Taking your first step into university life is a big change. New faces, new spaces, new experiences.

That’s why at Flinders, we do all we can to make your time at university the best it can be.

Our facilities are purpose-built for your study needs, providing the best the world has to offer.

Plugged into industry trends, professional placements and practical experiences, our teaching is designed to take you from learning to earning.

Our researchers and lecturers are ready to equip you with up-to-the-minute knowledge based on our world-class research. You’ll gain specialised skills and knowledge in your chosen field plus develop abilities in independent thinking, communication, collaboration, ethics and creativity — qualities that will prepare you to become an expert and innovator in your field.

Everything we do at Flinders is designed to give you the best possible study experience and prepare you not just to succeed, but to go beyond.

Find out more flinders.edu.au/experience

Make a difference to the world around you. Engineers help build the future, and you could be one of them.

**DESIGN THE FUTURE OF YOUR DREAMS**

There are few fields as broad or as rewarding as engineering. If you can imagine it, chances are you can help bring it to life. From robotics to renewable energy, ship building and defence, civil engineering or creating new medical technologies... the list is endless and the opportunities are broad. You can help design and build tomorrow.

**A REWARDING CAREER**

Engineers are in high demand worldwide. Demand for electrical engineers is increasing. The world of robotics is changing rapidly, and large-scale civil engineering projects are being conducted in many areas. A career in engineering can be interesting, challenging and rewarding.

**STUDY FOR SUCCESS**

Flinders Engineering degrees are offered in close collaboration with industry, giving you specialist knowledge and an integrated “toolbox” of skills that will enable you to meet the requirements of industry as it continues to change. You’ll be plugged into our $120m hub of innovation and entrepreneurship at Tonsley and graduate with a high level of skills, ready to take on the world.

**No 1. SA UNI**

No 1 SA University in engineering and technology for learning resources, student support and teaching quality.

**A CAREER POWERED BY CREATIVITY**

STUDY ENGINEERING AT FLINDERS
There are many different directions you can take within engineering. Your career can be guided by where your passions lie.

Do you love the idea of designing the cities we live in? Do you get excited by large-scale civil projects?

Are you passionate about medical technology and how it can help? Would you like to design health care systems that could make a real difference?

Do you get excited by the idea of creating robotics and electronic systems that could change the way we live our lives?

**CHOOSE YOUR CAREER**

- Bachelor of Design and Technology Innovation – see page 5
- Bachelor of Engineering (Biomedical) (Honours) – see page 5
- Bachelor of Engineering (Biomedical) (Honours)/ Master of Engineering (Biomedical) – see page 7
- Bachelor of Engineering (Civil) (Honours) – see page 7
- Bachelor of Engineering (Computer and Network Systems) (Honours) – see page 8
- Bachelor of Engineering (Electrical) (Honours) – see page 8
- Bachelor of Engineering (Electronics) (Honours) – see page 10
- Bachelor of Engineering (Maritime) (Honours) – see page 10

- Bachelor of Engineering (Mechanical) (Honours) – see page 11
- Bachelor of Engineering (Mechanical) (Honours)/ Master of Engineering (Biomedical) – see page 11
- Bachelor of Engineering (Robotics) (Honours) – see page 12
- Bachelor of Engineering (Robotics) (Honours)/ Master of Engineering (Electronics) – see page 12
- Bachelor of Engineering (Software) (Honours) – see page 13
- Bachelor of Engineering Science – see page 13
- Bachelor of Mathematical Sciences – see page 16

- Bachelor of Design and Technology Innovation
- Bachelor of Engineering (Biomedical) (Honours)

**THE WORLD NEEDS ENGINEERS**

**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 these areas: design, innovation management; and science, technology and engineering.

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.

**Bachelor of Design and Technology Innovation**

**SELECTION RANK**

2019 MINIMUM
SATAC CODE 224771
GUARANTEED ENTRY
SELECTION RANK TAFELINK
TAPELINK
ADJUSTMENT FACTORS
None
75.00
Cert IV or above
UES, LLM

**PREREQUISITES**

Assumed Knowledge
SATAC CODE
2019 MINIMUM
SELECTION RANK
GPA
TAFELINK
TAPELINK
ADJUSTMENT FACTORS

* One to two years if taken as a combination with an engineering science, IT, environment or business degree.

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

**You’ll learn to match a problem with technology to create a commercial solution.**

**You’ll gain an understanding of industrial design, technology and innovation in one degree.**

**Enhance your employability with highly attractive, vital skills in the rapidly changing innovation sector.**

**Gain practical, hands-on exposure to the cutting-edge equipment and facilities of Flinders University’s new technology precinct at Tonsley.**

**You’ll have the chance to participate in a 12-week industry work integrated placement.**

**This degree is recognised by the Design Institute of Australia.**

**There are opportunities to take your studies overseas with a 12-week practical work experience placement in Europe, Asia or North America.**

**CAREER OPPORTUNITIES**

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

- project designer
- business development manager
- commercialisation specialist
- graduate consultant
- innovation strategist.

Potential employers include:

- CSR Limited
- CSIRO
- Department of Industry, Innovation and Science
- Clipsal
- Adidas.

**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 health care 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 (Biomedical) (Honours)**

**SELECTION RANK**

2019 MINIMUM
SATAC CODE 224781
GUARANTEED ENTRY
SELECTION RANK TAFELINK
TAPELINK
ADJUSTMENT FACTORS
None
75.00
Diploma or above
UES, LLM

**PREREQUISITES**

Assumed Knowledge
SATAC CODE
2019 MINIMUM
SELECTION RANK
GPA
TAFELINK
TAPELINK
ADJUSTMENT FACTORS

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

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

* Mathematical methods (2MHS20) from 2017, or mathematical studies (2MDS20) if studied in 2016 or prior.

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

**You’ll study unique topics such as rehabilitation and assistive technology.**

**Finders 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 electronics-based 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.**

**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-Flad Laboratories Pty Ltd
- Brainlab
- The Queen Elizabeth Hospital.

Find out more
flinders.edu.au/engineering
"Studying at Flinders has helped me find my feet again after eight years in the military. I love using Tonsley's facilities and know that the Engineering degrees I have pursued will give me the best job outcome."

Chris Turner, Bachelor of Civil and Mechanical Engineering

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 health care 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 (Biomedical) (Honours)

- 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 electronics-based 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.

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.

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

Bachelor of Engineering (Civil) (Honours)

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.

CAREER OPPORTUNITIES
Your degree is the first step towards a range of employment opportunities, including:
- graduate civil engineer
- graduate civil design engineer
- traffic and road safety officer
- graduate project manager
- laboratory engineer.

Potential employers include:
- SA Department for Planning, Transport and Infrastructure
- SA Water
- Land Lease
- Aurecon
- Department of Defence.

Find out more flinders.edu.au/engineering
Bachelor of Engineering (Computer and Network Systems) (Honours)

You could engineer tomorrow’s interconnected computer systems today.

Work towards a career helping develop and maintain the systems that tie the world together. This degree prepares you to develop the specialised skills to design and analyse hardware systems and algorithms for products such as mobile phones and gaming consoles through to aircraft flight control systems, unmanned vehicles and global telecommunications systems.

You’ll gain the technical knowledge and agility to graduate ready to respond to a rapidly changing marketplace.

Bachelor of Engineering (Computer and Network Systems) (Honours)

- **PREREQUISITES** Yes*
- **KNOWLEDGE** ASSUMED
  - SACE stage two specialist mathematics, mathematical methods or equivalent.
  - Knowledge of SACE stage two physics or equivalent is assumed.
  - Mathematical methods (1MHS20) from 2017, or mathematical studies (1MDM20) if studied in 2016 or prior.

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

**KNOWLEDGE ASSUMED**

- SACE stage two specialist mathematics, mathematical methods or equivalent.
- Knowledge of SACE stage two physics or equivalent is assumed.
- **FACTORS**
  - Knowledge of SACE stage two physics or equivalent is assumed.
  - Mathematical methods (1MHS20) from 2017, or mathematical studies (1MDM20) if studied in 2016 or prior.

**ADJUSTMENT**

- SATAC CODE 234081
- **SELECTION RANK** 80.00
- **GUARANTEED ENTRY** 75.00
- **TAFELINK** Diploma or above

**FULL-TIME AVAILABLE**

- **NUMBER OF YEARS** 4 PT
- **PART-TIME AVAILABLE**
- **REQUIREABLE**

**CAREER OPPORTUNITIES**

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

- computer systems engineer
- system analyst
- graduate tester
- network engineer
- software engineering developer.

Potential employers include:

- CSIR Limited
- Nextgen Services Pty Ltd
- Australian Bureau of Statistics
- IAC Pacific
- Macquarie Group.

Bachelor of Engineering (Electrical) (Honours)

Develop the skills to power the machines of the future.

The electrical systems we use across our societies are changing rapidly. New ideas and new technologies are driving new efficiencies in design, and a worldwide shortage of professional electrical engineers is driving demand for skilled graduates.

This degree will give you a strong foundation in the systematic development of electrical systems, with an emphasis on renewable energy systems and electrical drive systems.

Bachelor of Engineering (Electrical) (Honours)

- **PREREQUISITES** Yes*
- **KNOWLEDGE** ASSUMED
  - SACE stage two specialist mathematics, mathematical methods or equivalent.
  - Knowledge of SACE stage two physics or equivalent is assumed.
  - Mathematical methods (1MHS20) from 2017, or mathematical studies (1MDM20) if studied in 2016 or prior.

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

**KNOWLEDGE ASSUMED**

- SACE stage two specialist mathematics, mathematical methods or equivalent.
- Knowledge of SACE stage two physics or equivalent is assumed.
- **FACTORS**
  - Knowledge of SACE stage two physics or equivalent is assumed.
  - Mathematical methods (1MHS20) from 2017, or mathematical studies (1MDM20) if studied in 2016 or prior.

**ADJUSTMENT**

- SATAC CODE 224811
- **SELECTION RANK** 80.00
- **GUARANTEED ENTRY** 75.00
- **TAFELINK** Diploma or above

**FULL-TIME AVAILABLE**

- **NUMBER OF YEARS** 4 PT
- **PART-TIME AVAILABLE**
- **REQUIREABLE**

**CAREER OPPORTUNITIES**

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

- distribution line designer
- electrical engineer
- graduate acoustic consultant
- graduate consultant
- power systems graduate electrical engineer.

Potential employers include:

- SA Power Networks
- Automation Group
- Parsons Brinckerhoff
- Mott MacDonald Australia and New Zealand
- Defence Science and Technology Group.

Find out more

flinders.edu.au/engineering
Bachelor of Engineering (Electronics) (Honours)

You could start a career designing the tiny circuits that enable big technology.

Electronics is the enabling technology for today's society, and career opportunities are wide ranging. In this degree, you'll learn the skills and knowledge to plan, design and build the electronic circuitry that is integral to an extensive range of high technology applications.

Your skills will help design the technology of tomorrow.

Bachelor of Engineering (Electronics) (Honours)

PREREQUISITES

ASSUMED KNOWLEDGE

SACE CODE

2019 MINIMUM

SELECTION RANK

GUARANTEED ENTRY

SELECTION RANK

TAFELINK

UOE, LLM

Yes*  

Yes**

234491

80.00

80.00

Diploma or above

FACTORS

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

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

• Mathematical methods (3MHS20) from 2017, or mathematical studies (SMDS30) if studied in 2016 or prior.

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

Bachelor of Engineering (Electronics) (Honours) (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.

Bachelor of Engineering (Maritime) (Honours)

PREREQUISITES

ASSUMED KNOWLEDGE

SACE CODE

2019 MINIMUM

SELECTION RANK

GUARANTEED ENTRY

SELECTION RANK

TAFELINK

UOE, LLM

Yes*  

Yes**

234491

80.00

80.00

Diploma or above

FACTORS

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

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

• Mathematical methods (3MHS20) from 2017, or mathematical studies (SMDS30) if studied in 2016 or prior.

• Undertake nationally recognised integrated work placement with a local, national or international organisation, giving 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.

CAREER OPPORTUNITIES

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

• graduate radio-frequency engineer

• graduate product design engineer

• graduate logistics engineer

• graduate product design engineer

• marine design engineer

• graduate production engineer.

Potential employers include:

• Kordia Solutions

• Lockhead Martin

• ABB/MARC

• Saab Systems

• Thales Group.

Bachelor of Engineering (Maritime) (Honours) (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.

Bachelor of Engineering (Mechanical) (Honours)

PREREQUISITES

ASSUMED KNOWLEDGE

SACE CODE

2019 MINIMUM

SELECTION RANK

GUARANTEED ENTRY

SELECTION RANK

TAFELINK

UOE, LLM

Yes*  

Yes**

234491

80.00

80.00

Diploma or above

FACTORS

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

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

• Mathematical methods (3MHS20) from 2017, or mathematical studies (SMDS30) if studied in 2016 or prior.

• You can put your mechanical engineering skills to the test in a range of national competitions like the Solar Car Challenge and Warman Design Competition.

• Become involved in Formula SAE, Solar Car Challenge, UAV and Miniker 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.

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/ scientific

• mechanical design engineer

• graduate production engineer.

Potential employers include:

• SAE Systems (Australia)

• Naval Group (Australia)

• Department of Defence

• Australian Defence Force

• Raytheon Australia.

Bachelor of Engineering (Mechanical) (Honours) (Honours)

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

SACE CODE

2019 MINIMUM

SELECTION RANK

GUARANTEED ENTRY

SELECTION RANK

TAFELINK

UOE, LLM

Yes*  

Yes**

234471

95.00

95.00

NA

FACTORS

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

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

• Mathematical methods (3MHS20) from 2017, or mathematical studies (SMDS30) if studied in 2016 or prior.

• You can put your mechanical engineering skills to the test in a range of national competitions like the Solar Car Challenge and Warman Design Competition.

• Become involved in Formula SAE, Solar Car Challenge, UAV, Miniker 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.

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

• B/E Radio Laboratories Pty Ltd

• Brunel

• The Queen Elizabeth Hospital.

Find out more

flinders.edu.au/engineering
Bachelor of Engineering (Mechanical) (Honours)

Create a career designing the robot workforce of the future.

Changes to the way our workforce operates is opening up career opportunities in fields like robotics. This degree will see you graduate with the latest knowledge 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 operation of robots, and their integration with other systems in the work environment.

Bachelor of Engineering (Robotics) (Honours)/Master of Engineering (Electronics)

Engineer your career. From robotics engineering to an electronics engineering master.

Take part in a combination that allows high-achieving students like you to complete a program of study in robotics and electronics in only five years, and graduate ready for a career in an exciting and challenging field. It combines electronics, computer control, signal processing and programming in the design, development and operation of robots, and their integration with other systems in the work environment.

Bachelor of Engineering (Software) (Honours)

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 Science

Get a career edge with a broad foundation in engineering principles.

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.

Bachelor of Engineering Science (Honours)

• 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 purpose-built state-of-the-art teaching and laboratory facilities at Tonsley.
• You’ll undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.

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
• CSIRO
• Department of Industry, Innovation and Science
• Agilent Technologies.

Find out more
flinders.edu.au/engineering
We're lucky to have so much amazing technology at our fingertips at Tonsley. The fact that I get to study where the latest technology is being developed makes me feel like I am part of something bigger.

Alex Benn, Bachelor of Robotics Engineering (Honours) / Bachelor of Computer Science

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 (Computer and Network Systems) (Honours)
• Bachelor of Engineering (Electrical) (Honours)
• Bachelor of Engineering (Electronics) (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 13.

At Flinders we recognise that everyone is an individual. That’s why we provide flexible entry pathways into our engineering courses.

Bachelor of Engineering Science (Honours) – Flexible Entry
YEARS FULL-TIME 3
PREREQUISITES None
ASSUMED KNOWLEDGE None
SATAC CODE 214811
2019 MINIMUM SELECTION RANK 60.00
GUARANTEED ENTRY SELECTION RANK 70.00

* 4 years includes one year of the Bachelor of Engineering (Honours) – Flexible Entry. 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 prerequisite sequences.

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 (Computer and Network Systems) (Honours)
• Bachelor of Engineering (Electrical) (Honours)
• Bachelor of Engineering (Electronics) (Honours)
• Bachelor of Engineering (Maritime) (Honours)
• Bachelor of Engineering (Mechanical) (Honours)
• Bachelor of Engineering (Robotics) (Honours)
• Bachelor of Engineering (Software) (Honours).

Bachelor of Science (Chemical Sciences)/Master of Engineering (Materials)
YEARS FULL-TIME 5^†
PREREQUISITES Yes^*
ASSUMED KNOWLEDGE Yes**
SATAC CODE 234871
2019 MINIMUM SELECTION RANK 95.00
GUARANTEED ENTRY SELECTION RANK 95.00

^ SACE stage two chemistry plus specialist mathematics, mathematical methods## or equivalent.
## Mathematical methods (2MHS20) from 2017, or mathematical studies (2MDS20) if studied in 2016 or prior.
** Knowledge of SACE stage two physics or equivalent is assumed.

Engineer a pathway from chemical sciences to a materials engineering masters.

High-achieving students can undertake a program of study in chemical sciences and materials engineering in only five years with this degree combination. It prepares you with a broad-based foundation in chemistry before continuing to the masters, which provides an understanding of advanced processing and fabrication methods of engineering materials and their characterisation.

Engineer a pathway from chemical sciences to a materials engineering masters.
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 logistics 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
Yes* None
ASSUMED KNOWLEDGE
SATAC CODE
224641
2019 MINIMUM SELECTION RANK
70.00
GUARANTEED ENTRY SELECTION RANK
70.00
TAPELINK
Diploma or above
ADJUSTMENT FACTORS
UES, LLM

Bachelor of Mathematical Sciences (Honours)

PREREQUISITES
Yes* None
ASSUMED KNOWLEDGE
SATAC CODE
224641
2019 MINIMUM SELECTION RANK
80.00
GUARANTEED ENTRY SELECTION RANK
80.00
TAPELINK
Diploma or above
ADJUSTMENT FACTORS
UES, LLM

* SACE stage two specialist mathematics, or equivalent.

Your skills 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 office
- consultant
- quantitative analyst
- customer research executive

Potential employers include:
- Mercer
- Bureau of Meteorology
- Australian Bureau of Statistics
- The Nielsen Company
- Australian Securities and Investments Commission.

Unlock more career opportunities by combining degrees.

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.

Find out more about combining degrees at flinders.edu.au/combined-degrees.

Bachelor of Engineering (Biomedical) (Honours) / Bachelor of Engineering (Electronics) (Honours)

YEARS FULL-TIME
5-6.5

PREREQUISITES
Yes* None
ASSUMED KNOWLEDGE
SATAC CODE
224782
2019 SELECTION RANK
75.00
GUARANTEED ENTRY SELECTION RANK
80.00

The developers of many medical devices require substantial knowledge of electronic systems. This combination provides you with the knowledge to create advanced electronic devices that can be used in healthcare applications.

* SACE stage two specialist mathematics, or equivalent.

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.

Find out more about combining degrees at flinders.edu.au/combined-degrees.

We're here to help

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

Transition to university

Starting at university is a big step, let's make it easier.

The Transition Office can help make your shift into university study as smooth as possible, and the Student Learning Centre provides a range of services from writing and mathematics support to assistance with study and time-management skills.

Work-Integrated Learning

Work-Integrated Learning (WIL) enables you to gain work experience while you study.

Flinders aims to provide each and every student with access to a WIL opportunity during their studies through placements, practicums, field studies, and simulated workplace settings and assessment activities.

Scholarships

Flinders University offers over $500,000 undergraduate scholarships, worth $2.2M in total. A generous range of scholarships is available to new and continuing undergraduate students.

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 University Student Association (FUSA)

Flinders has a long history of active student involvement.

The Flinders University Student Association (FUSA) continues that tradition, 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.

Careers & Employability Service

The Careers and Employability Service helps you find your direction and start your career. Whatever you are studying, CareerHub can help you find your direction and start your career.

Find out more

flinders.edu.au/工程学

Find out more

flinders.edu.au/工程学

Find out more

flinders.edu.au/innovation

INNOVATION & ENTERPRISE

Careers are evolving and the workplace of the future will look very different from today.

That’s why we offer a suite of innovation and enterprise electives and courses to prepare you for the careers of tomorrow. Powered by Flinders’ New Venture Institute, these electives 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.

Find out more

flinders.edu.au/innovation

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

To find out more about your admission pathways to Flinders, visit: flinders.edu.au/pathways

**Admission Pathways**

At Flinders we recognise that every prospective student is an individual and that what works for one might not be right for another. That’s why we provide various admission pathways into Flinders University and your preferred degree. You’re encouraged to explore your options and find the entry path that’s right for you.

**Year 12 Entry**

The majority of Year 12 applicants enter university via the traditional competitive 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. The 2019 Minimum Selection Rank is the minimum selection rank required for consideration to enter in next intake. The 2019 selection rank indicates the lowest rank for which an offer was made to an applicant in that degree for the previous year (including any adjustment factors). This selection rank is provided only as a guide for 2020 entry as it may change from year to year.

**Adjustment Factors**

Adjustment factors (formerly referred to as bonus points) may be used in combination with your ATAR to derive your course selection rank. Adjustment factors may be available for South Australian Year 12 students applying for entry to Flinders in 2020: the SA Universities Equity Scheme (USES) and the SA Language, Literacy and Mathematics Bonus Scheme (LLM).

**Guaranteed Entry Selection Rank**

AFL: 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.

**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).

**BACHELOR OF GENERAL STUDIES**

The Bachelor of General Studies 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.

Get more out of your degree

Whatever you’re studying, Flinders gives you the opportunity to do more with your degree to help you have a competitive edge when you graduate.

A combined degree is a combination of two Flinders bachelor degrees, meaning you will have two qualifications in just one: one-and-a-half years of extra study and undertake in-depth study in exciting combinations that aren’t usually available in single degrees.

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

**When can I start?**

Flinders offers two admissions cycles each year for undergraduate degrees.

Semester 1 – February 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

**Flinders UniLeap**

Flinders UniLeap can help you qualify for entry into a Flinders University degree in four weeks. It’s a free intensive four-week program that has been designed for school leavers, to develop their independent learning skills and prepare them for university study.

**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.

**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. Importantly, your TAFE/VET qualification does not need to be related to your selected area of study at Flinders.

TAFE SF dual offers

You can apply for a TAFE SA diploma or advanced diploma that is linked to a Flinders degree. You’ll receive an offer to both TAFE SA and Flinders University and, on successful completion of the TAFE course, you’ll have secured an offer for a Flinders degree. TAFE SA dual offers are available for a range of Flinders degrees.* TAFE SA RTO Code: 41026

**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.

**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).**