Acknowledgement of Country

Flinders University acknowledges the Traditional Owners and Custodians of the lands and waters on which its campuses are located. These are the Traditional Lands of the Arrernte, Dagoman, First Nations of the South East, First Peoples of the River Murray & Mallee region, Jawoyn, Kaurna, Larrakia, Ngadjuri, Ngarrindjeri, Raminjjeri, Warumungu, Wurdaman and Yolngu people. We honour their Elders past, present and emerging.

Engineering

<table>
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<th>Engineering</th>
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The following pages feature undergraduate degree programs and information for domestic students, including SATAC codes, selection ranks and more. For international CRICOS codes, visit flinders.edu.au/international

At Flinders, it’s all about your global career

Choose your degree

Flinders University offers a range of future-focused degrees that will allow you to follow your interest across areas such as engineering, computer science, information technology and defence. Choose a degree that reflects your passions and graduate with the skills and knowledge to take your place in an ever-changing world.

Be taught by leaders

Flinders’ engineering, defence, computer science and information technology degrees are taught by highly-qualified academics who are active in their respective fields and have the practical skills and industry networks to ensure that you graduate more than ready for the next step in your career path.

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.

“Engineering is such an exciting field because it’s always changing and evolving, which means that the problems we’re faced with today will be completely different in a decade’s time. This degree has equipped me with the skills I need for a strong start in the field I’m pursuing, in both technical and professional aspects.”

An Lam
Graduate, Bachelor of Engineering (Mechanical) (Honours)/Master of Engineering (Biomedical)
Engineering

The career of your dreams

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. From robotics to renewable energy, shipbuilding and defence, civil engineering or creating new medical technologies... Flinders engineering graduates are working in a broad range of engineering fields across the globe. You can help design and build tomorrow.

Graduate ready for success

Flinders' engineering degrees are offered in close collaboration with industry. You'll be plugged into our $120 million hub of innovation and facilities of Flinders University’s new technology precinct at Tonsley. We are the only university to offer a SA’s longest engineering placement**.

SA’s longest engineering placement**

** Public SA-founded universities only

Up to 18 months with industry

Flinders' engineering’s Work Integrated Learning (WIL) program is South Australia’s longest industry placement. All Flinders engineering students have the opportunity to undertake a 20-week industry placement as part of their degree, helping them graduate work-ready. Honours students complete a research placement enabling them to work alongside professional engineers, tackling real-world problems, for up to 18 months in total.

Bachelor of Design and Technology

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 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.

- Gain an understanding of industrial design, technology and innovation in one degree and learn to match a problem with technology to create a commercial solution.
- 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 could open up a range of employment opportunities, including:
- product designer
- business development manager
- commercialisation specialist
- graduate consultant
- innovation strategist.

Potential employers include:
- CSR Limited
- CSIRO
- Department of Industry, Innovation and Science
- Adidas.

Bachelor of Engineering (Biomedical) (Honours)

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 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 and recognised internationally under the Washington Accord.

Career opportunities

Your degree could open up 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.

For more information visit: flinders.edu.au/computer-science-information-technology
**Bachelor of Engineering (Biomedical) (Honours) / Master of Engineering (Biomedical)**

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. 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.

- **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.**
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### Career opportunities

Your degree could open up a range of employment opportunities, including:

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

**Potential employers include:**

- ChaseTronics Biomedical Engineering
- Epworth HealthCare
- Bio-Rad Laboratories Pty Ltd
- BrainLab
- The Queen Elizabeth Hospital.

### Majors – Bachelor of Engineering (Civil) (Honours)

Be a part of the next generation of electrical and electronic technology. Electrical engineering is concerned with large-scale electrical systems including renewable power generation and electric motors. Electronic engineering focuses on lower voltage systems such as computer systems, communication networks and integrated circuits.

- **The electrical and electronic engineering degree at Flinders allows you to specialise in four areas: advanced electrical engineering, advanced electronic engineering, computer and network systems, and electronic systems and security.**
- **Our nationally recognised 20-week integrated work placement gives you the practical industry experience.**
- **You will develop both the practical skills and theoretical knowledge needed to design and build electrical and electronic systems and devices.**
- **The course provides opportunities for interdisciplinary learning with other students from different engineering disciplines.**
- **Study in world-class facilities in the new technology precinct at Tonsley.**

### Career opportunities

Your degree could open up a range of employment opportunities, including:

- computer systems engineer
- electrical power engineer
- electronic engineer
- security systems engineer
- telecommunications engineer.

**Potential employers include:**

- computer and telecommunications companies
- construction companies
- defence industry
- government and universities
- manufacturing
- mining and resources industry.

### Majors – Bachelor of Engineering (Civil) (Honours)

Choose from a range of majors that allow you to follow your interests and graduate ready to take on the world. Flinders Bachelor of Engineering (Civil) (Honours) allows you to select a major in any of the following areas:

- **Civil infrastructure**
- **Environmental engineering**
- **Structural engineering**
- **Transport systems engineering**

### Civil infrastructure

Explore the environmental and sustainability aspects of civil engineering. On top of the solid civil engineering core you will study topics such as sustainable engineering, waste management and hydrochemistry.

### Structural engineering

Study the development of civil engineered structures. To expand on your core civil engineering studies, you will also focus on concrete analysis and design, foundation design, and fatigue and fracture analysis.

### Transport systems engineering

This major focuses on the development of transport solutions in civil engineering. Career focused and industry informed, topics will include transport planning, modelling and remote sensing.

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

Choose from a range of majors that allow you to follow your interests and graduate ready to take on the world. Flinders Bachelor of Engineering (Electrical and Electronic) (Honours) allows you to select a major in any of the following areas:

- **Advanced electrical engineering**
- **Advanced electronic engineering**
- **Computer and network systems**
- **Electronic systems and security**

### Advanced electrical engineering

This major focuses on electrical engineering and includes study in electrical energy systems including high-voltage electrical power and renewable energy.

### Advanced electronic engineering

Supplementing your core studies, this major focuses on the use of electronics as a component of computers, communications technology and control systems.

### Computer and network systems

Study the application of electrical and electronic technology to create computer systems and networked devices.

### Electronic systems and security

Take your studies to the cutting edge. This major focuses on the electromagnetic spectrum and the way in which electronics can be used to assure electromagnatic security.
Bachelor of Engineering (Electrical and Electronic) (Honours)/Master of Engineering Management

The electrical and electronic engineering component is a comprehensive, accredited degree providing both a theoretical and a practical basis of electrical and electronic systems. The engineering management component combines the problem-solving and technical design ability of engineering with executive organisational skills and the planning power of business and management.

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<thead>
<tr>
<th>SATAC code (Tonsley)</th>
<th>244671</th>
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<tr>
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<td>Adjustment factors</td>
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</tbody>
</table>

* Knowledge of SACE stage two specialist mathematics or equivalent is assumed.
** Knowledge of SACE stage two general mathematics or equivalent is assumed.

Bachelor of Engineering (Environmental) (Honours)/Master of Engineering (Civil)

Combine the advantages of being an in-demand environmental engineer with the knowledge needed to become an accredited civil engineer.

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<td>Adjustment factors</td>
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</tr>
</tbody>
</table>

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

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

Developed in collaboration with the Defence Science and Technology Group within the Department of Defence, the course encompasses a wide range of communication mediums including radar, radio and microwaves.

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<td>Adjustment factors</td>
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</tbody>
</table>

* SACE stage one mathematics or stage two general mathematics or equivalent.
** Knowledge of SACE stage two general mathematics or equivalent is assumed.

Bachelor of Engineering Technology (Advanced Manufacturing and Digital Design)

Constructed with substantial industry input and support, this course enables students to learn both the fundamentals and the practical application of a range of advanced manufacturing, digital design and industry 4.0 techniques.

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<td>Adjustment factors</td>
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</table>

* SACE stage one mathematics or stage two general mathematics or equivalent.
** Knowledge of SACE stage two physics and general mathematics or equivalent is assumed.

Bachelor of Engineering (Civil) (Honours)/Master of Engineering Management

The civil engineering component is a comprehensive, accredited degree covering the four main civil engineering themes of structures, transport, water and geomechanics. The engineering management component combines the problem-solving and technical design ability of engineering with executive organisational skills and the planning power of business and management.

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<tr>
<td>Adjustment factors</td>
<td>Yes</td>
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</tbody>
</table>

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

Bachelor of Engineering (Mechanical) (Honours)/Master of Engineering Management

The mechanical engineering component is a comprehensive, accredited degree providing both a theoretical and a real-world practical basis for designing and developing complex mechanical devices. The engineering management component combines the problem-solving and technical design ability of engineering with executive organisational skills and the planning power of business and management.

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<td>Adjustment factors</td>
<td>Yes</td>
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</table>

* SACE stage two specialist mathematics or mathematical methods or equivalent.
** Knowledge of SACE stage two physics or equivalent is assumed.
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. They implement environmental engineering law and assess the environmental impact of proposed projects.

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, hydrodynamics and fluid mechanics, thermodynamics and energy engineering.

Bachelor of Engineering (Maritime) (Honours)

Build a hands-on career with real-world applications. Learn to design, construct and operate mechanical systems. This degree equips 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)

Choose from a range of majors that allow you to follow your interests and graduate ready to take on the world. Flinders’ Bachelor of Engineering (Mechanical) (Honours) allows you to select a major in any of the following areas:

- Mechanical engineering
- Electro-mechanical systems
- Materials engineering

Electro-mechanical systems

In many industrial sectors, mechanical engineers with a great understanding of electrical engineering principles are ideally preferred. This major uniquely provides a secondary course of study in electrical engineering on top of the core mechanical engineering topics. As well as the mechanical engineering topics, you will also cover electrical engineering principles, electrical machines, electrical energy and power systems.

Materials engineering

The development and engineering of materials enable mechanical engineers to design and manufacture products and devices with the best possible performance in service. This major focuses on the use of materials in mechanical systems. As well as the mechanical engineering topics, you will also study areas such as materials structure and characterisation, materials selection and failure analysis.

Maritime engineering

This major focuses on the use of mechanical systems in a maritime context. Taking this major will not only provide a comprehensive mechanical degree but also cover topics such as shipbuilding and cyber security systems. You will also have the opportunity to transfer to the University of Tasmania at the end of year two to complete a specialised maritime engineering degree.

Naval shipbuilding

With around 15,000 skilled and professional jobs expected to be created as part of the Naval Shipbuilding Enterprise, Flinders has partnered with the Naval Shipbuilding College and defence industry prides to ensure our graduates are ready to solve emerging defence career.

Flinders is the first Australian University to be endorsed for delivering courses aligned with the future employment needs of the naval shipbuilding industry, courses such as the Bachelor of Engineering (Honours) – Mechanical, Electrical and Electronic, Robotics, Software, or Maritime, and our Bachelor of Information Technology (Networks and Cybersecurity Systems).

By studying engineering at Flinders, you’ll have access to purpose-built teaching and laboratory facilities, personalised teaching, and great staff-student working relationships.
**Bachelor of Engineering (Mechanical) (Honours)/Master of Engineering (Biomedical)**

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, transport, 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.

- **Assumed knowledge:** Yes
- **Adjustment factors:** Yes
- **Guaranteed entry selection rank:** 95.00
- **Prerequisites:** Yes
- **TAFElink:** NA

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.

- **SATAC code:** 214811
- **3 years full-time
  - Part-time available

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

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.

- **Assumed knowledge:** Yes
- **Adjustment factors:** Yes
- **Guaranteed entry selection rank:** 95.00
- **Prerequisites:** Yes
- **TAFElink:** NA

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.

- **SATAC code:** 244451
- **4 years full-time
  - Part-time available

**Bachelor of Engineering Science**

- **Prerequisites:** None
- **Guaranteed entry selection rank:** 60.00
- **SATAC code:** 244451

- **Part-time available
  - Deferrable

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.

- **Assumed knowledge:** None
- **Adjustment factors:** None
- **Guaranteed entry selection rank:** 70.00
- **Prerequisites:** None
- **TAFElink:** CanTV or NA

- **Career opportunities:** Your degree could open up a range of employment opportunities, including:
  - construction materials technician
  - graduate consultant
  - laboratory assistant
  - graduate process improver.

Potential employers include:
- Agilent Technologies
- Defence Science & Technology Group
- Safe Environments Pty Ltd
- CSIRO
- Department of Industry, Innovation and Science
- Agilent Technologies.

- **SATAC code:** 214811
- **3 years full-time
  - Part-time available

- **SATAC code:** 244451

- **Career opportunities:** Your degree could open up a range of employment opportunities, including:
  - construction materials technician
  - graduate consultant
  - laboratory assistant
  - graduate process improver.

Potential employers include:
- Lockheed Martin
- Smart Automation Systems
- Monadelphous
- Simavita
- Rocket Lab.
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.

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

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 Engineering (Software) (Honours)

You can choose topics in other disciplines that use applied mathematics, and your studies will focus on both pure and applied mathematics, and statistics. You can choose topics in other disciplines that use applied mathematics, such as medicine, business, physics and the environment. You will develop advanced research, communication and technical skills. Focus on advanced pure and applied mathematics in our Mathematical Sciences Laboratory.

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For more information visit: flinders.edu.au/computer-science-information-technology

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

Part-time available

4 years full-time

Dip or above

80.00

SATAC code (Tonsley)

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

Your studies could open up a range of employment opportunities, including:

- defence research scientist/engineer
- electronic engineer
- electronic security specialist
- information analyst
- physician
- telecommunications engineer.

Potential employers include:
- BAE Systems Australia
- Unique
- Australian National Audit Office
- Lockheed Martin.

Potential employers include:
- Department of Defence and other arms of government
- defence industry
- computer and telecommunications industry
- information research and advisory organisations
- cyber-security firms.

Note that some options within the award, such as project and practicum placement within defence organisations, may be subject to security clearance. For this reason, this award is not available to international students.

Scholarships available

Flinders University in collaboration with Defence Science and Technology and the Australian Defence Force is excited to offer scholarships for high-performing Australian CSC students who enrol in the combined Bachelor of Engineering Technology (Electronic Systems and Security)/Bachelor of Science (Physics). Apply to SATAC now.

Part-time available

4 years full-time

Dip or above

80.00

SATAC code (Tonsley)

Prerequisites

Yes*

Assumed knowledge

None

2023 selection rank

70.00

Guaranteed entry selection rank

75.00

TAFE/VR

Dip or above

Adjustment factors

Yes

* SACE stage one mathematics or stage two general mathematics or equivalent.

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

Unique in Australia for making graduates future-ready and prepared to tackle the most challenging security problems facing Australia. Obtain two degrees in four years of full-time study. Generous scholarships are available for high-achieving students. Includes placements in projects in collaboration with the government and defence industry and with applicability well beyond defence. Unique in Australia for making graduates future-ready and prepared to tackle the most challenging security problems facing Australia.

Career opportunities

Your degree could open up a range of employment opportunities, including:

- defence research scientist/engineer
- electronic engineer
- electronic security specialist
- information analyst
- physician
- telecommunications engineer.

Potential employers include:
- Department of Defence and other arms of government
- defence industry
- computer and telecommunications industry
- information research and advisory organisations
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Part-time available

4 years full-time

Dip or above

80.00

SATAC code (Tonsley)

Prerequisites

Yes*

Assumed knowledge

None

2023 selection rank

70.00

Guaranteed entry selection rank

75.00

TAFE/VR

Dip or above

Adjustment factors

Yes

* SACE stage one mathematics or stage two general mathematics or equivalent.

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

Unique in Australia for making graduates future-ready and prepared to tackle the most challenging security problems facing Australia. Obtain two degrees in four years of full-time study. Generous scholarships are available for high-achieving students. Includes placements in projects in collaboration with the government and defence industry and with applicability well beyond defence. Unique in Australia for making graduates future-ready and prepared to tackle the most challenging security problems facing Australia.

Career opportunities

Your degree could open up a range of employment opportunities, including:

- defence research scientist/engineer
- electronic engineer
- electronic security specialist
- information analyst
- physician
- telecommunications engineer.

Potential employers include:
- Department of Defence and other arms of government
- defence industry
- computer and telecommunications industry
- information research and advisory organisations
- cyber-security firms.

Note that some options within the award, such as project and practicum placement within defence organisations, may be subject to security clearance. For this reason, this award is not available to international students.

Scholarships available

Flinders University in collaboration with Defence Science and Technology and the Australian Defence Force is excited to offer scholarships for high-performing Australian CSC students who enrol in the combined Bachelor of Engineering Technology (Electronic Systems and Security)/Bachelor of Science (Physics). Apply to SATAC now.
Flinders at Tonsley

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.

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 twenty-first century and beyond.

The Flinders solar car program has been running since 2016 and provides a global experience for Flinders students. They get to work closely with industry and leading academics in this field, and are involved as a cross-functional group to develop various aspects of the program from design, mechanical and electrical development through to biomedical support systems, software and on-board IT systems.

The program has so far seen four Flinders Automotive Solar Car Teams (FAST) complete the World Solar Challenge as part of their studies, learning and refining new skills that underpin, enhance and grow their academic learnings to produce job-ready graduates.

Read how Flinders students are leading the way in our solar car design.

“The world is set to convert 80 per cent of its power via Power Electronics by 2030. Being involved in projects such as FAST will give you, at the very least, an appreciation for energy harvesting, conversion, storage and utilisation that will no doubt be useful in the industry.”

Corbus Hoffman
Design Engineer, REDARC

Flinders Automotive Solar Car Teams program (FAST)

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Corbus Hoffman
Design Engineer, REDARC
Combined degrees can enhance your job prospects

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 combinations:

**Bachelor of Engineering (Environmental) (Honours)/Bachelor of Science (Environmental Science)**

SATAC code (Tonsley) 244401

With the problems faced by the environment becoming more critical, environmental scientists and engineers are in very high demand. Flinders University offers a unique double degree that combines environmental engineering with environmental science. You’ll graduate with two separate degrees, greater career prospects and a competitive edge in the job market.

**Bachelor of Medical Science/Bachelor of Engineering (Biomedical) (Honours)**

SATAC code (Bedford Park) 214421

Broaden your career opportunities by combining specialised medical science studies in areas such as biochemistry, biotechnology, microbiology, molecular biology, neuroscience and more, with the skills to investigate, plan, design, manufacture and maintain systems and equipment that are used in all aspects of health care.

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

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**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
- 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) – Flexible Entry**

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.

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<td>Guaranteed entry rank</td>
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<td>TAFE link</td>
<td>Dip or above</td>
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<td>Adjustment factors</td>
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* Years 1 and 2 undertaken at Festival Plaza, years 3 and 4 undertaken at Tonsley.
** SACE stage two general mathematics or equivalent.
*** Knowledge of SACE stage two physics or equivalent is assumed.

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 only receive 36 units of credit but may not be able to complete in minimum time due to prerequisite sequences.

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**Bachelor of Engineering (Honours) – General Entry**

A feeder to engineering for those with less mathematics, Flinders’ general entry pathway to the Bachelor of Engineering (Honours) provides guaranteed entry for students who have passed SACE stage two general mathematics or SACE stage one 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.

<table>
<thead>
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<td>Dip or above</td>
</tr>
<tr>
<td>Adjustment factors</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* SACE stage two general mathematics or equivalent.

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).

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.

---

**Bachelor of Engineering Science**

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.

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.

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.

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.

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**Engineering 2024 - Page 19**
Starting at Flinders

One of the world’s top universities, Flinders offers students a supportive, inclusive education in an unrivalled study environment.

Flinders is ranked in the top 2% of universities in the world*

* The World University Rankings 2023 as a percentage of the total number of universities in the world according to the International Association of Universities.

Flinders’ Adelaide campuses include the Bedford Park campus, featuring an award-winning hub and plaza, with retail, food outlets and a state-of-the-art sport and fitness centre.

Flinders at Tonsley houses state-of-the-art facilities and close links to industry. In 2024, our Victoria Square CBD campus will move to the stunning new Flinders at Festival Tower on North Terrace, right beside the Adelaide Railway Station.

Take a virtual tour of Flinders University and explore our amazing locations. It’s the next best thing to being here! Flinders.edu.au/vr

Flinders at Festival Plaza – opening 2024
Flinders University students want flexibility, convenience and connectivity. That’s why we’re taking our presence in the Adelaide CBD to a whole new level. As an anchor tenant in the new Festival Plaza development on North Terrace, Flinders will offer new courses and new career pathways in a new city campus.

Bedford Park
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.

Tonsley
Flinders at Tonsley is a place where our students interact with business, and where business interacts with our researchers in areas such as engineering, medical devices and nanoscale technologies.
Getting to Flinders

Transport options
The Flinders Railway Line gets you from the CBD to Tonsley in a super-fast 20 minutes, or to Bedford Park in just 22 minutes. And with free Campus Connector and Tonsley Link bus services running 7am – 6pm Monday to Friday, getting to and from your studies is simple. You’ll be able to schedule your day without worrying about missing a single lecture!

flinders.edu.au/loop-bus
Plan your trip to Flinders:
adelaidemetro.com.au/routes/flndrs

The Flinders railway line is now open
The new Flinders train line has made travel easier and more convenient than ever, linking Bedford Park to our Tonsley campus and the Adelaide city centre, now just 22 minutes away.

A new link from the north
Opened in June 2022, the electrified Gawler Rail Line provides services from the northern suburbs to the CBD, with express services expected to take around 48 minutes from Gawler to the CBD.

Plan your trip to Flinders CBD:
adelaidemetro.com.au/routes/gawc

The new Flinders train line has made travel easier and more convenient than ever, linking Bedford Park to our Tonsley campus and the Adelaide city centre, now just 22 minutes away.

Gawler to Festival Plaza in 48 minutes

Flinders Station

Festival Plaza Opening in 2024

Gawler Central

Smithfield Interchange

Munno Para

Salisbury

Parffield

Mawson Interchange

Islington

Dry Creek

Adelaide Central Train Station

Flinders Central Train Station

Flinders Station Plaza

Festival Plaza Opening in 2024

Victoria Square

Westfield Marion

Flinders Medical Centre

Bedford Park

Engineering 2024 - Page 22

Engineering 2024 - Page 23
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. Flinders’ combined degrees allow you to undertake in-depth study in exciting combinations that aren’t usually available in single degrees.

Combined degrees

- Bachelor of Criminology with Accounting, International Relations & Political Science, Information Technology (Network and Cybersecurity Systems), Laws - Legal Practice Entry, Psychological Science, Science (Forensic and Analytical Science)
- Bachelor of Business with Accounting, Arts, Criminology, International Relations & Political Science, Information Technology, Science (Forensic and Analytical Science)
- Bachelor of Medical Science with Engineering (Biomedical) (Honours)
- Bachelor of Psychological Science with Criminology
- Bachelor of Business Economics
- Bachelor of Creative Industries (Digital Media, Film and Television, Interactive Design, Theatre and Performance, Writing and Publishing, Festivals and Arts Production)
- Bachelor of Disability and Community Inclusion
- Bachelor of Disability and Developmental Education
- Bachelor of Engineering Science
- Bachelor of Information Technology
- Bachelor of International Relations and Political Science
- Bachelor of Laws - Legal Practice Entry
- Bachelor of Laws (Honours) - Legal Practice Entry
- Bachelor of Science

Flinders diplomas
Flinders’ diploma-level qualifications give you the chance to experience university life without having to commit to long-term study. The one-year Diploma in Business, Diploma in Sports Management, Diploma in Laws, or Diploma in Arts give you the chance to explore a range of interests, and successful completion allows you to apply for up to one year of credit towards a range of bachelor degrees, and guaranteed entry to the following courses:
- Bachelor of Archaeology
- Bachelor of Arts
- Bachelor of Business
- Bachelor of Business Economics
- Bachelor of Creative Industries (Digital Media, Film and Television, Interactive Design, Theatre and Performance, Writing and Publishing, Festivals and Arts Production)
- Bachelor of Disability and Community Inclusion
- Bachelor of Disability and Developmental Education
- Bachelor of Engineering Science
- Bachelor of Information Technology
- Bachelor of International Relations and Political Science
- Bachelor of Laws - Legal Practice Entry
- Bachelor of Laws (Honours) - Legal Practice Entry
- Bachelor of Science

Flinders diplomas

- Bachelor of Business Economics
- Bachelor of Creative Industries (Digital Media, Film and Television, Interactive Design, Theatre and Performance, Writing and Publishing, Festivals and Arts Production)
- Bachelor of Disability and Community Inclusion
- Bachelor of Disability and Developmental Education
- Bachelor of Engineering Science
- Bachelor of Information Technology
- Bachelor of International Relations and Political Science
- Bachelor of Laws - Legal Practice Entry
- Bachelor of Laws (Honours) - Legal Practice Entry
- Bachelor of Science

Flinders diplomas

- Bachelor of Science (Forensic and Analytical Science) with Archaeology
- Bachelor of Criminology

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.

Flinders link
If you’re in Year 12, uniTEST is available to enhance your chances of getting into Flinders. We will select students based on their Year 12 results (60% weighting toward the ATAR selection rank) and uniTEST results (40%). Flinders will also consider applicants based on their uniTEST results (100%) as a standalone entry score (subject to SACE completion and any course prerequisites or specific admissions requirements). If you take the test and don’t do well, we will only consider your highest selection rank.

uniTEST

Flinders link
If you haven’t achieved the results you expected

If you haven’t achieved the results you expected in Year 12, there are a number of pathways to your preferred degree. You can start studying one course and move to another via internal transfer or FlindersLink.

uniTEST

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.

Research Project B Pathway

School Recommendation Program
We may consider your school’s recommendation about your academic performance as part of your admission into Flinders.
Pathways to study

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) enables people aged 18 years and over to apply to study at Flinders. Applications are made via SATAC.

Alternatively, you may wish to consider an undergraduate certificate or diploma. These shorter courses allow you the opportunity to explore your interests and to progress to further study. Certificate courses are Commonwealth supported.

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).

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

TAFE SA Dual Offers
Flinders University together with TAFE SA offer dual offer pathways in various disciplines.

Work Integrated Learning
When it comes to landing a job, practical placements can give you the edge you need to succeed. Flinders’ Work Integrated Learning (WIL) will improve your employability by helping you better understand the day-to-day skills employers are looking for, and by giving you the chance to gain real experience in a workplace environment directly related to the course you’re studying. You might take on a work placement or internship, gain hands-on experience through field education, or get involved in projects with industry or community organisations. Your WIL experience will be designed to help you gain that edge.

Flinders.edu.au/WIL

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.

Library.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, and the student publication Empire Times, and helps with academic, administrative and welfare issues.

FUSA.edu.au

Health, Counselling & 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

Horizon Award
The Flinders Horizon Award program sits alongside your academic studies; it is an innovative program that provides further opportunities to develop your professional skills and gain new experiences and insights that will benefit you now and in your future career.

Flinders.edu.au/horizon

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

Yungkurrinthi Student Engagement
Yungkurrinthi Student Engagement is committed to increasing Aboriginal and Torres Strait Islander student access, participation, retention and success at Flinders University. Providing a range of services and supports for Aboriginal and Torres Strait Islander students, our team of highly qualified staff is dedicated to supporting you throughout your student journey.

Flinders.edu.au/study/indigenous-students

Flinders.edu.au/pathways

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Flinders.edu.au/study/indigenous-students

Flinders.edu.au/pathways
**Indigenous Admission Scheme**

The Indigenous Admission Scheme provides an alternative pathway for Aboriginal and Torres Strait Islander people, who may not have been able to gain entry to university by traditional means, with the opportunity to study at Flinders.

**Are you eligible?**

To be eligible for the Indigenous Admission Scheme you must be an Aboriginal or Torres Strait Islander person in accordance with the Commonwealth definition, which requires you to:

- be of Aboriginal or Torres Strait Islander descent, and
- identify as an Aboriginal or Torres Strait Islander, and
- be accepted as an Aboriginal or Torres Strait Islander in the community in which you live or have lived.

You may be currently studying Year 12 or be a non-school leaver.

**How to apply**

1. Apply for the course you want to study through the South Australian Tertiary Admissions Centre (SATAC). You will get an application number from SATAC that you will need for your Indigenous Admission Scheme application form.
2. Complete the Indigenous Admission Scheme application form online (flinders.edu.au/indigenousadmissions). If you are having trouble completing an online application, you can request a paper-based application via ias@flinders.edu.au or call us on 08 8201 3033.
3. An interview is part of the application process, but you will be notified about this.

**Application and interview dates**

First round applications close late November and second round applications close early January for semester 1. For our midyear intake to a number of courses, applications close in June.

flinders.edu.au/indigenousadmissions

**“I originally chose Flinders as they have one of the best facilities for future teachers and fantastic student engagement. Studying at Flinders has been a wonderful experience that has given me the opportunity to discover what I truly want to do in the future while also providing me with support in every way imaginable. Flinders and Yungkurrinthi have given me the opportunity to meet others with similar ambitions and goals as myself and find the benefit of an education in places I would never have thought to look. As a proud Indigenous woman, I want to use my degree to work in First Nation communities to help our young people make it through their high schooling experience and onto their own future aspirations.”**

*Emilee Pyrke*

Bachelor of Arts, Conditional entry to Master of Teaching (Secondary)

**Study abroad/scholarships**

Over 450 scholarships worth $2.4 million in total – ranging from $1,000 to $20,000.

**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. Our global study programs are designed to allow students to take their Flinders study overseas and earn academic credit toward their Flinders program. With 70+ overseas partner universities, why wait until you graduate to see the world?

flinders.edu.au/learn-without-borders

**Explore Flinders scholarships**

Flinders offers a generous range of scholarships for students in undergraduate courses. With over 450 available scholarships, including scholarships to students from low socio-economic backgrounds, students from rural and regional areas, and Aboriginal and Torres Strait Islander students, you may be eligible for support that will help you achieve your goals at university.

flinders.edu.au/scholarships

**“I always knew I wanted to study overseas at some stage during my degree. A semester exchange gave me the chance to complete topics that weren’t available in my home university and experience life in a city that is very different to my own. Having completed a semester overseas, I now have an edge over the countless other students that are completing the same degree as me and have formed memories that will always stay with me.”**

*Annelise Smith*

Bachelor of Business (Advanced Leadership)

Wynndham Richardson Scholarship Fund recipient

**“The Wynndham 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

Wynndham Richardson Scholarship Fund recipient
How to 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
• Consider pathways to your degree

Visit us
• Attend 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 satac.edu.au
• Apply for scholarships at flinders.edu.au/scholarships
• Lodge separate Indigenous Admission Scheme (if applicable) at flinders.edu.au/indigenousadmissions

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

When can I start?

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.

Key dates
Flinders Open Days: Friday 11 August, Saturday 12 August 2023
Semester 12024 start date: 26 February 2024
Semester 1 Orientation week: 19 February 2024
Semester 2 2024 start date: 22 July 2024
Semester 2 Orientation week: 29 July 2024

Fees and charges
Your course fees – Commonwealth support
All our courses list indicative fees, but as an undergraduate student your course is Commonwealth supported provided you’re an eligible Australian citizen, New Zealand citizen or permanent resident.
Your course being Commonwealth supported means that your course fees are shared between the Australian government and you – with your portion being the student contribution amount.

HECS-HELP loan
You won’t have to pay your fees up-front if you’re an Australian citizen or holder of a permanent humanitarian visa. You can get a HECS-HELP loan for your student contribution portion of your uni fees. Find out more about costs to plan for while you’re at uni at flinders.edu.au/fees

Glossary

Flinders offers two admissions cycles each year for undergraduate degrees.

There are many terms used within a university that may be unfamiliar or confusing. Below are a few terms that may need explanation.

Admission pathway
Any one of the options available to a prospective higher education student that will enable them to meet the entry requirements of their chosen courses.

ATAR
The Australian Tertiary Admission Rank (ATAR) is a ranking from 30 (lowest) to 99.95 (highest) agreed by COAG as a nationally equivalent measure of a person’s relative academic ranking within their complete age cohort in the year they graduated from senior secondary school.

Adjustment factors
Often referred to as ‘bonus points’, these are additional points that may be used in combination with an applicant’s university aggregate to derive their course selection rank.

Defer
Delaying the start of a course of study by one year (commencing students only). If you have already enrolled, then you need to withdraw from topics before you can defer.

Not all courses are deferrable. Please visit flinders.edu.au/defer for details.

Guaranteed entry selection rank
Achieve a selection rank equal to or above the published guaranteed entry selection rank and you’ll be guaranteed a place at Flinders.

Major
A sequence of topics required to be taken as defined in your course rule, normally across all years of a course.

Minor
A sequence of topics required to be taken as defined in your course rule, generally as part of a major.

Offer round/s
Refers to the series of dates on which offers of higher education places are issued to applicants throughout the year, whether through a tertiary admission centre or directly by a higher education provider.

Selection rank
The ranking that tertiary admission centres and most universities actually use to assess admission to a course. A person’s course selection rank can include their ATAR, any adjustments they are eligible for, such as equity or subject adjustments, other contributions calculated on the basis of work experience or previous non-secondary study, portfolio assessments, results of the Special Tertiary Admissions Test, other supplementary tests, etc.

Listing your SATAC preferences
You may enter up to six course preferences that you would like to study. You should list these in the order in which you’d like to study them, with the one you would like most listed first. If you cannot be offered a place in your first preference, you will then be considered for your second preference and so on. It is also important to consider a backup plan. Ensure you include our recommended pathway courses in your preferences.

Notes

Engineering

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

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

Every effort has been made to ensure the information in this brochure is accurate at the time of publication: July 2023. Flinders University reserves the right to alter any course or topic contained herein without prior notice. Alterations are reflected in the course information available on the University’s website. CRICOS No. 00114A