

2024



Engineering, Defence, Computer Science & Information Technology

Engineering		Starting at Flinders	
Design & Technology	5	Location & map	22
Biomedical Engineering	5	Combined degrees	24
Civil Engineering	6	Flinders diplomas	24
Electrical and Electronic Engineering	7	Pathways to study	26
Engineering Management	8	Student support	27
Engineering Technology (Advanced Manufacturing & Digital Design)	9	Indigenous Admission Scheme	28
Environmental Engineering	10	Overseas studies & scholarships	29
Maritime Engineering	10	How to apply	30
Mechanical Engineering	11	Key dates	30
Robotics Engineering	12	Fees & charges	30
Engineering Science	13	Glossary	31
Software Engineering	14	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	
Engineering Technology (Systems & Security)	14		
Mathematical Sciences	15		
Surveying	16		
Engineering pathways	18		



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, Kurna, Larrakia, Ngadjuri, Ngarrindjeri, Ramindjeri, Warumungu, Wardaman and Yolngu people. We honour their Elders past, present and emerging.

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

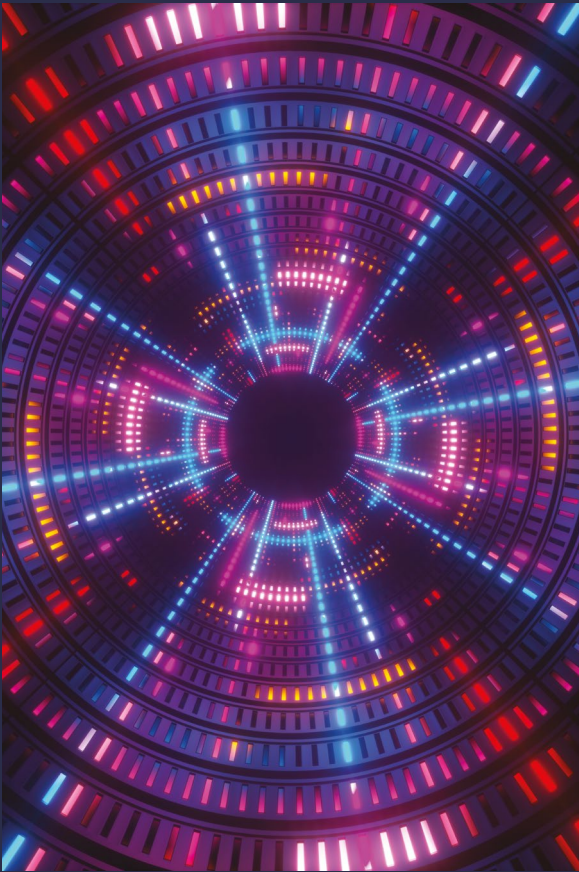
Engineers are in high demand worldwide. Demand for electrical engineers is increasing. The world of robotics is changing rapidly, and large-scale civil engineering projects are being conducted in many areas. From robotics to renewable energy, shipbuilding and defence, civil engineering or creating new 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 entrepreneurship at Tonsley, studying alongside some of Adelaide's biggest businesses and globally recognised organisations such as SAGE, Siemens, SIMEC ZEN Energy, Tesla, Micro-X and Rockwell Automation. Graduate career-ready and ready to take on the world.

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.



No. 1 in Australia in Engineering for learning resources*

* The Good Universities Guide 2020 (undergraduate)

SA's longest engineering placement**

** Public SA-founded universities only

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.

SATAC code (Tonsley)	244591	3 years full-time
Prerequisites	None	Part-time available
Assumed knowledge	None	Deferrable
2023 selection rank	70.00	
Guaranteed entry selection rank	75.00	
TAFElink	Cert IV or above	
Adjustment factors	Yes	

- 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
- Clipsal
- 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.

SATAC code (Tonsley)	224781	4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		

- You'll study unique topics such as rehabilitation and assistive technology.
- Flinders' biomedical and materials engineering research is world class, and graduates have won Monash Scholarships, Fulbright Scholarships, Churchill Fellowships and Menzies Scholarships.
- Choose a specialisation in mechanics-based or 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.

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.

SATAC code (Tonsley)	224861	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	95.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		

- You'll study unique topics such as rehabilitation and assistive technology.
- Flinders biomedical and materials engineering research is world class, and graduates have won Monash Scholarships, Fulbright Scholarships, Churchill Fellowships and Menzies Scholarships.
- Choose a specialisation in mechanics-based or 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.

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.

SATAC code (Tonsley)	224791	4 years full-time
SATAC code (Festival Plaza)*	284281	Part-time available
Prerequisites	Yes*	Deferrable
Assumed knowledge	Yes**	
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		
* Years 1 and 2 undertaken at Festival Plaza, years 3 and 4 undertaken at Tonsley.		

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

Career opportunities

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

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

Potential employers include:

- Arup
- Lendlease
- Australian Rail Track Corporation
- City of Marion Council.

Bachelor of Engineering (Electrical and Electronic) (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.

SATAC code (Tonsley)	244431	4 years full-time
SATAC code (Festival Plaza)*	284291	Part-time available
Prerequisites	Yes*	Deferrable
Assumed knowledge	Yes**	
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		
* Years 1 and 2 undertaken at Festival Plaza, years 3 and 4 undertaken at Tonsley.		

- From 2024 this course includes an optional nuclear engineering major.
- 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 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

This is a broad major that focuses on all aspects of civil engineering covering structural engineering, transport systems, geotechnical engineering and water engineering in depth.

Environmental engineering

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

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 electromagnetic security.

Nuclear Engineering

This major is delivered in partnership with the University of Rhode Island in the United States. It provides an opportunity for global exchange in the US and gives training on a nuclear reactor and nuclear topics of relevance to industry and the nuclear-powered submarine program.

Bachelor of Engineering (Electrical and Electronic) (Honours)/Master of Engineering (Mechanical)

Many companies want engineers that combine the skills of electrical and electronic engineers with those of mechanical engineers.

SATAC code (Tonsley)	244571	5.5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	95.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	

- This degree combination is unique in South Australia.
- Our nationally recognised integrated work placement gives you practical industry experience.
- 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:

- graduate mechanical, electronic or electrical engineer
- graduate project engineer (mechanical and/or electrical and electronic)
- process development engineer/scientist

Potential employers include:

- design consultancies
- construction companies
- defence industry
- government and universities.

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.

SATAC code (Tonsley)	244741	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	90.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	

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.

SATAC code (Tonsley)	244751	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	90.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	

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.

SATAC code (Tonsley)	244761	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	90.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	

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

SATAC code (Tonsley)	244561	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	90.00	
Guaranteed entry selection rank	95.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent. ** Knowledge of SACE stage two physics 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.

SATAC code (Tonsley)	244621	3 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	70.00	
Guaranteed entry selection rank	75.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* 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 Technology (Systems and Security)

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.

SATAC code (Tonsley)	244701	3 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	NA	
Guaranteed entry selection rank	NA	
TAFElink	Dip or above	
Adjustment factors	Yes	
* 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 (Systems and Security)/Bachelor of Science (Physics)

This four-year combined degree represents a unique and exciting pathway to work in a cutting-edge, high-technology area.

SATAC code (Tonsley)	244711	4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	NA	
Guaranteed entry selection rank	NA	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage one mathematics or stage two general mathematics or equivalent. ** Knowledge of SACE stage two physics and mathematical methods or equivalent is assumed.		

Bachelor of Engineering (Environmental) (Honours)

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.

SATAC code (Tonsley)	244401	4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		

- Integrates with Flinders’ world-class research in environmental science and engineering.
- Our nationally recognised integrated work placement gives you practical industry experience.
- You will develop both the practical skills and theoretical knowledge needed to design and build engineering solutions to environmental problems.
- 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:

- water supply and wastewater treatment engineer
- environmental health engineer
- air pollution management engineer
- environmental impact assessor.

Potential employers include:

- building and construction companies
- government and universities
- manufacturing industry
- mining and resources industry.

Bachelor of Engineering (Maritime) (Honours)

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.

SATAC code (Tonsley)	234591	4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		
A typical third year and Honours year requires you to transfer to the Australian Maritime College in Launceston.		

- You can specialise in naval architecture, ocean engineering, or marine and offshore systems.
- You'll have access to state-of-the art experimental facilities at Flinders University and the Australian Maritime College in Launceston.
- Learn how to enable better exploration of our ocean environment without putting humans at risk. This degree is developed to serve the needs of the maritime engineering design, construction and related industries.
- Career opportunities are available in Australia, Europe, USA, UK and Asia. Complete a professional work placement with a maritime engineering company as part of your studies.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.
- This course is also recognised by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology.

Career opportunities

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

- marine engineer
- maritime systems engineer
- naval architect
- ocean engineer
- pipeline engineer (subsea).

Potential employers include:

- BAE Systems (Australia)
- Naval Group (Australia)
- Department of Defence
- Australian Defence Force
- Raytheon Australia.

Bachelor of Engineering (Mechanical) (Honours)

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.

SATAC code (Tonsley)	224831	4 years full-time
SATAC code (Festival Plaza)*	284321	Part-time available
Prerequisites	Yes*	Deferrable
Assumed knowledge	Yes**	
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		
* Years 1 and 2 undertaken at Festival Plaza, years 3 and 4 undertaken at Tonsley.		

- From 2024 this course includes an optional nuclear engineering major.
- You'll have access to purpose-built, state-of-the-art teaching and laboratory facilities and heavy engineering pods at Tonsley.
- You'll experience personalised teaching and great staff-student working relationships across your studies.
- You can put your mechanical engineering skills to the test in a range of national competitions like the Solar Car Challenge and Weir Warman Design Competition.
- Become involved in Formula SAE, UAV and Mini Maker Faire.
- Undertake a 20-week industry placement program of structured work experience with a local, national or international organisation.
- There are opportunities to take your studies overseas with a student exchange program.
- This degree is fully accredited by Engineers Australia at the level of professional engineer and recognised internationally under the Washington Accord.

Career opportunities

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

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

Potential employers include:

- BAE Systems
- Carl Zeiss
- Air Change Australia
- Woodside Energy
- Airlservices Australia.

Majors – 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.

Mechanical engineering

This major provides a broad focus on all aspects of mechanical engineering, with topics including solid mechanics, mechanics of machines, fluid mechanics and thermodynamics, mechanical design, control systems, manufacturing and mechanics of materials.

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 hydrostatics. Students taking this major can transfer to the University of Tasmania at the end of year two to complete a specialised maritime engineering degree.

Nuclear engineering

This major is delivered in partnership with the University of Rhode Island in the United States. It provides an opportunity for global exchange in the US and gives training on a nuclear reactor and nuclear topics of relevance to industry and the nuclear-powered submarine program.

Defence and Naval Shipbuilding

With around 15,000 skilled and professional jobs expected to be created as part of defence and shipbuilding nationally, Flinders has partnered with key government stakeholders and defence industry primes to ensure our graduates are ready to seize emerging defence careers.

Graduates in a range of courses across engineering, computing and cybersecurity are in high demand and have career opportunities in defence and shipbuilding including the Bachelor of Engineering (Honours) - Mechanical, Electrical and Electronic, Robotics, Software and Maritime, Bachelor of Engineering Technology (Systems and Security), Bachelor of Information Technology (Networks and Cybersecurity Systems) and the Bachelor of Computer Science (Artificial Intelligence).

Flinders has also established a range of global partnerships and will be delivering nuclear training from January 2024. At the undergraduate level, it has partnered with the University of Rhode Island in the US and students in a range of degrees can do a nuclear engineering major including in BEng(Mechanical)(Hons), BEng (Electrical and Electronic) (Hons), BSc(Chemical Sciences) and BSc (Physics). At the postgraduate level, Flinders will offer a Master of Nuclear Science & Technology with Manchester University as well as a range of shorter courses Graduate Certificate and Graduate Diploma.

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, 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.

SATAC code (Tonsley)	224871	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	95.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		

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

Career opportunities

Your degree 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.

Bachelor of Engineering (Robotics) (Honours)

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

SATAC code (Tonsley)	224841	4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		

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

Career opportunities

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

- industrial engineer
- instrumentation engineer
- manufacturing engineer
- mechatronics specialist
- process and automation engineer scientist.

Potential employers include:

- Lockheed Martin
- Smart Automation Systems
- Monadelphous
- Simavita
- Rocket Lab
- Airservices Australia.

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.

SATAC code (Tonsley)	244451	5 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	Yes**	Deferrable
2023 selection rank	95.00	
Guaranteed entry selection rank	95.00	
TAFElink	NA	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		
** Knowledge of SACE stage two physics or equivalent is assumed.		

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

Career opportunities

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

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

Potential employers include:

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

Bachelor of Engineering Science

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 (Tonsley)	214811	3 years full-time
SATAC code (Festival Plaza)	284341	Part-time available
Prerequisites	None	Deferrable
Assumed knowledge	None	
2023 selection rank	60.00	
Guaranteed entry selection rank	70.00	
TAFElink	Cert IV or above	
Adjustment factors	Yes	

- 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 inquiring 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 an engineering project or industry placement.

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:

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

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.

SATAC code (Tonsley)	224851	4 years full-time
SATAC code (Festival Plaza)	284331	Part-time available
Prerequisites	Yes*	Deferrable
Assumed knowledge	Yes**	
2023 selection rank	75.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two general mathematics or equivalent. ** Knowledge of SACE stage two physics or equivalent is assumed.		

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

Career opportunities

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

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

Potential employers include:

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

Bachelor of Engineering Technology (Systems and Security)

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 these in conjunction with studies in signal processing, infrared imaging systems, multi-spectral sensing, satellite communications, computer networks and telecommunications.

SATAC code (Tonsley)	244701	3 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	None	Deferrable
2023 selection rank	70.00	
Guaranteed entry selection rank	75.00	
TAFElink	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.
- Generous scholarships available for high-achieving students.
- Includes placements and projects in collaboration with the government and defence industry but with applicability well beyond defence.
- Developed in collaboration with the Defence Science and Technology Group within the Department of Defence.

Career opportunities

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

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

Potential employers include:

- Department of Defence and other arms of government
- defence industry
- computer and telecommunications industry
- information research and advisory organisations
- cybersecurity 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.

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

Paired with the Bachelor of Science (Physics), the Bachelor of Engineering Technology (Electronic Systems and Security) has been designed to develop future-ready graduates to help government, industry and academia tackle the most challenging security problems facing Australia.

It encompasses developing the requisite knowledge, skills and real-world experience in the exploitation of the electromagnetic spectrum and provides a pathway to a highly paid and enduring career at the forefront of electronic and electromagnetic technologies.

SATAC code (Tonsley)	244711	4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	None	Deferrable
2023 selection rank	70.00	
Guaranteed entry selection rank	75.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage one mathematics or stage two general mathematics or equivalent. ** Knowledge of SACE stage two physics and mathematical methods 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 and projects in collaboration with the government and defence industry but with applicability well beyond defence.
- Articulates to the Bachelor of Engineering (Electrical and Electronic) (Honours) and the Bachelor of Science (Physics) (Honours).
- Developed in collaboration with the Defence Science and Technology Group within the Department of Defence.

Career opportunities

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

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

Potential employers include:

- Department of Defence and other arms of government
- defence industry
- computer and telecommunications industry
- information research and advisory organisations
- cybersecurity firms.

Scholarships available

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

Bachelor of Mathematical Sciences

Bachelor of Mathematical Sciences (Honours)

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.

SATAC code (Tonsley)	224631	3 years full-time
SATAC code (Honours) (Tonsley)	224641	Honours 4 years full-time
Prerequisites	Yes*	Part-time available
Assumed knowledge	None	Deferrable
2023 selection rank	70.00	
2023 selection rank (Honours)	80.00	
Guaranteed entry selection rank	70.00	
Guaranteed entry selection rank (Honours)	80.00	
TAFElink	Cert IV or above	
TAFElink (Honours)	Dip or above	
Adjustment factors	Yes	
* SACE stage two specialist mathematics or mathematical methods or equivalent.		

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

Career opportunities

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

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

Potential employers include:

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

Bachelor of Geospatial Information Systems/Bachelor of Surveying

If you are interested in a career with no boundaries on the amazing places that it will take you, then surveying is for you. Flinders University offers a four-year double degree combining a Bachelor of Geospatial Information Systems with a Bachelor of Surveying.

SATAC code (Tonsley)	244981	4 years full-time
Prerequisites	None	Part-time available
Assumed knowledge	Yes*	Deferrable
2023 selection rank	N/A	
Guaranteed entry selection rank	75.00	
TAFElink	Cert IV	
Adjustment factors	Yes	
* SACE Stage 2 (Year 12) General Mathematics or the equivalent.		

- Combine a love of being outside with a professional career using high tech instruments, applied science and IT.
- Gain practical experience and develop on-the-job use of a range of relevant digital technologies in our dedicated Spatial Information Systems Laboratory.
- Learn to measure our Earth with satellites, aircraft, drones, total stations and scanners.
- This degree is recognised by the Surveyors Board of South Australia.

Career opportunities

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

- surveyor
- engineering - civil and construction
- spatial information officer
- mining - planning, construction and operation
- environmental - planning & sustainability
- GIS data coordinator.

Potential employers include:

- cadastral surveying companies
- construction companies
- engineering & mining companies
- defence industry
- environmental organisations
- Department of Defence and other arms of government.

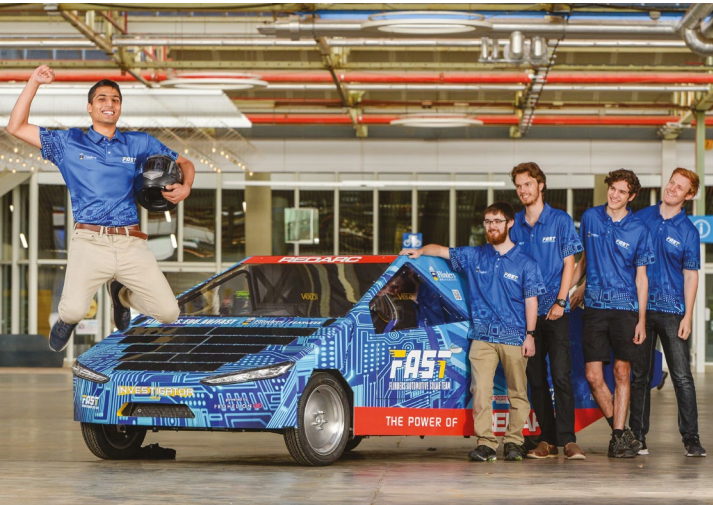
Nuclear Engineering (new in 2024)

With around 15,000 skilled and professional jobs expected to be created as part of defence and shipbuilding nationally, Flinders has partnered with key government stakeholders and defence industry primes to ensure our graduates are ready to seize emerging defence careers.

Graduates in a range of courses across engineering, computing and cybersecurity are in high demand and have career opportunities in defence and shipbuilding. Courses include the Bachelor of Engineering (Honours) - Mechanical, Electrical and Electronic, Robotics, Software and Maritime, Bachelor of Engineering Technology (Systems and Security), Bachelor of Information Technology (Networks and Cybersecurity Systems) and the Bachelor of Computer Science (Artificial Intelligence).

Flinders has also established a range of global partnerships and will be delivering nuclear training from January 2024. At the undergraduate level, it has partnered with the University of Rhode Island in the US and students in a range of degrees can do a nuclear engineering major. This includes the BEng (Mechanical) (Hons), BEng (Electrical and Electronic) (Hons), BSc (Chemical Sciences) and BSc (Physics). At the postgraduate level, Flinders will offer a Master of Nuclear Science & Technology with Manchester University as well as a range of shorter courses such as a graduate certificate and graduate diploma.

By studying engineering at Flinders, you'll have access to purpose-built teaching and laboratory facilities, personalised teaching, and great staff student working relationships.

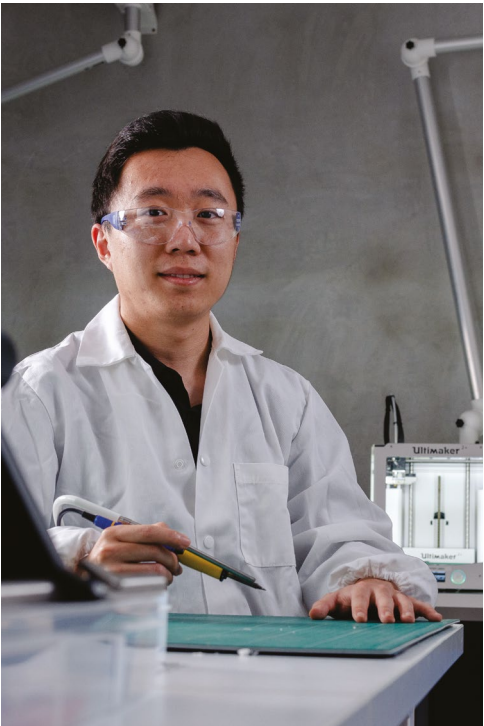


Flinders Automotive Solar Car Teams program (FAST)

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.



Flinders at Tonsley

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



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

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

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

Tonsley is in touch with industry. Study alongside industry leaders and gain valuable career-ready skills.

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 degree options visit flinders.edu.au/combineddegrees

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.

SATAC code (Tonsley)	234931	1 year pathway*
SATAC code (Festival Plaza)*	284301	Part-time available
Prerequisites	Yes*	Deferrable
Assumed knowledge	Yes**	
2023 selection rank	70.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
† After completion of this pathway, you will be ready for second year in your selected engineering degree. * SACE stage two specialist mathematics or mathematical methods or equivalent. ** Knowledge of SACE stage two physics or equivalent is assumed. # Years 1 and 2 undertaken at Festival Plaza, years 3 and 4 undertaken at Tonsley.		

This degree provides a pathway to the following degrees:

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

^ Students who transfer to the Bachelor of Engineering (Biomedical) (Honours) or Bachelor of Engineering (Software) (Honours) will still receive 36 units of credit but may not be able to complete in minimum time due to prerequisite sequences.

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.

SATAC code (Tonsley)	244441	1.5 years full-time
SATAC code (Festival Plaza)*	284311	Part-time available
Prerequisites	Yes*	Deferrable
Assumed knowledge	None	
2023 selection rank	70.00	
Guaranteed entry selection rank	80.00	
TAFElink	Dip or above	
Adjustment factors	Yes	
* SACE stage two general mathematics or equivalent. # Years 1 and 2 undertaken at Festival Plaza, years 3 and 4 undertaken at Tonsley.		

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.

SATAC code (Tonsley)	214811	3 years full-time
SATAC code (Festival Plaza)*	284341	Part-time available
Prerequisites	None	Deferrable
Assumed knowledge	None	
2023 selection rank	60.00	
Guaranteed entry selection rank	70.00	
TAFElink	Cert IV or above	
Adjustment factors	Yes	
# Years 1 and 2 undertaken at Festival Plaza, year 3 undertaken at Tonsley.		

This degree provides a pathway to the following degrees:

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

More information on the Bachelor of Engineering Science can be found on page 13. Find out more flinders.edu.au/engineeringpathways

Starting at Flinders

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

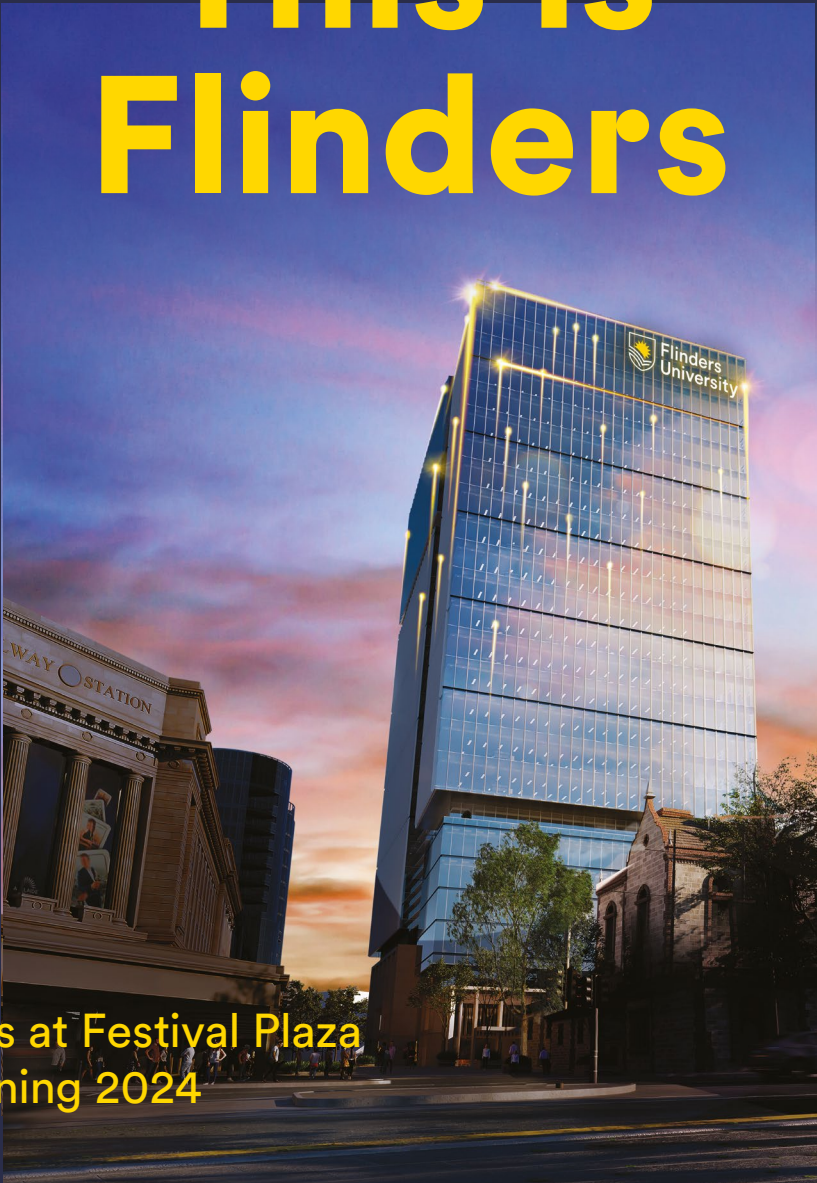


Flinders is ranked in the top 2% of universities in the world*

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



This is Flinders



**Flinders at Festival Plaza
— opening 2024**

Flinders’ Adelaide campuses include our main Bedford Park campus and Flinders at Tonsley, which features close links to industry. Our newest campus is the stunning Flinders at Festival Plaza on North Terrace, right beside the Adelaide Railway Station. Take a virtual tour of Flinders University and explore our amazing locations.

Flinders at Festival Plaza
Flinders University’s cutting edge, vertical campus offers a new way of learning in the heart of the city. Flinders at Festival Plaza has been designed for flexibility, collaboration and immersion. Here, students will gain the knowledge and practical skills they need to confidently step into their careers. Spanning eight levels, with multiple state-of-the-art teaching spaces, Flinders’ new city campus is designed for innovative and adaptable learning, catering to an extensive range of study programs. Every floor has dedicated spaces for students to come together, learn from industry experts and be inspired by a world of learning possibilities.

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.

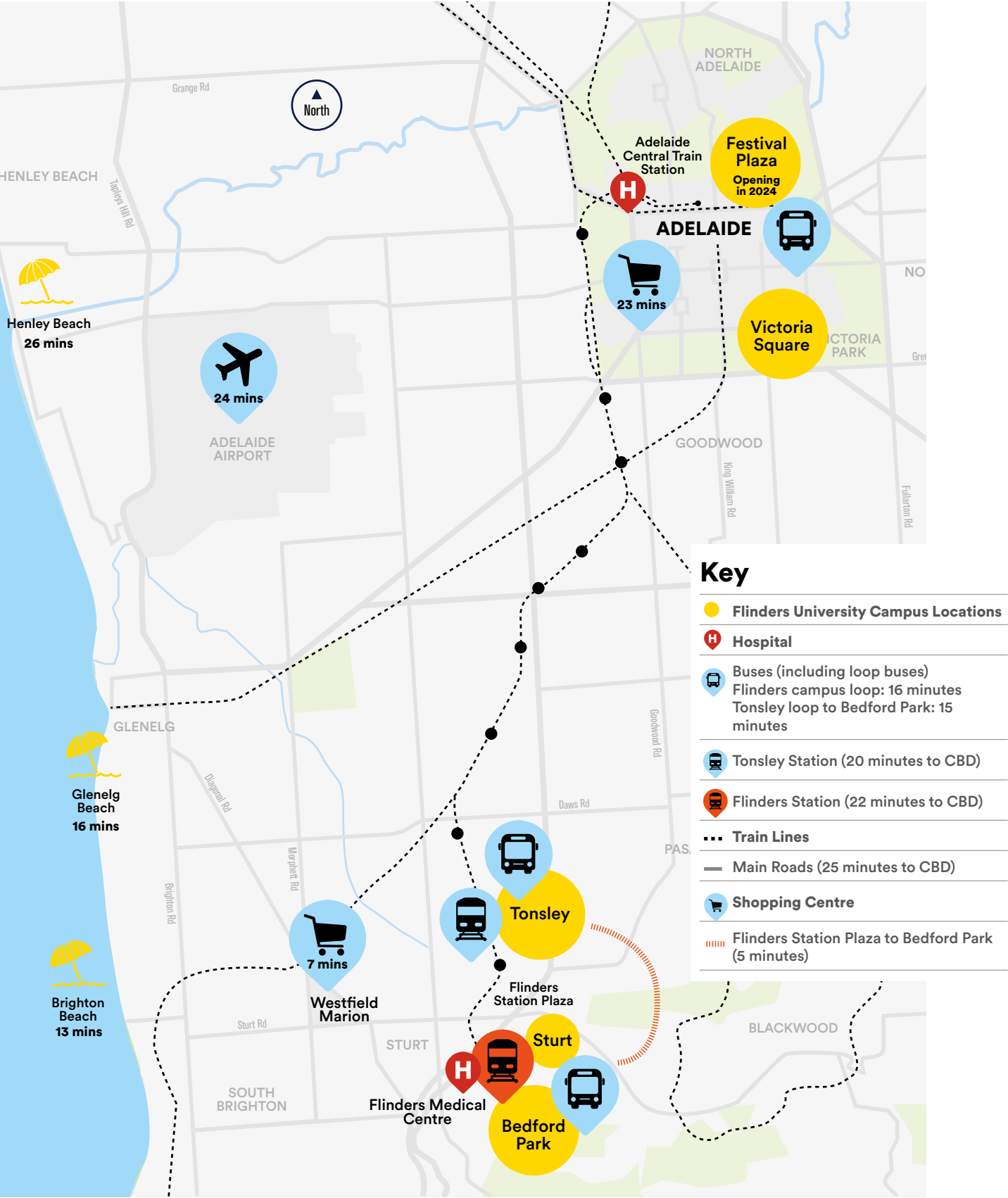
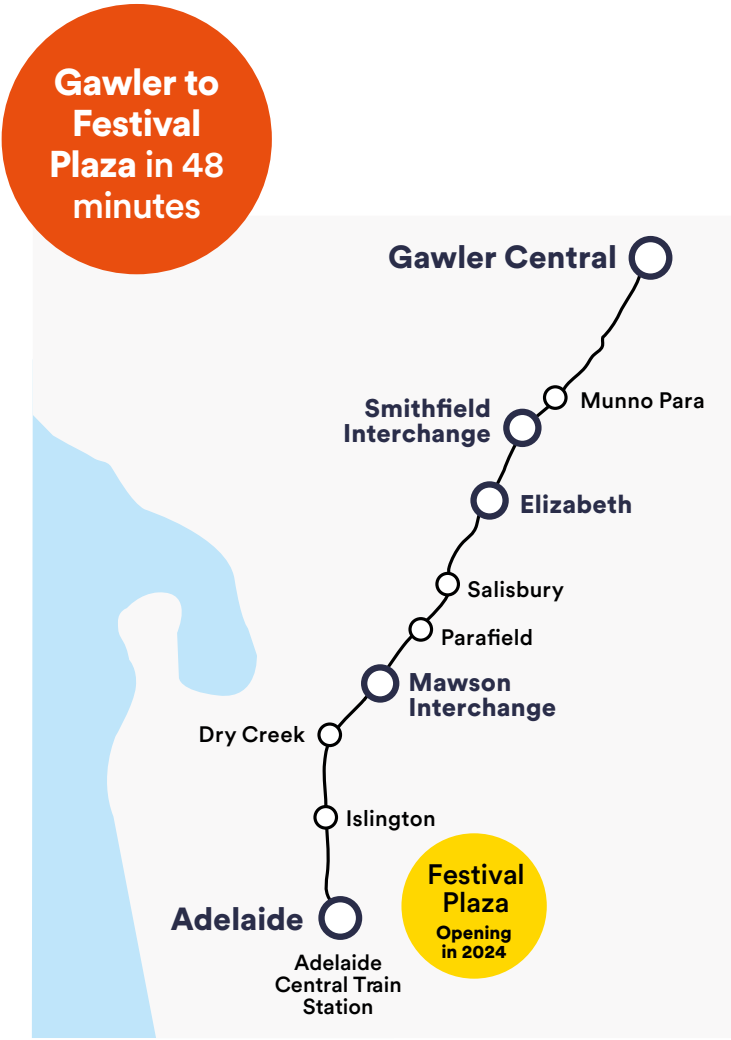


A new link from the north

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



Get more out of your study

Begin your journey to a successful career

Combined degrees

Combining your degree with a qualification in another discipline will give you more expertise and expand your career prospects. Studying a combined degree at Flinders will help you stand out from the crowd. A combined degree is a combination of two Flinders bachelor degrees. As a combined degree graduate you will have two qualifications in just one to one-and-a-half years of extra study.

There are dozens of combinations available, so why not explore your interests and find out where a combined degree could take you?

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

flinders.edu.au/combineddegrees

Combine your 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)

Laws - Legal Practice Entry with

Accounting, Arts, Business, Criminology, International Relations & Political Science, Information Technology, Science

Medical Science with

Engineering (Biomedical) (Honours)

Psychological Science with

Criminology

Business (Human Resource Management)

Business (Marketing)

Sport and Active Recreation

Science (Forensic and Analytical Science) with

Archaeology

Criminology

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 (Human Resource Management, International Business, Management, Marketing, Sports Management)
- 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

Standard University admission requirements apply.

The Diploma in Sports Management will teach you the core skills needed to begin a career in sports management, backed by over 100 hours of practical and hands-on training with Port Adelaide players, management and staff.

The Diploma in Language offers a solid foundation for learning and using a language of your choice, and will help you develop cross-cultural knowledge and skills that are invaluable in international workplaces.

flinders.edu.au/diplomas

Pathways to study

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

If you have secondary education

Year 12 entry

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

flinders.edu.au/year12

Guaranteed entry

If you achieve an ATAR equal to or above the published guaranteed entry selection rank (and you meet course prerequisites) you will be guaranteed a place at Flinders. We offer guaranteed entry for most courses.

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.

See page 40 for further details.

Elite Athlete Pathway

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

flinders.edu.au/study/sport/elite-athletes

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.

flinders.edu.au/study/pathways/year-12-entry/research-project

School Recommendation Program

We may consider your school’s recommendation about your academic performance as part of your admission into Flinders.

uniTEST

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.

flinders.edu.au/unitest

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.

flinders.edu.au/study/pathways/flinderslink

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.

flinders.edu.au/study/pathways/foundation-studies

Military pathways

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

flinders.edu.au/study/pathways/military-veterans

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.

satac.edu.au/stat

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.

flinders.edu.au/pathways

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.

flinders.edu.au/tafelink

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](https://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

Yungkurinthe Student Engagement

Yungkurinthe 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

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 into the future while also providing me with support in every way imaginable. Flinders and Yungkurinthe 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)

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

Ryan Rowston

Bachelor of Computer Science

Wyndham Richardson Scholarship Fund recipient

FLINDERS **ON DEMAND**

Watch Flinders On Demand

Register to find out everything you need to know about courses, support, life at Flinders and more. Flinders On Demand – 24/7 access to an incredible range of videos on careers and study options from lecturers, current students and alumni.

Register Now



Engineering, Defence, Computer Science & Information Technology

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: September 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