ongoing high-demand areas.
- · Contribute to growth and development for the urban and rural environment that surrounds us
- · Nationally recognised integrated work placement with a local, national or international organisation gives you practical industry experience.
- There are opportunities to take your studies overseas with a student exchange program.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.

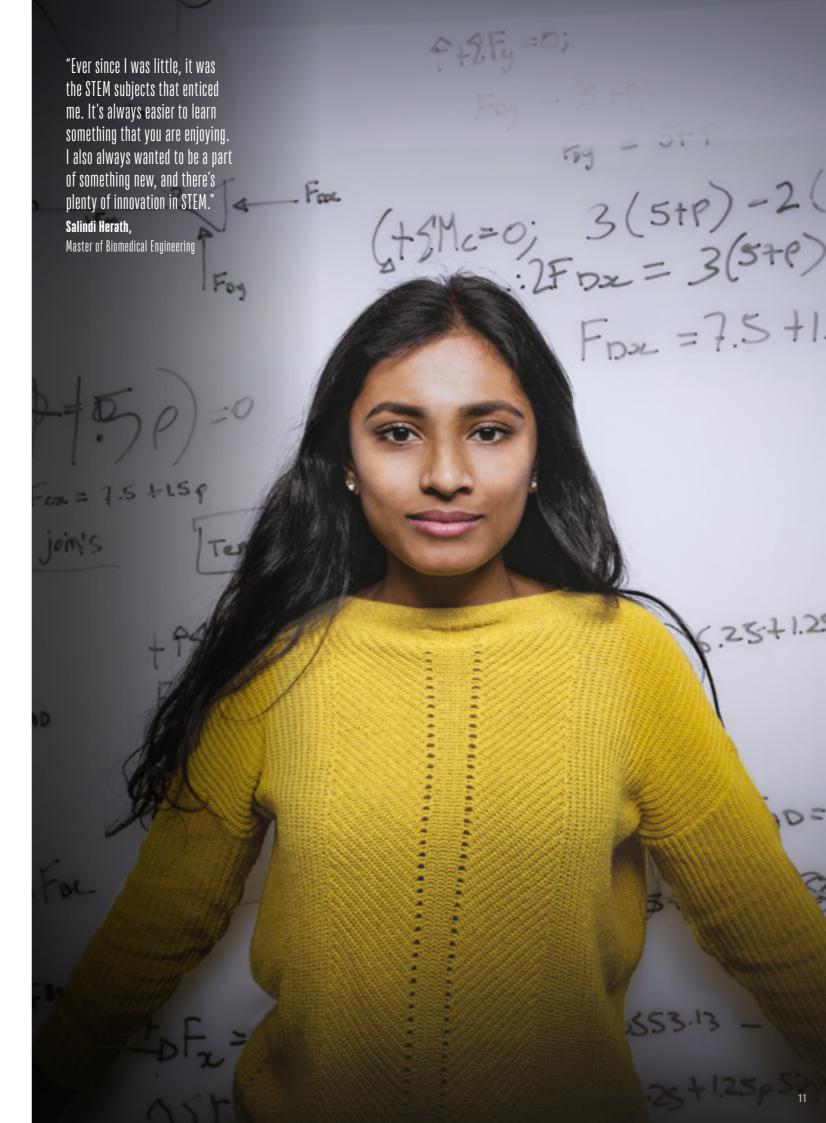
# **CAREER OPPORTUNITIES**

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

- stormwater design engineer
- site engineer
- structural design engineer
- geotechnical engineer
- transport systems engineer.

# Potential employers include:

- SA Department for Planning. Transport and Infrastructure
- Lendlease
- Australian Rail Track Corporation
- · City of Marion Council.











# **Bachelor of Engineering (Maritime)** (Honours)

Use your skills to make waves in the maritime engineering industry.

Prepare to become a professional engineer in the maritime engineering industry. You'll learn to design and manage the building of maritime vehicles, coastal engineering projects, port and harbour facilities, and offshore oil and gas installations. You'll develop practical skills in mechanics and structures, ship design, hydrostatics and fluid mechanics, thermodynamics and energy engineering.

· You can specialise in naval

art experimental facilities at

Flinders University and the

· Learn how to enable better

environment without putting

This degree is developed to

and related industries

serve the needs of the maritime

engineering design, construction

Career opportunities available in

· Complete a professional work

This degree is fully accredited

by Engineers Australia at the

• This course is also recognised

by the Royal Institution of Naval

Marine Engineering, Science and

Your degree is the first step towards

a range of employment opportunities,

Architects and the Institute of

**CAREER OPPORTUNITIES** 

· marine engineering officer

• pipeline engineer (subsea)

BAE Systems (Australia)

• Naval Group (Australia)

• Department of Defence

· Raytheon Australia.

Australian Defence Force

Potential employers include:

· combat systems officer

· marine valve engineer

· marine surveyor.

the Washington Accord.

level of professional engineer and

recognised internationally under

engineering company as part of

placement with a maritime

Australia, Europe, USA, UK and Asia

exploration of our ocean

Launceston.

humans at risk.

your studies.

Technology

including:

Australian Maritime College in

architecture, ocean engineering,

or marine and offshore systems.

#### **Bachelor of Engineering** (Maritime) (Honours)



PREREQUISITES ASSUMED Yes\* SATAC CODE 234591 2020 MINIMIIM 75.00 **GUARANTEED ENTRY** 80.00 SELECTION RANK TAFELINK Diploma or above **ADJUSTMENT** Yes

- \* SACE stage two specialist mathematics, mathematical methods or equivalent.
- \*\* Knowledge of SACE stage two physics or equivalent is assumed.
- A typical third year and honours year requires you to transfer to the Australian Maritime College in Launceston.

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

# **Bachelor of Engineering (Mechanical)** (Honours)

Push mechanical systems to the limit in a challenging and rewarding field.

Build a hands-on career with real-world applications. Learn to design construct and operate mechanical systems. This degree encourages you to push the boundaries, preparing you for the future of mechanical systems engineering. You'll learn to apply the principles of physics, materials science and mathematics, and build depth of knowledge in materials, mechanics, design, thermodynamics and fluid mechanics.

Yes\*

224831

75.00

80.00

Diploma or above

#### **Bachelor of Engineering** (Mechanical) (Honours)



· You'll have access to state-of-the PREREQUISITES ASSUMED KNOWLEDGE SATAC CODE

2020 MINIMUM SELECTION RANK GUARANTEED ENTRY SELECTION RANK

TAFELINK ADJUSTMENT FACTORS

\* SACE stage two 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

- You'll have access to purposebuilt state-of-the-art teaching and laboratory facilities and heavy engineering pods at Tonsley.
- You'll experience personalised teaching and great staff-student working relationships across your
- You can put your mechanical engineering skills to the test in a range of national competitions like the Solar Car Challenge and Weir Warman Design Competition
- Become involved in Formula SAE, UAV and Mini Maker Faire.
- Undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- There are opportunities to take your studies overseas with a student exchange program.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.

### **CAREER OPPORTUNITIES**

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

- graduate mechanical engineer
- graduate project engineer (mechanical)
- · process development engineer/ scientist
- · mechanical design engineer
- · graduate production engineer

### Potential employers include:

- BAE Systems
- Carl Zeiss
- Air Change Australia
- Woodside Energy
- · Airservices Australia

# **Bachelor of Engineering (Mechanical)** (Honours)/Master of Engineering (Biomedical)

From mechanical engineering to a biomedical engineering masters, engineer your way to a great career.

If you're a high-achieving student, take a pathway that allows you to complete a program of study in mechanical and biomedical engineering in only five years.

You could work towards a career in many areas in the mining, defence, manufacturing, shipbuilding, environmental, engineering consulting, building services, automotive and petrochemical industries, or in the design and production of diagnostic and therapeutic medical equipment in hospitals, devices to assist in home-based health care and rehabilitation, and sensory and control systems.

### Bachelor of Engineering (Mechanical) (Honours)/Master of **Engineering (Biomedical)**



PREREQUISITES ASSUMED KNOWLEDGE SATAC CODE 224871 2020 MINIMUN 95.00 SELECTION RANK **GUARANTEED ENTRY** SELECTION RANK TAFELINK ADJUSTMEN' Yes **FACTORS** 

- \* SACE stage two specialist mathematics, mathematical methods or equivalent
- \*\* Knowledge of SACE stage two physics

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

- · You'll have access to purposebuilt state-of-the-art teaching and laboratory facilities and heavy engineering pods at Tonsley.
- You'll study a variety of areas including dynamics, engineering design, biomechanics and biomedical instrumentation
- · Put your mechanical engineering skills to the test in a range of national competitions like the Solar Car Challenge and Weir Warman Design Competition.
- · Become involved in Formula SAE, UAV and Mini Maker Faire.
- Undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- · There are opportunities to take your studies overseas with a student exchange program.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.

# **CAREER OPPORTUNITIES**

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

- · biomedical engineer
- · clinical support specialist consultant
- · customer support engineer
- · pathology field service engineer
- · instrumentation engineer.

# Potential employers include:

- · Chemtronics Biomedical Engineering
- Epworth HealthCare
- · Bio-Rad Laboratories Pty Ltd
- Brainlab
- The Queen Elizabeth Hospital.

# **Bachelor of Engineering (Robotics)** (Honours)

Create a career designing the robot workforce of the

Yes\*

224841

75.00

Changes to the way our workforce operates are opening up career opportunities in fields like robotics. This degree will see you graduate with the latest learning in robotics technologies, preparing you to become a key player in developing the robots that will populate our future. The degree combines electronics, computer control, signal processing and programming in the design, development and application of robots, and their integration with other systems in the work environment.

### Bachelor of Engineering (Robotics) (Honours)



ASSUMED KNOWLEDGE SATAC CODE 2020 MINIMUM SELECTION RANK GUARANTEED ENTRY SELECTION RANK TAFELINK ADJUSTMENT FACTORS

80.00 Diploma or above

- \* SACE stage two specialist mathematics,
- \*\* Knowledge of SACE stage two physics or equivalent is assumed.

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

- You'll study the latest robotics technology, and learn about electronics, computer control signal processing, development and application of robots.
- Put your robotics engineering skills to the test in a range of national competitions like NI-ARC, AGVC, and Maritime RobotX Challenge
- · You'll have access to purposebuilt state-of-the-art teaching and laboratory facilities and heavy engineering pods at Tonsley.
- Undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- There are opportunities to take your studies overseas with a student exchange program.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.
- This course is accredited by the Australian Computer Society at the professional level and is recognised internationally under the Seoul Accord.

#### **CAREER OPPORTUNITIES**

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

- · robotics engineer
- robotics sensor integration specialist
- · mechatronic engineer
- · process and automation engineer • instrument engineer

# Potential employers include:

13

- Lockheed Martin Monadelphous
- Smart Automation Systems
- Simavita
- Rocket Lab







FIND OUT MORE FLINDERS.EDU.AU/ENGINEERING

# **Bachelor of Engineering (Robotics)** (Honours)/Master of Engineering (Electrical and Electronic) New in 2021

Engineer your career. From robotics engineering to an electrical and electronic engineering masters.

Create a career designing the robot workforce of the future. This degree will see you graduate with the latest learning in robotics technologies, preparing you to become a key player in developing the robots that will populate our future.

**Bachelor of Engineering** (Robotics) (Honours)/Master of Engineering (Electrical and Electronic)



Yes	PREREQUISITES
Yes*	ASSUMED KNOWLEDGE
244451	SATAC CODE
N.A	2020 MINIMUM SELECTION RANK
95.00	GUARANTEED ENTRY SELECTION RANK
N.A	TAFELINK
Yes	ADJUSTMENT FACTORS

- \* SACE stage two specialist mathematics, mathematical methods or equivalent.
- \*\* Knowledge of SACE stage two physics or equivalent is assumed.

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

- · You'll study a robotics degree based on key elements of the latest robotics technology, and learn about electronics, computer control, signal processing, development and application of robots.
- · Continue to a Master of Engineering (Electrical and Electronic) to open up even more career opportunities.
- Put your robotics engineering skills to the test in a range of national competitions like NI-ARC, AGVC, and Maritime RobotX Challenge
- · You'll access purpose-built stateof-the-art teaching and laboratory facilities and heavy engineering pods at Tonsley.
- Undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- There are opportunities to take your studies overseas with a student exchange program.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.

#### **CAREER OPPORTUNITIES**

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

- · robotics engineer
- robotics sensor integration
- · mechatronic engineer
- · process and automation engineer
- instrument engineer.

# Potential employers include:

- Lockheed Martin
- Smart Automation Systems
- Monadelphous
- Simavita
- Rocket Lab



# **Bachelor of Engineering (Software)** (Honours)

Build a career combining your engineering skills with the power of computer technology.

Widen your career opportunities with this future-oriented course, enabling you to choose a course of study with either an electronics or computer science focus. This degree provides you with a solid foundation in the technical and professional skills and knowledge required to pursue a successful career in the software industry.

#### **Bachelor of Engineering** (Software) (Honours)





- \* SACE stage two specialist mathematics,
- \*\* 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

- · The degree has been specifically created for students looking to work as professional software engineers.
- You'll develop technical and professional software skills
- · You'll have access to purposebuilt state-of-the-art teaching and laboratory facilities at Tonsley.
- · Through our extensive industry links, undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- Develop practical skills in programming, testing, network engineering operating systems, design and automation, and signals and systems
- There are opportunities to take your studies overseas as part of your industry placement
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.
- · This course is also accredited by the Australian Computer Society at the professional level.

### **CAREER OPPORTUNITIES**

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

- · engineering software developer
- graduate Linux developer
- Java developer
- · platforms engineer
- · graduate technical analyst

# Potential employers include:

- BAE Systems Australia
- Unico
- CSC
- Australian National Audit Office
- Lockheed Martin.

# **Bachelor of Engineering Science**

Get a career edge with a broad foundation in engineering

Develop the practical skills you'll need for a rewarding career, and graduate work-ready. In this degree you'll gain the foundations for further study in engineering or for a career in an engineering-related field. The degree offers specialisations in biomedical engineering, civil engineering, electrical and electronic engineering, mechanical engineering, software engineering, and design and technology.

214811

60.00

# **Bachelor of Engineering Science**



PREREQUISITES ASSUMED SATAC CODE 2020 MINIMUM SELECTION RANK SELECTION RANK

GUARANTEED ENTRY **TAFELINK** Cert IV or above **ADJUSTMENT** FACTORS

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

- You'll learn the fundamental science that underpins engineering and how to apply those principles in practice.
- · You can choose a specialisation in biomedical, civil, electrical and electronic, mechanical, or software engineering.
- The degree provides a pathway to a four-year accredited Bachelor of Engineering in an engineering field of your choice.
- There are no prerequisites or assumed knowledge, you just need an enquiring mind.
- The degree provides additional topics and support for students who do not have a background of year-12 mathematics and physics.
- · You'll have access to purposebuilt state-of-the-art teaching and laboratory facilities at Tonsley.
- · You'll undertake an engineering project or industry placement.

#### **CAREER OPPORTUNITIES**

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

- · construction materials technician
- graduate consultant
- · laboratory assistant
- graduate process improver.

# Potential employers include:

- Defence Science & Technology Group
- · Safe Environments Pty Ltd
- Department of Industry, Innovation and Science
- · Agilent Technologies.

















# THERE'S MORE THAN ONE WAY TO GET INTO AN ENGINEERING DEGREE AT FLINDERS

# At Flinders, there are multiple entry pathways you can study to become an accredited engineer, even if you:

- · have minimal maths and physics background
- · don't know what area of engineering you want to specialise in
- · have a lower ATAR than you had hoped for or
- finished school some years back

Flinders' engineering courses have a common first year which enables you to get a taste of engineering disciplines and delay your choice of specialisation until you have experienced engineering as a whole, or transfer between courses if you change your mind.

#### **Bachelor of Engineering** (Honours) - General Entry

YEARS FULL-TIME PREREQUISITES	1.5 years Yes*
ASSUMED KNOWLEDGE	None
SATAC CODE	244441
2020 MINIMUM SELECTION RANK	NA
GUARANTEED ENTRY SELECTION RANK	80.00

\* SACE stage two general mathematics or

#### A feeder to engineering for those with less mathematics.

Flinders' General Entry pathway to the Bachelor of Engineering (Honours) provides a guaranteed entry pathway for students who have passed SACE Stage 2 General Mathematics or SACE Stage 1 Mathematics. The course includes additional mathematics and physics, enabling students to transfer into and complete any of Flinders Bachelor of Engineering (Honours) degrees in 4.5 years or less.

#### **Bachelor of Engineering** (Honours) - Flexible Entry

year pathway† Yes*	YEARS FULL-TIME 1 PREREQUISITES
Yes**	ASSUMED KNOWLEDGE
234931	SATAC CODE
75.00	2020 MINIMUM SELECTION RANK
80.00	GUARANTEED ENTRY SELECTION RANK

- † After completion of this pathway you will be ready for second year in your selected engineering degree
- \*SACE stage two specialist mathematics mathematical methods or equivalent.
- \*\*Knowledge of SACE stage two physics

#### Get a taste of engineering before choosing your specialisation.

Embark on a first-year engineering degree without choosing the engineering specialisation you wish to pursue with the Bachelor of Engineering (Honours) - Flexible Entry. At the end of your first year you can transition to a named engineering degree of your choice without having to study the standard four-year course.

This degree provides a pathway to the following degrees:

- · Bachelor of Engineering (Biomedical) (Honours)\*
- Bachelor of Engineering (Civil) (Honours)
- Bachelor of Engineering (Electrical and Electronic) (Honours)
- Bachelor of Engineering (Environmental) (Honours)
- Bachelor of Engineering (Maritime) (Honours)
- · Bachelor of Engineering (Mechanical) (Honours)
- Bachelor of Engineering (Robotics) (Honours)
- · Bachelor of Engineering (Software) (Honours)\*.
- \* Students who transfer to the Bachelor of Engineering (Biomedical) (Honours) or Bachelor of Engineering (Software) (Honours) will still receive 36 units of credit but may not be able to complete in minimum time due to

# **Bachelor of Engineering Science**

EARS FULL-TIME	3
REREQUISITES	None
SSUMED KNOWLEDGE	None
ATAC CODE	214811
020 MINIMUM ELECTION RANK	60.00
UARANTEED ENTRY ELECTION RANK	70.00

# Get a broad foundation in engineering principles.

Gain the foundations for further study in engineering or for a career in an engineering-related field. The degree offers specialisations in biomedical engineering, civil engineering, electrical engineering, electronic engineering, mechanical engineering, software engineering, and design and technology.

This degree provides a pathway to the following degrees:

- · Bachelor of Engineering (Biomedical) (Honours)
- Bachelor of Engineering (Civil) (Honours)
- Bachelor of Engineering (Electrical and Electronic) (Honours)
- Bachelor of Engineering (Environmental) (Honours)
- Bachelor of Engineering (Maritime) (Honours)
- · Bachelor of Engineering (Mechanical) (Honours)
- Bachelor of Engineering (Robotics) (Honours)
- · Bachelor of Engineering (Software) (Honours).

More information on the Bachelor of Engineering Science can be found on page 16.

# Bachelor of Engineering (Electrical and Electronic) (Honours)

SATAC CODE 244431



Prerequisites: SACE stage two specialist mathematics or mathematical methods or equivalent.

Electrical engineering is concerned with large scale electrical systems including renewable power generation and electric motors. Electronic engineering focusses on lower voltage systems such as computer systems, communication networks and integrated circuits. Together they are critical for next generation applications such as autonomous vehicles, space technology, smart cities and a low-carbon economy.

# Bachelor of Engineering (Environmental) (Honours)

SATAC CODE 244401



Prerequisites: SACE stage two specialist mathematics or mathematical methods or equivalent.

Environmental engineering is where advances in science and technology are transformed into practical solutions that will protect and improve the quality of our environment. Environmental engineers are problem-solvers who design solutions to a range of hazards from airborne and waterborne diseases, water and air pollution, wastewater management and recycling.

# Bachelor of Engineering (Honours) - General Entry

SATAC CODE 244441



Prerequisites: SACE stage two general mathematics or equivalent.

Flinders' General Entry provides a pathway to an Engineering specialisation for students who have passed SACE Stage 1 Mathematics or Stage 2 General Mathematics.

# Bachelor of Engineering (Robotics) (Honours)/Master of **Engineering (Electrical and Electronic)**

SATAC CODE 244451





Prerequisites: SACE stage two specialist mathematics or mathematical methods or equivalent

Create a career designing the robot workforce of the future. This degree will see you graduate with the latest learning in robotics technologies, preparing you to become a key player in developing the robots that will populate our future. High-achieving students can use the Bachelor of Engineering (Robotics) (Honours) as a pathway into a Master of Engineering (Electrical and Electronic).

# Bachelor of Engineering Technology (Electronic Systems and Security)

SATAC CODE 244411





Prerequisites: SACE stage two general mathematics or equivalent.

Developed in collaboration with Defence Science and Technology Group within the Department of Defence, the course encompasses a wide range of communication mediums including radar, radio and microwaves. A particular focus will be placed on technologies that adopt these in conjunction with studies in signal processing, infrared imaging systems, multi-spectral sensing, satellite communications, computer networks and telecommunications.

# Bachelor of Engineering Technology (Electronic Systems and Security)/Bachelor of Science (Physics)

SATAC CODE 244421



Prerequisites: SACE stage two general mathematics or equivalent.

This 4-year combined degree represents a unique and exciting pathway to work in a cutting-edge high technology area. The pairing of a Bachelor of Engineering Technology with a Bachelor of Science in Physics represents a pathway to a well-paid and life-long career at the forefront of electronic and electromagnetic technologies. The Bachelor of Engineering Technology (Electronic Systems and Security) is unique

# FIND OUT MORE FLINDERS.EDU.AU/NEWCOURSES











FIND OUT MORE FLINDERS.EDU.AU/ENGINEERINGPATHWAYS



# **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



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

### Bachelor of Mathematical Sciences (Honours)





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

\* 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
- · You'll develop advanced research, communication and technical
- 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

# **Combined degrees**

All science and engineering degrees can be combined

By combining your degree with a qualification in another discipline, you'll connect diverse knowledge in unique ways and develop specialised abilities to help you stand out from the pack. Studying a combined degree at Flinders is the key to enhancing your career opportunities.

Example degree combination

# Bachelor of Design and Technology Innovation/Bachelor of Science (Environmental Science)

#### SATAC CODE 224772

Develop your scientific skills in order to solve problems in a variety of fields and create commercial solutions.

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





# 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.

# GET MORE OUT OF YOUR STUDY

# **Combined degrees**

Combining your degree with a qualification in another discipline will give you more expertise and expand your career prospects. Studying a combined degree at Flinders will help you stand out from the crowd.

A combined degree is a combination of two Flinders bachelor degrees. As a combined degree graduate you will have two qualifications in just one to one-and-a-half years of extra study.

Our combined degree programs are designed to enhance your educational, academic and professional qualifications while minimising the cost and length of your studies. Flinders' combined degrees allow you to undertake in-depth study in exciting combinations that aren't usually available in single degrees.

flinders.edu.au/combineddegrees

# **Bachelor of Letters**

The Bachelor of Letters is available to study alongside any degree at Flinders and enables you to graduate with two qualifications.

The Bachelor of Letters is available in the following disciplines:

- Archaeology
- Creative enterprise
- Creative writing
- Criminology
- English
- Health
- History
- Innovation and enterprise
- Languages (French, Italian, Modern Greek, Spanish)
- Mathematics
- · Sports performance coaching
- Theology.

The Bachelor of Letters is normally undertaken part-time over three years to allow concurrent study with your primary bachelor degree, adding one year to your overall study program.

# BEGIN YOUR JOURNEY TO A SUCCESSFUL CAREER

# **Bachelor of General Studies**

The Bachelor of General Studies (SATAC code: 234181) is a flexible degree that provides a sound basis of knowledge in an area of your choice. It is 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. Successful completion of the first year to the required standard also provides you with guaranteed entry into a range of our degrees.

flinders.edu.au/study/courses/bachelor-general-studies

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# **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

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# 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)

#### TAFFlink

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 Ent

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

#### Rachelor 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

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# 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:

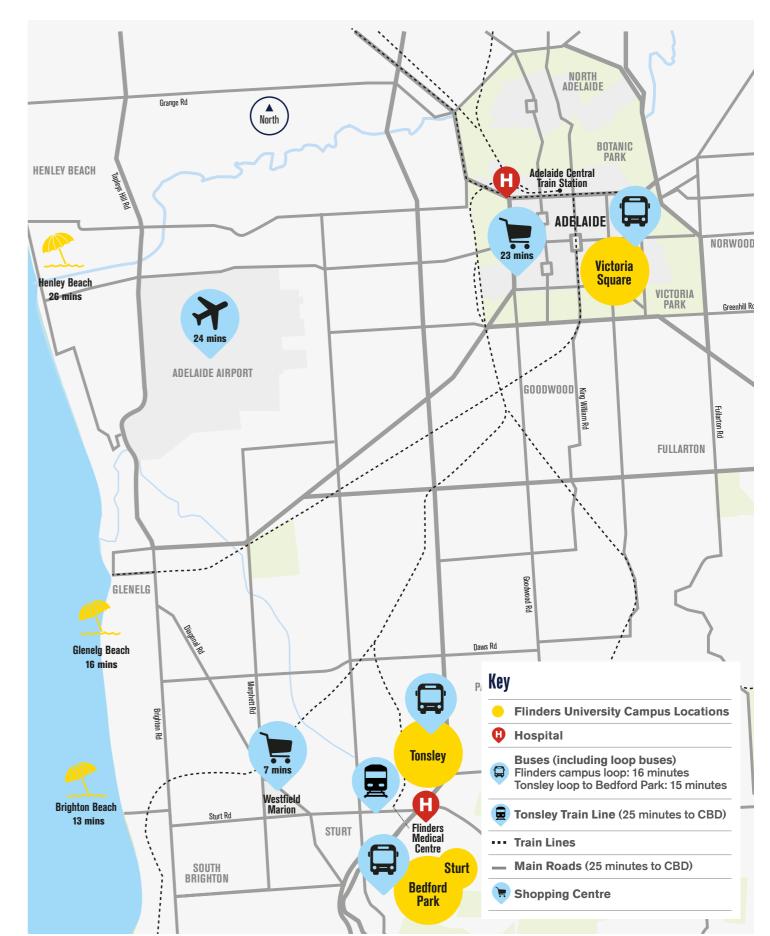
26 July 2021

# **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** 



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