Computer Science & Information Technology

**2025**

Computer Science | Artificial Intelligence | Information Technology

Flinders.edu.au

At Flinders, it's all about your global career

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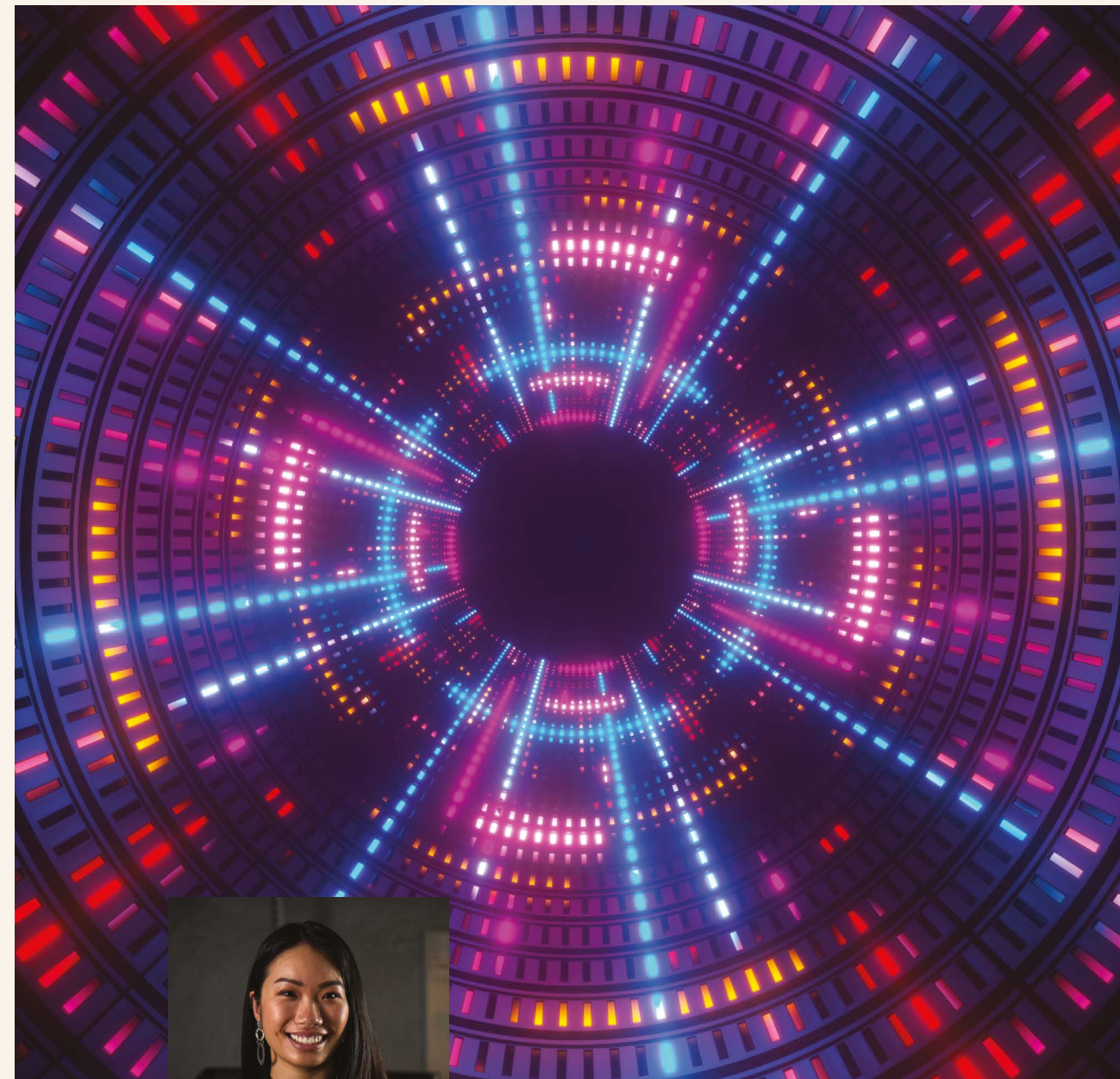
"Engineering is such an exciting field because it's always changing and evolving, which means that the problems we're faced with today will be completely different in a decade's time. This degree has equipped me with the skills I need for a strong start in the field I'm pursuing, in both technical and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

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

Computer Science & Information Technology

Our focus on innovation and entrepreneurship could see you contribute to the creative industries or the development of new products and services. Your degree could help you make your own way in areas as diverse as business, commerce, defence, medical research, climate change and the environment.

Find out everything you need to know about studying computer science and information technology at Flinders by scanning the QR code or visiting flinders.edu.au/computer-science-information-technology

Bachelor of Computer Science
Bachelor of Computer Science (Honours)

Gain the practical experience required to design efficient, reliable software that meets industry standards. You'll graduate with a comprehensive understanding of both the theoretical and practical aspects of computing technologies, prepared for a career in a computing-related field.

- You'll gain skills in the core computing technologies and knowledge of general computing and programming.
- Develop the necessary expertise in programming and software development to prepare you for work as a professional software designer.
- Gain the theoretical knowledge and skills required for a rewarding career or further computer science research and study.

Bachelor of Computer Science (Artificial Intelligence)
Bachelor of Computer Science (Artificial Intelligence) (Honours)

Turn science fiction dreams into reality and build a career creating a world of intelligent, communicating computers and gadgets. You'll study at the leading edge of AI science and learn how artificial intelligence is integrated into areas as diverse as health, online shopping and driverless transport.

- You'll study at the leading edge of AI science and learn how artificial intelligence is integrated into areas as diverse as health, online shopping and driverless transport.
- You'll develop in-demand skills to use and build systems that can analyse data and make intelligent decisions, and interact with users through intelligent multimodal interfaces.
- Choose to undertake a 12-week industry placement in your final year or undertake a group project at the university supported by project management training.

Bachelor of Computer Science (Honours)/Master of Science (Mathematics)

This degree provides both the theoretical paradigms and the practical skills required to design and implement computer-based systems. You will also learn mathematical concepts used to understand, model and describe the world around us to solve a wide range of both theoretical and real-world problems.

- Gain skills in core computing technologies and knowledge of general computing and programming to an Honours level.
- Complete your Master of Science (Mathematics) to enhance your knowledge of computer science fundamentals.
- Fully accredited by the Australian Computer Society.

Bachelor of Geospatial Information Systems

In this degree, you'll be taught skills to support change and growth in areas like global warming, urban planning, mining and exploration, archaeology, transportation and biodiversity management. We integrate field-based data acquisition with modern technology, computer workshops and classroom-based theory.

- Study at a university that leads Australia in implementing and teaching the latest geospatial technologies.
- Gain practical experience and develop on-the-job use of a range of relevant digital technologies in our dedicated Spatial Information Systems Laboratory.
- Develop contacts and work skills through an industry placement in an environmental agency.

Bachelor of Geospatial Information Systems / Bachelor of Surveying

Start your amazing journey to become a surveyor. Flinders University is the only South Australian University offering education in surveying, with a four-year double degree combining a Bachelor of Geospatial Information Systems and Bachelor of Surveying. It will enable graduates to qualify as registered surveyors in South Australia.

- Study the only undergraduate surveying degree in South Australia.
- You'll be in demand, with demand for surveyors and spatial scientists expected to increase; current estimates say surveying and geospatial completions need to increase 117.1% to 920 people per year to meet future demand over the next decade.*
- Gain practical experience and develop on-the-job use of a range of relevant digital technologies in our dedicated Spatial Information Systems Laboratory.

* (Determining the Future Demand, Supply and Skills Gap for Surveying and Geospatial Professionals: 2022 - 2032 January 2023 report).

Bachelor of Information Technology
Bachelor of Information Technology (Honours)

Gain the practical experience required to design efficient and reliable software that meets industry standards. You'll also learn about the hardware on which software runs. You'll graduate with a comprehensive understanding of both the theoretical and practical aspects of computing technologies, prepared for a career in a computing-related field.

- You'll be taught to analyse, design, implement and manage IT across any enterprise. You can specialise in areas such as network or website management, database administration and project management.
- Your learning combines technical prowess with the people-oriented skills required of IT workers.
- You'll gain real-world experience and learn how the IT workplace operates with a 12-week industry placement.

Bachelor of Information Technology (Business and Information Systems)
Bachelor of Information Technology (Business and Information Systems) (Honours)

These courses produce IT professionals ready to manage and innovate in any challenging business IT environment. Graduates will be well placed to act as the bridge between the business needs of an organisation and the computing professionals required to provide the technical solutions.

- Study both business and information technology topics.
- Design enterprise systems and work with external partners to develop business systems for a wide range of industries.
- Engage with multidisciplinary teams from across the University in the design and construction of information systems.

Bachelor of Information Technology (Data Analytics)
Bachelor of Information Technology (Data Analytics) (Honours)

Gain the skills to develop systems to analyse, manage and bring insight to large volumes of complex information. Graduates will be well placed to act as the bridge between the data and information needs of an organisation and the computing professionals required to provide the technical solutions.

- Engage with multidisciplinary teams from across the University in the design and construction of database and knowledge-based systems.
- Gain insight into the current trends in data engineering and its uses.
- Study in our $120 million science and technology precinct at Tonsley.

Bachelor of Information Technology (Digital Forensics)
Bachelor of Information Technology (Digital Forensics) (Honours)

Graduates will cover all the knowledge that a Bachelor of Information Technology graduate would cover plus studies in Forensic Science, Digital and Computer Forensics, Forensic Criminalistics, Internet and Network Forensics, Mobile Device Forensics, Evidence Evaluation and Crime Scene Management.

- Learn industry skills with Flinders University's national best practice work experience and job placements.
- Experience the world-class equipment at the Tonsley campus.
- Prepare yourself for further study in science or information technology fields.

Bachelor of Information Technology (Game Development)
Bachelor of Information Technology (Game Development) (Honours)

If you love games and want to learn how to make them, this course will familiarise you with the tools and practices of game development. Alongside entertainment applications, game development is used to create experiences to aid in training, health care, marketing or for social change.

- Develop your skills in computing, IT and cybersecurity.
- Your studies will cover all cutting-edge developments in communications technology like fibre optic technology, cloud computing, and social networking and media.
- You'll learn how to design electronic communications systems that maximise safety and security.

Computer Science & Information Technology

Find out everything you need to know about studying computer science and information technology at Flinders by scanning the QR code or visiting **flinders.edu.au/computer-science-information-technology**

Scan to find out more

Bachelor of Information Technology (Machine Learning)

Bachelor of Information Technology (Machine Learning) (Honours)

These courses produce IT professionals ready to innovate and develop the next generation of machine learning and artificial intelligence based applications. Graduates will be able to develop sophisticated solutions to complex problems using machine learning techniques and tools.

- Work with partners to design machine learning applications that can be deployed across a wide variety of industries.
- Study a broad range of both information technology and machine learning topics.
- Engage with multidisciplinary teams from across the University in the design and construction of knowledge-based, AI-driven systems.

Bachelor of Information Technology (Network and Cybersecurity Systems)

Bachelor of Information Technology (Network and Cybersecurity Systems) (Honours)

Gain a comprehensive understanding of computer security, communications technology, administration, network engineering, enterprise systems and information networks. You'll graduate with in-demand qualifications for the technology-driven marketplace.

- Develop your skills in computing, IT and cybersecurity.
- Your studies will cover all cutting-edge developments in communications technology like fibre optic technology, cloud computing, and social networking and media.
- Learn to work professionally and in a team through group projects, or take the opportunity to gain first-hand industry experience with a 12-week industry placement.

Undergraduate Certificate in Industry 4.0

This course exposes you to the digital technology that will drive the future. It covers key topics of innovation and Industry 4.0, 3D printing, robotics, IoT, cybersecurity, smart industries and design thinking, also including a digital transformation professional project.

- Study 100% online for six months and transform your career for a digital world.
- You'll be exposed to key skills for workplaces of the future.
- The program also provides a pathway or credit into the Diploma of Digital Technologies and the Bachelor of Information Technology.

Undergraduate Certificate in Mathematics

Designed to upgrade your foundational mathematics skills, this course will fast-forward your career prospects in STEM areas with a solid grounding in maths and applied coding skills. Expose yourself to calculus, algebra and functions, learn how to develop mathematical models and solutions for problems from a broad range of contexts, learn electronics and microprocessor programming, and become an effective communicator in mathematical and STEM-related disciplines.

- Increase your capability in mathematics.
- One year part-time online, plus a one-week intensive component.
- This certificate offers a pathway into further engineering education.
- Gain credit towards our engineering, IT, computer science, science, and mathematical science undergraduate programs.

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.

Our campuses

Flinders' Adelaide campuses include our main Bedford Park campus and Flinders at Tonsley, which features close links to industry. Our stunning new city campus is situated at Festival Plaza on North Terrace, right beside the Adelaide Railway Station.

Take a virtual tour of Flinders University and explore our amazing locations.

Getting to Flinders

Flinders is well connected to Adelaide by bus and train. The Flinders Railway Line gets you from our new city campus to Tonsley in a super-fast 20 minutes, or to Bedford Park in just 22 minutes.

Explore all our transport options.

Flinders University's cutting-edge, vertical campus offers a new way of learning in the heart of the city. Flinders' city campus 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.

Flinders' City Campus

Applying to study

How to apply

Applying to study at Flinders is easy, but there are some steps you'll need to follow. Applicants need to apply through the South Australian Tertiary Admissions Centre (SATAC).

You'll find application dates and details at:

satac.edu.au

Before you apply

Visit the course page you're interested in via the QR codes in this brochure, or via flinders.edu.au/study to make sure you have all the information and admission criteria you need, such as prerequisites and assumed knowledge.

You may also want to explore alternative pathways to your degree or combined degrees.

After you've applied

Once you've received an offer to a course, visit

students.flinders.edu.au/my-course/enrolment to enrol in your subject/topics.

Fees and charges

As an undergraduate student your course is Commonwealth supported provided you're an eligible Australian citizen, New Zealand citizen or permanent resident. This means that your course fees are shared between the Australian government and you. You may then choose to apply for a HECS-HELP loan to pay your student contribution amount. Find out more at:

flinders.edu.au/fees

If you have any questions

Feel free to contact us via phone, email or through a one-on-one appointment. We're always happy to help.

flinders.edu.au/study/contact-us

Starting at Flinders

When can I start?

Flinders offers two admissions cycles each year for undergraduate degrees. Semester 1 starts in March. If you've decided to take a break from schooling, you may decide to start mid-year in Semester 2, which starts in July. Note that not all degrees offer a Semester 2 start, so check the relevant course page via:

flinders.edu.au/study

Applications for both Semester 1 and Semester 2 open the previous August.

Key dates

Semester 1 Orientation week: 24 February 2025
Semester 1 2025 start date: 3 March 2025
Semester 2 Orientation week: 21 July 2025
Semester 2 2025 start date: 28 July 2025

Student support

Student support at Flinders starts from well before you apply. Our Flinders Support and Services Directory (students.flinders.edu.au/support) covers:

- health and wellbeing
- study and learning
- financial support and assistance
- enrolment and course support
- admin and technology
- careers and employment
- security
- Indigenous student support

Our support team is on hand to answer any questions you might have via phone, email or 1-on-1 sessions. If you have any questions, contact us via:

flinders.edu.au/study/contact-us

Flinders Living

Flinders is the only university in Adelaide that gives you the opportunity to live on campus.

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.edu.au

Yungkurrinthi Student Engagement

Yungkurrinthi Student Engagement provides a range of services and supports for Aboriginal and Torres Strait Islander students.

flinders.edu.au/study/indigenous-students

Glossary

There are many terms used within a university that may be unfamiliar or confusing. The link below contains a list of common university terminology.

students.flinders.edu.au/glossary

Flinders scholarships

Flinders offers a generous range of scholarships for students in undergraduate courses. With over 400 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

Work Integrated Learning

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.

flinders.edu.au/WIL

Combined degrees

Explore your interests and unlock more career opportunities by combining degrees. Combining your degree with a qualification in another discipline will help you develop specialised abilities to stand out from the pack. Studying a combined degree at Flinders is the key to enhancing your career opportunities.

For a full list of combined degree options visit:

flinders.edu.au/combineddegrees

Admission Pathways

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.edu.au/pathways

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.

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 for most courses.

Year 12 Grades Entry Scheme

Upon SACE completion, by using three of your best Year 12 grades, you can gain a place in your course of choice. This is in addition to being considered on any other pathway for which you are eligible.

Indigenous Admission Scheme

The Indigenous Admission Scheme provides an alternative pathway for Aboriginal and Torres Strait Islander people. Visit:

flinders.edu.au/indigenousadmissions

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.

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

Computing & Information Technology degrees

Scan to find out more

Bachelor degrees	SATAC CODE (^ AT FESTIVAL PLAZA)	2024 SELECTION RANK	2024 GUARANTEED SELECTION RANK	YEARS FULL-TIME	DEFERRABLE	TAFELINK	PATHWAY DEGREES	ADDITIONAL ENTRY REQUIREMENTS
Computer Science	214821, 284151^	63	70	3	Yes	Cert IV or above	Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	SACE stage two general mathematics or equivalent.
Computer Science (Artificial Intelligence) (Honours)	244231	80	85	4	Yes	Dip or above	Computer Science (Artifical Intelligance) (244231), Computer Science (214821,284151^), Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	SACE stage two general mathematics or equivalent.
Computer Science (Artificial Intelligence)	244221, 284841^	63	70	3	Yes	Dip or above	Computer Science (214821,284151^), Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	SACE stage two general mathematics or equivalent.
Computer Science (Honours)/Master of Science (Mathematics)	244731	95	95	5	Yes	NA	Computer Science (214821,284151^), Information Technology (214201, 284431^), Science (234511)	SACE stage two mathematical methods or equivalent.
Computer Science (Honours)	224431	80	85	4	Yes	Dip or above	Computer Science (214821,284151^), Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	SACE stage two general mathematics or equivalent.
Information Technology	214201, 284431^	60	65	3	Yes	NA	Science (234511)	None
Information Technology (Business and Information Systems) (Honours)	244821	70	75	4	Yes	Cert IV or above	Information Technology (Business and Information Systems) (244811, 284441^), Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Business and Information Systems)	244811, 284441^	65	70	3	Yes	Cert IV or above	Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Data Analytics) (Honours)	244841	70	75	4	Yes	Cert IV or above	Information Technology (Data Analytics) (244831, 284451^), Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Data Analytics)	244831, 284451^	65	70	3	Yes	Cert IV or above	Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Digital Forensics)	244641	70	65	3	None	Certificate IV or above	Information Technology (214201) (284431^), Science (234511)	None
Information Technology (Digital Forensics) (Honours)	244771	75	70	4	None	Diploma or above	Information Technology (Digital Forensics) (244641), Information Technology (214201) (284431^), Science (234511)	None
Information Technology (Game Development) (Honours)	224041	70	75	4	Yes	Dip or above	Information Technology (Game Development) (224101, 284461^), Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	None
Information Technology (Game Development)	224101, 284461^	65	70	3	Yes	Cert IV or above	Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Honours)	224441	70	75	4	Yes	Dip or above	Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	None
Information Technology (Machine Learning) (Honours)	244861	70	75	4	Yes	Cert IV or above	Information Technology (Machine Learning) (244851, 284471^), Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Machine Learning)	244851, 284471^	65	70	3	Yes	Cert IV or above	Information Technology (214201, 284431^), Science (234511)	None
Information Technology (Network and Cybersecurity Systems) (Honours)	224711	70	75	4	Yes	Dip or above	Information Technology (Network and Cybersecurity Systems) (224701, 284481^), Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	Knowledge of SACE stage two specialist mathematics, mathematical methods or equivalent is assumed.
Information Technology (Network and Cybersecurity Systems)	224701, 284481^	65	70	3	Yes	Cert IV or above	Information Technology (214201, 284431^), Science (234511), Diploma in Arts (216031)	Knowledge of SACE stage two specialist mathematics, mathematical methods or equivalent is assumed.

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

Flinders.edu.au