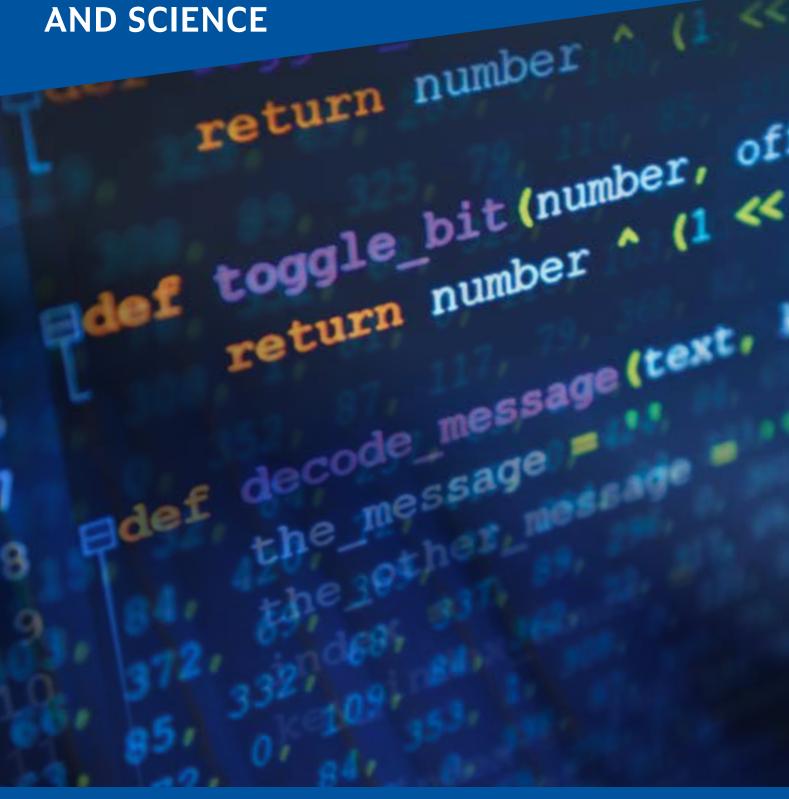


2021 INFORMATION
TECHNOLOGY, MATHEMATICS
AND SCIENCE



Information Technology / Mobile Apps / Games Design / Networking / Cybersecurity / Software Engineering / Data Science / Industrial and Applied Mathematics / Science / Environmental Science / Information Management

scientist

programmer

cybersecurity specialist

mathematician

A new reality awaits

Your unstoppable career starts here.

software engineer sustainability adviser

web developer



The Internet of Things is booming, with 1.5 billion devices and smart objects with cellular connections expected by 2022.

Internet of Things forecast, Ericsson Mobility Report Q2 2018.

app developer

data scientist

games developer

175%

Science, technology, engineering and mathematics (STEM) knowledge is associated with 75% of the fastest growing occupations, innovations and wage premiums.

CSIRO, Tomorrow's Digitally Enabled Workforce report, 2016.

SA's #1 UNIVERSITY FOR GRADUATE CAREERS

2019 ComparED (QILT) Graduate Outcomes Survey -Full-time Employment Indicator (Undergraduate). Public SA-founded universities only.

No.1 IN SA FOR STUDENT SATISFACTION

ComparED (QILT) Course Experience Questionnaire 2018-19 — Overall Satisfaction Indicator (Undergraduate). Public SA-founded universities only.

67,000+

An estimated 67,000 new jobs will be created in the ICT sector by 2023, an increase of 13.4% since 2018.

PwC's Industry Skills Forecast and Proposed Schedule of Work, Information and Communications Technology, May 2019. Explore the infinite possibilities of information technology, mathematics and science, and their range of applications across different disciplines and industries. Build practical and theoretical knowledge across diverse fields such as data science, networking and cybersecurity, mixed reality, software development, industrial mathematics, defence, artificial intelligence, games, science, environmental science, sustainability and more. Shape the answers to the questions of tomorrow by partnering with industry on real-world projects and create a better world through new discoveries. Take advantage of cutting-edge facilities fitted with the latest technologies and software.

unisa.edu.au/study

#1 IN AUSTRALIA

FOR OVERALL STUDENT EXPERIENCE IN INFORMATION TECHNOLOGY

2020 Good Universities Guide – Computing and Information Systems.

No.1 IN SA

FOR GRADUATE CAREERS AND TEACHING QUALITY IN SCIENCE AND MATHEMATICS

ComparED (QILT): Graduate Outcomes Survey 2017-19 – Full-time Employment Indicator and Course Experience Questionnaire 2018-19 – Teaching Quality Indicator (Undergraduate).

TOP 10 IN AUSTRALIA

FOR GRADUATE SKILLS IN INFORMATION TECHNOLOGY

ComparED (QILT): Course Experience Questionnaire 2018-19 – Generic Skills Indicator (Undergraduate) – Computing and Information Systems. Public SA-founded universities only.





A searing VR experience

South Australian residents in fire-prone areas are receiving major assistance with their emergency planning, thanks to a virtual reality (VR) initiative developed at UniSA.

Partnering with the Country Fire Service (CFS), UniSA PhD student Safa Molan developed a computer-generated bushfire scenario that replicated typical fire conditions in the Adelaide Hills.

By using the VR headset, residents can safely experience the pressures of implementing their bushfire emergency plans, and understand the impacts of choosing to evacuate or stay put. They can also use the VR experience to create or update their bushfire survival plan.

Feedback from participants will give the CFS a better understanding of how different people react in a fire situation, and lead to better communication and safety outcomes for those living in fire-prone areas.



Information technology is a part of everyday life, and its continuous evolution means that people with IT skills are in constant demand. Technology is the driving force behind activities like internet banking, online shopping, networking, cybersecurity, mobile gaming and more. If you have an interest in digital technology and enjoy solving problems, you're the perfect fit for a career in IT.

Maths is everywhere. Algorithms are powering things like industrial data analytics used by large corporations such as Amazon and are used to encode the images you see on platforms like Instagram. Explore this fascinating world by taking part in our one-year Maths Clinic during your maths degree, where you will apply specialist knowledge to an industry problem, creating real impact.

BIG DATA, NEW REALITIES

The modern world is built on data. Our digital transactions and online interactions generate a digital footprint that provides insight into our online behaviours, preferences and trends. As more data is generated through mobile, web and connected devices, more experts are needed to interpret the information. When you study an IT, maths or data science degree, you will learn to analyse, visualise and interpret big data and apply your findings to a range of industries.

You can also explore augmented reality through your IT degree at UniSA. This emerging technology is growing in popularity, particularly in gaming and entertainment — from using your phone to hunt cartoon characters to adding a filter to your selfie. Work on real-world projects and access the Wearable Computer Lab, one of the largest augmented reality research and development facilities in the Southern Hemisphere.

REAL-WORLD EXPERIENCE

Take part in industry-based, work-integrated learning that will prepare you for your future career in IT or maths. Enjoy access to our new \$2 million Industry 4.0 Testlab facility on campus, which supports the rapidly growing defence and space industries. From individual projects, to working with local and international companies to solve real-world challenges, you will collaborate with gaming companies, defence contractors, software developers and government agencies. You can also participate in overseas placements in countries like Sweden or China, or go on a study tour to Japan or Vietnam.

INDUSTRY PARTNERSHIPS

Study the Bachelor of Information Technology at UniSA and benefit from our industry partnerships by putting your learning into practice with DXC Technology. Apply for a 6-month paid internship with the global technology company and align your career aspirations with opportunities in the workplace. Work alongside industry experts and be guided by a mentor who will support you as you gain real-world experience while working on complex large-scale projects. Receive full academic credit while combining world-class learning with global enterprise.





Study environmental science and access specialised tools to help unlock nature's secrets with Project LIVE, an immersive virtual learning environment located on campus. This unique space features cutting-edge 360° video, interactive 3D models and virtual reality simulations. From drone imagery of erosion patterns along the SA coastline to satellite monitoring of ice sheet stability in Antarctica, Project LIVE provides a hands-on experience of digital imaging, mapping and spatial analysis.



HARNESSING THE POWER OF SUNSHINE

See the possibilities of science come to life by studying at UniSA. Our world-class research is breaking new ground and you can be a part of new innovations and discoveries. South Australia is a global leader in renewable technology and UniSA is at the forefront when it comes to developing new methods of energy production. Mawson Lakes Campus is home to our science degrees and is also the perfect backdrop to showcase our commitment to a greener future. The campus boasts its own solar power research field and has over 5,300 solar panels, generating approximately 2,500 megawatt-hours of electricity and reducing around 1,275 tonnes of carbon dioxide emissions every year.

BECOME A TEACHER

The renewed focus on STEM within the Australian curriculum means there has never been a better time to become a maths or science teacher. Package your maths or science degree with a Master of Teaching (Secondary) and get the qualifications you need to teach up to Year 12 in just five years of study.







Learn a language

Develop the skills you need to work internationally and increase your career opportunities by studying a second language. Learn French, Italian, Japanese or English (for speakers of English as a second language) through a Diploma in Languages. Access the Multimedia Languages Lab at Magill Campus and connect with native speakers from around the world in real-time. Graduate with an additional qualification by studying the diploma alongside your undergraduate degree.

unisa.edu.au/languages

Experience student life

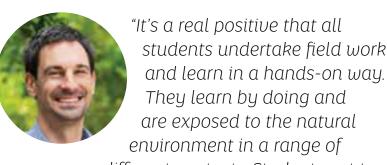
Enjoy life beyond the classroom by getting involved in campus culture. Connect with new people at Orientation, keep active with UniSA Sport and on-campus fitness centres, or find your tribe with more than 100 student clubs to choose from. Discover our wide range of events throughout the year and connect with our student association, USASA.

unisa.edu.au/studentexperience

Get career ready

Prepare for your future career from first year with support from our Career Services team. Access our online Career Hub for self-help resources, including tips on resume writing and an interview simulator. There are also professional and exclusive job listings. Connect with a career adviser for help with career mapping, attend industry events to build your professional networks, and walk into one of our drop-in centres on campus for general careers advice.

unisa.edu.au/careers



different contexts. Students get to see science in action in the real world, visiting sites both locally and internationally."

Associate Professor Tom Raimondo | Program Director: Environmental Science

Award Recipient: 2019 South Australian Science Excellence Awards for STEM Educator of the Year – Tertiary Teaching

ONE OF THE BEST YOUNG UNIVERSITIES IN AUSTRALIA FOR TEACHING QUALITY

Ranked #2, 2019 THE Young University Rankings.

GET CONNECTED

with Australia's University of Enterprise

PRACTICAL LEARNING

UniSA offers more than 200 world-class degrees across a wide range of discipline areas. You will learn in a highly practical environment. Take the opportunity to complete an internship or placement during your studies, learning from experts in a real-world setting. Build your networks and graduate career-ready with the skills required of tomorrow's professionals.

TOP RANKING TEACHERS

Make your study experience relevant, and learn from highly qualified academics and industry professionals. In fact, UniSA is one of Australia's best young universities for teaching quality (Ranked #2, 2019 THE Young University Rankings).

WORLD-CLASS FACILITIES

Study in modern, purpose-built facilities across all six UniSA campuses. Learn with the latest industry-standard tools and technologies that will take you from the classroom into the workplace. This includes state-of-the-art laboratories, collaborative learning areas, creative studios, workshops and simulation spaces.

POWERFUL PARTNERSHIPS

We collaborate with more than 2,500 companies worldwide to bring our students placement, project, research and work opportunities. Connect with industry professionals during your studies and benefit from curriculum informed by the latest industry practices.

REAL RESEARCH

Our research is innovative and inspired by challenges. We produce new knowledge that provides solutions to industry, businesses and the wider community. Explore cutting-edge insights in your chosen degree, influenced by our world-class research outcomes.



"Successful careers are built on having the right attitude, the right skills, and the drive to always learn and improve. Degrees that have been developed in consultation with industry are a fantastic way to fast-track anyone to a great career and attending a university that has strong industry connections can help you develop the real-world skills that organisations are looking for."

Stuart Swan | Practice Manager, DXC Technology















































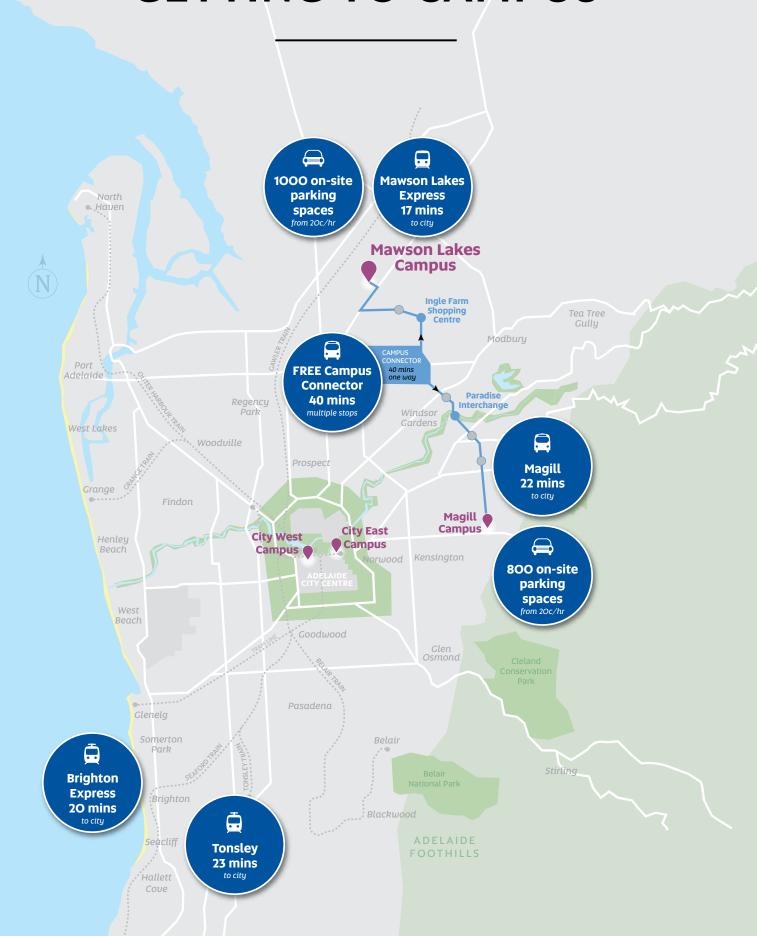








GETTING TO CAMPUS

















Jump on the tram

Take advantage of the new city tram service operating along North Terrace for a convenient ride between City East and City West campuses or stop at other destinations along the way. Visit the Adelaide Metro website for more information.





Campus Connector

We run a free bus service between Magill and Mawson Lakes campuses to make travelling easier for students who need to make the journey, or live in surrounding suburbs. There is even free Wi-Fi on board! Go online for full timetable and route details.



UNDERGRADUATE DEGREES

Your tertiary learning and career starts with undergraduate study.

> To explore our 200+ degrees, visit unisa.edu.au/study

To learn more about how to apply, visit unisa.edu.au/apply

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Information Technology and Data Analytics (100% online) / 16 Mathematics (Data Science) / 17

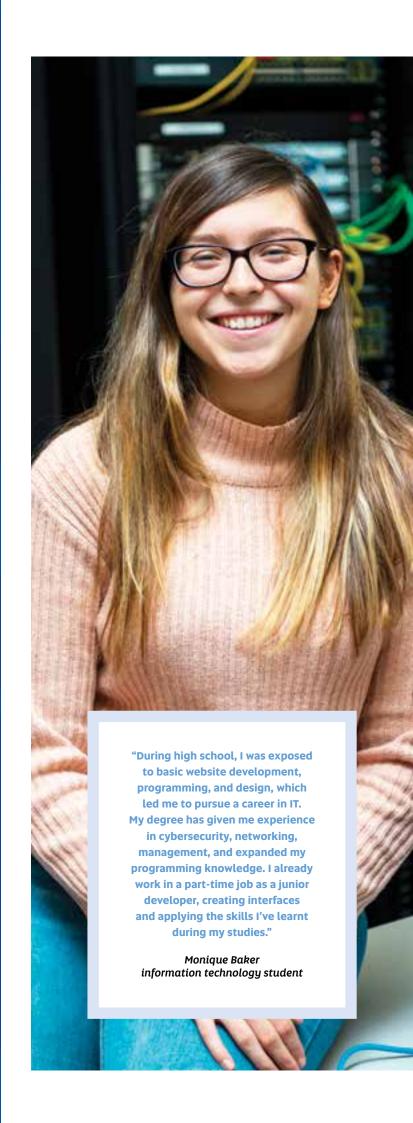
Mathematics (Industrial and Applied Mathematics) / 18 Science / 20

> Environmental Science / 21 Outdoor and Environmental Leadership / 22



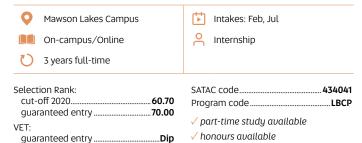
ATAR > DEGREE FINDER

ATAR > Degree Finder, to explore which degrees you may be eligible for using your Selection Rank. unisa.edu.au/atar-degree-finder



Bachelor of Information Technology

unisa.edu.au/IT



UniSA College pathways: Foundation Studies or Diploma in Information Technology

SAIBT pathways: Diploma of Technology

Prerequisites: none Assumed knowledge: none

- Choose two IT minors from areas like 3D Animation, Games, Multimedia, Software Development and Visual Effects.
- Or, choose one IT minor and one cross-disciplinary minor from areas like Innovation and Entrepreneurship, International Business or Marketing.

Build a dynamic career as an IT professional. Study core courses that will give you a solid foundation in IT, networking, database and programming fundamentals, and systems analysis. Tailor your studies by choosing from a wide range of minors. You can select two IT minors from areas such as 3D Animation, Business Systems, Data Analytics, Games, Mobile Applications, Multimedia, Networking, Security, Software Development and Visual Effects. You also have the choice of selecting one minor from a different discipline, such as Accounting, Digital Media, Innovation and Entrepreneurship, International Business, Marketing or Management. Learn with the latest industry-standard technologies and tools in the IT Development Studio and IT Innovation Studio located on campus. Gain valuable practical experience and collaborate with a real client on a final-year ICT project. You will also have the opportunity to put your learning into practice with UniSA's unique collaboration with DXC Technology, one of the largest technology companies in the world. Second-year students will be able to apply for a six-month paid internship with DXC, connecting directly with industry. Graduate with a degree accredited by the Australian Computer Society. Transfer into a different IT specialisation and receive study credit for completed courses.

Note: UniSA's IT degrees (Program code: LBCP) share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses.

CAREERS

Software developer / networking analyst / web developer / IT consultant / database developer / IT manager / systems analyst / computer programmer / user interface developer

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology various specialisations
- Bachelor of Business (Information Strategy and Management)
- Bachelor of Design (Illustration and Animation) (Game Art)
- Bachelor of Software Engineering (Honours)

FURTHER STUDY

- Bachelor of Information Technology (Honours) one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio

Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio

Software Design and Implementation SECOND System Design Studio Minor Course Minor Course

Agile Development and Governance Proiect Studio Minor Course

Security Principles Big Data Basics Minor Course Minor Course

> Elective Minor Course Minor Course ICT Capstone Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

To explore all cross-disciplinary minors, visit



Minor Course

Looking for alternative entry?

Preference a packaged Diploma in Information Technology/ Bachelor of Information Technology.

For more information, visit unisa.edu.au/college

SATAC code: 426061



Bachelor of Information Technology (Games and Entertainment Design)

unisa.edu.au/IT

| Mawson Lakes Campus | intakes: Feb, Jul | |
|--|-----------------------------|--|
| On-campus/Online | Real-world projects | |
| 3 years full-time | | |
| Selection Rank: cut-off 2020 66.90 | SATAC code | |
| guaranteed entry 70.00 | √ part-time study available | |
| quaranteed entry Dip | √ honours available | |

UniSA College pathways: Foundation Studies or Diploma in Information Technology SAIBT pathways: Diploma of Technology

Prerequisites: none Assumed knowledge: none

Learn to develop new and exciting applications for different industries and markets. Apply technical skills and creativity to game-type productions, software and interfaces. Study core courses that will give you a solid foundation in IT, networking, database and programming fundamentals, and systems analysis. You will then complete highly specialised courses focusing on computer graphics programming, multimedia design and information visualisation. Explore interface design, interaction and experience; tools for software development; game asset creation; computer game design concepts; mobile game development; and artificial intelligence. Learn with the latest industry-standard technologies and tools in the IT Development Studio and IT Innovation Studio located on campus. Gain valuable practical experience and collaborate with a real client on a final year ICT project. Graduate with a degree accredited by the Australian Computer Society. Transfer into a different IT specialisation and receive study credit for completed courses.

Note: UniSA's IT degrees (Program code: LBCP) share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses.

CAREERS

Game designer / Android and iOS developer / mobile games developer / video game designer / video game system designer / game programmer / web developer / multimedia specialist

YOU MIGHT ALSO LIKE

- **Bachelor of Creative Industries**
- Bachelor of Design (Illustration and Animation) (Game Art)
- Bachelor of Information Technology (Software Development)

- Bachelor of Information Technology (Honours) one year
- Master of Information Technology (Enterprise Management)

DEGREE STRUCTURE

Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio

Software Design and Implementation ECOND YEAR System Design Studio Game Asset Design Data Structures Essentials

Agile Development and Governance Project Studio Game Design Android Games Development

THIRD Security Principles Big Data Basics Design Patterns with C++ Operating Systems and Tool Chains Flective Small Business for Professionals Game Engines ICT Capstone Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of Information Technology (Mobile Application Development)

unisa.edu.au/IT

| Mawson Lakes Campus | Intakes: Feb, Jul |
|------------------------------|---------------------|
| On-campus/Online | Real-world projects |
| 3 years full-time | |
| Selection Rank: cut-off 2020 | SATAC code |

UniSA College pathways: Foundation Studies or Diploma in Information Technology SAIBT pathways: Diploma of Technology

Prerequisites: none

Assumed knowledge: none

Build a dynamic career as a mobile app developer. Gain the technical knowledge and specialist software skills needed to design your own apps for various platforms. Influence how people interact with social networks, entertainment, e-commerce, and information sourcing and sharing. Study core courses that will give you a solid foundation in IT, networking, database and programming fundamentals, and systems analysis. You will then complete highly specialised courses that will teach you how to develop apps in languages such as C++ and .NET, which will get you career-ready. Learn from industry experts and develop the techniques to successfully pitch your app ideas to investors or start your own company. Train with the latest industry-standard technologies and tools in the IT Development Studio and IT Innovation Studio located on campus. Gain valuable practical experience and collaborate with a real client on a final-year ICT project. Graduate with a degree accredited by the Australian Computer Society. Transfer into a different IT specialisation and receive study credit for completed courses.

Note: UniSA's IT degrees (Program code: LBCP) share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses.

Mobile app developer / Android and iOS app developer / application developer / software applications programmer / web developer / entrepreneur

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Information Technology (Networking and Cybersecurity)
- Bachelor of Information Technology (Software Development)

FURTHER STUDY

- Bachelor of Information Technology (Honours) one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio

Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio

Software Design and Implementation SECOND System Design Studio Operating Systems and Tool Chains Data Structures Essentials

Agile Development and Governance Project Studio Web Technology IOS Enterprise Development

Security Principles THIRD Big Data Basics Design Patterns with C++ Android Games Development Cloud and Concurrent Programming Small Business for Professionals

ICT Capstone Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of Information Technology (Networking and Cybersecurity)

unisa.edu.au/IT

| Mawson Lakes Campus | intakes: Feb, Jul | |
|---|-----------------------------|------|
| On-campus/Online | Real-world projects | |
| 3 years full-time | | |
| Selection Rank: | SATAC code4 | |
| cut-off 2020 60.00 guaranteed entry 70.00 | Program code | LBCP |
| VET: | √ part-time study available | |
| guaranteed entry Dip | √ honours available | |

UniSA College pathways: Foundation Studies or Diploma in Information Technology SAIBT pathways: Diploma of Technology

Prerequisites: none Assumed knowledge: none

Develop the skills to support a network roll-out and infrastructure maintenance, as well as knowledge in networking topologies, routers and firewalls. Learn about the security of information in contemporary IT systems and navigate the current climate of escalating cyber-attacks. Study core courses that will give you a solid foundation in IT, systems analysis, networking, and database and programming fundamentals. You will then complete specialist courses, focusing on digital forensic, cloud storage, information security management and network security. The core networking courses will also prepare you to sit industry certification exams in CISCO, CCNA and CCNP. Learn with the latest industry-standard technologies and tools in the IT Development Studio and IT Innovation Studio located on campus. Gain valuable practical experience and collaborate with a real client on a final-year ICT project. Graduate with a degree accredited by the Australian Computer Society. Transfer into a different IT specialisation and receive study credit for completed courses.

Note: UniSA's IT degrees (Program code: LBCP) share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses.

CAREERS

Cybersecurity analyst / network administrator / network engineer / cybersecurity consultant / cybersecurity governance manager / policy adviser / IT service delivery manager

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology (Software Development)
- Bachelor of Business (Information Strategy and Management)

FURTHER STUDY

- Bachelor of Information Technology (Honours) one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio

Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio

Software Design and Implementation System Design Studio Network Architecture Security Principles

Agile Development and Governance Project Studio Business Resilience **CCNP Enterprise Core**

Network Security THIRD YEAR Systems Administration CCNP Enterprise Services Cloud, Virtualisation and Storage

Elective Big Data Basics Digital Forensics Essentials ICT Capstone Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of Information Technology (Software Development)

unisa.edu.au/IT

| Mawson Lakes Campus | intakes: Feb, Jul | |
|------------------------------|--|--|
| On-campus/Online | Real-world projects | |
| 3 years full-time | | |
| Selection Rank: cut-off 2020 | SATAC code | |
| VET: guaranteed entryDip | √ part-time study available √ honours available | |

UniSA College pathways: Foundation Studies or Diploma in Information Technology SAIBT pathways: Diploma of Technology

Prerequisites: none

Assumed knowledge: none

Enter the world of software development and programming. Become an expert in the design, implementation and testing of small and large software systems. Study core courses that will give you a solid foundation in IT, systems analysis, networking, and database and programming fundamentals. You will then learn to program in a variety of languages, including HTML, C++, .NET, and in cloud-based applications. Be exposed to real-world practice and cutting-edge developments in this space. Learn with the latest industry-standard technologies and tools in the IT Development Studio and IT Innovation Studio located on campus. Gain valuable practical experience and collaborate with a real client on a final-year ICT project. Graduate with a degree accredited by the Australian Computer Society. Transfer into a different IT specialisation and receive study credit for completed courses.

Note: UniSA's IT degrees (Program code: LBCP) share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses.

CAREERS

Software developer / web developer / iOS developer / app developer / programmer / front-end developer / systems analyst

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology
- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Software Engineering (Honours)

FURTHER STUDY

- Bachelor of Information Technology (Honours) one year
- · Master of Information Technology (Enterprise Management)
- · Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio Object Oriented Programming Data Driven Web Technologies

System Requirements and User Experience System Requirements Studio

Software Design and Implementation SECOND System Design Studio Operating Systems and Tool Chains Data Structures Essentials

Agile Development and Governance Project Studio Web Technology IOS Enterprise Development

Security Principles Big Data Basics Design Patterns with C++ Database for the Enterprise

Elective Cloud and Concurrent Programming Al and Machine Learning ICT Capstone Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of Software Engineering (Honours)

unisa.edu.au/IT



Mawson Lakes Campus



On-campus/Online



Real-world projects

intakes: Feb, Jul

4 years full-time

Selection Rank: cut-off 2020. quaranteed entry

SATAC code... .434211 Program code..... LHSG

√ part-time study available

UniSA College pathways: Foundation Studies or Diploma in Information Technology (UniSA College)

Prerequisites: none Assumed knowledge: none

guaranteed entry

Develop a broad understanding of computing and IT theory, combined with specialist knowledge to become a software engineer. Go beyond traditional programming and learn to develop modern and sophisticated software systems. Focus on key areas such as artificial intelligence, cloud programming and software development, and build your skills in languages such as .NET and C++. Learn with the latest industry-standard technologies and tools in the IT Development Studio and IT Innovation Studio located on campus. Gain valuable practical experience by completing major projects in your final year, focusing on real-world IT issues or challenges. Graduate with a degree accredited by the Australian Computer Society.

CAREERS

Software engineer / test manager / software developer / iOS developer / programmer / software architect / IT project lead

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology
- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Engineering (Honours) (Electrical and Electronic)

FURTHER STUDY

- · Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio

Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio

Software Design and Implementation SECOND System Design Studio Operating Systems and Tool Chains Data Structures Essentials

Agile Development and Governance Project Studio Web Technology Data Structures Advanced

Security Principles THIRD Big Data Basics Design Patterns with C++ Computer Science

> Secure Software Development Research Directions in ICT Cloud and Concurrent Programming Al and Machine Learning

IT Project 1 FOURTH System Architecture Software Engineer Elective 1 Database for the Enterprise

IT Project 2 Software Engineer Elective 2 Software Engineer Elective 3

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.



Bachelor of Information Technology (Honours)

unisa.edu.au/IT

| Mawson Lakes Campus | intakes: Feb, Jul |
|--|-------------------|
| On-campus | Research project |
| 1 year full-time | |
| Selection Rank: n/a cut-off 2020 | SATAC code |

Prerequisites: none Assumed knowledge: none

Study a one-year honours program to enhance your professional career opportunities in information technology, computing or information systems; or continue with additional postgraduate studies. Complete advanced coursework and a major 12-month project focusing on a real-world IT issue or challenge that demonstrates your multi-disciplinary skills in key areas such as computer graphics, business intelligence, software development, networking, information management and security. Benefit from access to the latest knowledge and insights from our strong research environment, including the Australian Research Centre for Interactive and Virtual Environments (IVE) located on campus. Graduate with a degree professionally accredited by the Australian Computer Society.

CAREERS

ICT manager / network security manager / software engineer / test manager / IT project manager / IT consultant / network architect / computer scientist / cybersecurity consultant / research assistant

ENTRY REQUIREMENTS

This program is available to students who have successfully completed a bachelor degree in information technology or a related discipline, and who have displayed a high-level of academic achievement throughout their degree (typically a credit average or above).

FURTHER STUDY

- · Master Information Technology (Enterprise Management)
- · Master of Cybersecurity
- Master of Data Science
- Masters by Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

Research Methods Flective ITMS Honours Minor Thesis 1 2 x Electives ITMS Honours Minor Thesis 2

Bachelor of Information Technology and Data Analytics

unisaonline.edu.au/it-data-analytics



Pathways: Literacy and Numeracy Test with relevant work experience (UniSA Online); or Foundation Studies or Diploma in Information Technology (UniSA College).

Prerequisites: none Assumed knowledge: none

STUDY ON DEMAND

Study a 100% online degree in IT and data analytics, designed specifically for flexible learning. Explore all facets of IT including programming, networking, web applications, and systems analysis and design. Analyse and visualise rich data sources, learn to identify data trends and generate data management strategies. Get hands-on experience by working with the latest tools in data mining, predictive analysis, trend monitoring and data visualisation. Access online support services seven days a week, view learning resources 24/7 and log in to the interactive online environment anywhere, anytime, and on any device. Benefit from flexible study with no need to attend lectures or come on campus – all courses and assessments are delivered online. Scholarships and grants are also available for eligible students.

CAREERS

Data scientist / data visualisation specialist / web developer / software developer / developer programmer / database designer / systems analyst

CREDIT CHECK

Fast-track your degree and receive credit for past study and/or work experience.

- Check your eligibility at unisaonline.edu.au/eligibility
- Gather your relevant documents
 Complete your application and send through your documents

Apply directly at unisaonline.edu.au or call 1800 531 962

DEGREE STRUCTURE

Critical Approaches to Online Learning Information Technology Fundamentals Problem Solving and Programming Design Thinking and Digital Innovation Systems Analysis Programming Fundamentals IT Project Management Database Fundamentals

Data Structures SECOND Statistics Using R Systems Design Web Development Predictive Analytics Business Analytics 2 x Electives

Network Fundamentals THIRD YEAR Interface Design, Interaction and Experience Big Data Analytics Data Visualisation ICT Project (Part 1) ICT Project (Part 2) 2 x Electives

Bachelor of Mathematics (Data Science)

unisa.edu.au/mathematics

| Mawson Lakes Campus | Intakes: Feb, Jul |
|------------------------------|---------------------|
| On-campus/Online | Real-world projects |
| 3 years full-time | |
| Selection Rank: cut-off 2020 | SATAC code |
| VET: guaranteed entryDip | ✓ honours available |

UniSA College pathways: Foundation Studies

Prerequisites: SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available to students who have not successfully completed SACE Stage 2 Mathematical Methods, but have completed SACE Stage 1 Mathematics with at least 20 credits, C Grade or higher.

Assumed knowledge: none

Prepare for a career in the growing field of data science where skilled professionals are in high demand. Discover ways to analyse and interpret vast amounts of data to provide intelligent business solutions. Learn to solve complex problems through quantifying and understanding data. Study a balanced mix of courses in mathematics, information technology and data science. In first year, you will focus on building your mathematical and programming skills with courses in calculus, statistical methods, fundamentals of programming and databases. You will then move into applied data science studies, learning about areas such as web development, data structures, mathematical communication and mathematical modelling. In final year, you will develop skills in programming and networking, project management and analytics. Gain hands-on experience through a major ICT project working on a real-world challenge and strengthen your abilities in research, analysis and interpretation of data. Package this degree with a Master of Teaching (Secondary) to become a maths teacher.

Note: UniSA's maths degrees (Program code: LBMH) share common first-year courses, so students have the option to transfer specialisations and receive study credit for successfully completed courses.

Data scientist / data analyst / business intelligence analyst / data architect / data mining engineer / visualisation designer / data consultant / big data engineer / big data researcher / teacher (with further study)

YOU MIGHT ALSO LIKE

- · Bachelor of Mathematics (Industrial and Applied Mathematics)
- · Bachelor of Information Technology
- Bachelor of Software Engineering (Honours)

FURTHER STUDY

- · Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) - one year
- Master of Data Science
- Master of Teaching (Secondary)

DEGREE STRUCTURE

Calculus 1 Statistical Methods Problem Solving and Programming Discrete Mathematics

Calculus 2 Linear Algebra Object Oriented Programming Data Driven Web Technologies

Applied Probability SECOND Data Structures Web Development Interface Design, Interaction and Experience Mathematical Communication

Mathematical Modelling Data Analytics using R Analytics for Decision Making

Linear Programming and Networks Predictive and Descriptive Analytics Visualisation for Data Science Mathematics Clinic 1 OR Elective

Business Intelligence and Analytics ICT Project OR Advanced Mathematics Clinic Mathematics/IT OR Science Elective

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.



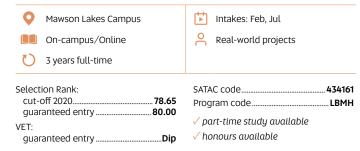
Package this program with the Master of Teaching (Secondary) to become a maths teacher.

Find out more at unisa.edu.au/become-a-teacher

SATAC code: 434221

Bachelor of Mathematics (Industrial and Applied Mathematics)

unisa.edu.au/mathematics



UniSA College pathways: Foundation Studies

Prerequisites: SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available to students who have not successfully completed SACE Stage 2 Mathematical Methods, but have completed SACE Stage 1 Mathematics with at least 20 credits, C Grade or higher.

Assumed knowledge: none

Choose from a wide range of elective courses in areas like statistics and data science, information technology, physics, biology, chemistry and ecosystem sciences.

Apply mathematical methods and models to find solutions to practical problems. Explore the relationship and application of mathematics to other disciplines such as physics, engineering, information technology and biology. Develop your problem-solving and analytical skills by studying key courses in simulation theory, algebra, differential equations and stochastic calculus. Broaden your knowledge and skills through additional courses in IT and programming, focusing on statistical methods, fundamentals of programming, and understanding databases. Participate in the Maths Clinic program in your final year, working closely with an industry partner on a real-world project. Package this degree with a Master of Teaching (Secondary) to become a maths teacher.

Note: UniSA's maths degrees (Program code: LBMH) share common first-year courses, so students have the option to transfer specialisations and receive study credit for successfully completed courses.

CAREERS

Biostatistician / cryptanalyst / business data analyst / forecast analyst / business intelligence developer / mathematician / information analyst / data modeller / information security analyst / researcher / teacher (with further study)

YOU MIGHT ALSO LIKE

- · Bachelor of Mathematics (Data Science)
- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Science
- Bachelor of Secondary Education (Honours)

FURTHER STUDY

- Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) - one year
- Master of Data Science
- Master of Teaching (Secondary)

DEGREE STRUCTURE

Calculus 1 Statistical Methods Problem Solving and Programming Discrete Mathematics Calculus 2 Linear Algebra Object Oriented Programming Data Driven Web Technologies

Applied Probability SECOND Linear Programming and Networks Mathematical Methods for Engineers 3 Multivariable Calculus

Mathematical Communication Mathematical Modelling Elective Differential Equations 1

Mathematics Clinic 1 Optimisation Fundamentals of Real Analysis Elective

> Advanced Mathematics Clinic Topics in Mathematics 1 Topics in Mathematics 2 University Elective

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.



Package this program with the Master of Teaching (Secondary) to become a maths teacher.

Find out more at unisa.edu.au/become-a-teacher

SATAC code: 434181

Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics)

unisa.edu.au/mathematics

| 0 | Mawson Lakes Campus |
|---|---------------------|
| | On-campus/Online |

1 year full-time

Intakes: Feb, Jul Research project

Selection Rank: cut-off 2020 quaranteed entry

4BH005 SATAC code.... Program code.....

√ part-time study available

Prerequisites: none Assumed knowledge: none

guaranteed entry

Take your studies to the next level and prepare for advanced coursework and research in applied mathematics, statistics and optimisation through a one-year honours program. Study core topics such as simulation theory, algebra, differential equations and stochastic calculus. Complete a major industrial, scientific or commercial project that explores the practical application of mathematics to real-world challenges under the supervision of a highly experienced mathematician or statistician. Access our multi-million dollar Materials and Minerals Science Learning and Research Hub on campus. Graduate with the skills required to work in a wide range of areas such as sustainability, defence, data science or research.

CAREERS

Environmental modeller / mathematical analyst / mathematical modeller / mathematician / data scientist / business intelligence analyst / defence analyst / researcher

Entry requirements

A bachelor degree in mathematics, or an equivalent qualification, from a recognised higher education institution with meritorious performance

FURTHER STUDY

- · Master of Data Science
- Masters by Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

Honours Topics in Mathematics and Statistics Research Methods Honours Mathematics and Statistics Project 1 Elective 1 Elective 2 Honours Mathematics and Statistics Project 2

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.



Bachelor of Science

unisa.edu.au/science

| Mawson Lakes Campus | intakes: Feb, Jul |
|--|---------------------|
| On-campus | Real-world projects |
| 3 years full-time | |
| Selection Rank: cut-off 2020 61.00 | SATAC code |

| guaranteed entry | 70.00 |
|------------------|-------|
| VET: | |

guaranteed entryDip

434201 Program code. LBSC

√ part-time study available √ honours available

UniSA College pathways: Foundation Studies or Diploma in Science and the Environment

Prerequisites: Students must have completed two of the following – SACE Stage 2 Biology, SACE Stage 2 Chemistry, SACE Stage 2 Earth and Environmental Science, SACE Stage 2 Mathematical Methods, SACE Stage 2 Physics or SACE Stage 2 Specialist Mathematics.

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites for the Applied Physics and Mathematics majors

Assumed knowledge: SACE Stage 2 Physics and Mathematical Methods for the Applied Physics major; SACE Stage 2 Chemistry for the Biology and Chemistry majors and SACE Stage 2 Mathematical Methods for the Mathematics major.

Choose two majors from Applied Physics, Biology, Chemistry, Ecosystem Sciences and Mathematics.

Unravel the mysteries of the natural and physical world. Build your career as a scientist, making predictions and informed decisions through the systematic study of the nature and behaviour of the physical universe. Study the fundamentals of science through observation, experimentation and measurement. Tailor your degree by choosing two majors that align with your interests and career goals, including Applied Physics, Biology, Chemistry, Ecosystem Sciences or Mathematics. Gain practical experience through laboratory and field work. Access industry-standard facilities and engage with researchers at the multi-million dollar Future Industries Institute on campus. Package this degree with a Master of Teaching (Secondary) to become a science teacher.

Note: Students interested in taking a major in another area of science can discuss their options with the University after enrolment

CAREERS

This degree can lead to a variety of careers in the following:

Research laboratories / medical and pharmaceutical industries / manufacturing / environmental management / food development / geographic information systems / mining and energy / information technology / defence science / meteorology / teaching (with further study)

YOU MIGHT ALSO LIKE

- · Bachelor of Environmental Science
- Bachelor of Mathematics (Industrial and Applied Mathematics)
- Bachelor of Health Science (Public Health)
- Bachelor of Medical Science
- Bachelor of Secondary Education (Honours)

FURTHER STUDY

- · Bachelor of Science (Honours) one year
- Master of Teaching (Secondary)
- Masters by Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

Professional and Technical Communication Science Major A - course 1 Science Major B - course 1 Elective 1

Statistics for Laboratory Sciences Science Major A - course 2 Science Major B - course 2 Elective 2

Science Major A - course 3 SECOND Science Major A - course 4 Science Major B - course 3 Elective 3

> Science Major B - course 4 Science Major B – course 5 Science Major A - course 5 Elective 4

Science Major A - course 6 Science Major A - course 7 Science Major B – course 6 Elective 5

> Science Major A - course 8 Science Major B - course 7 Science Major B - course 8 Elective 6

APPLIED PHYSICS MAJOR

Applied Physics 1 Applied Physics 2 Physics of Materials and Technology Computational Science 1 Applied Physics 4 Modern Physics OR Computational Science 2 Optical Communications G OR Lasers and Optics Applied Science Project

BIOLOGY MAJOR

Biology A Biology B Life on Earth A Life on Earth B Human Ecology and Global Change Global Change and Human Health Research Elective Project **Biology Course**

CHEMISTRY MAJOR

Chemistry 100 Chemistry 101 Synthetic Chemistry Structure Determination and Analysis Advanced Synthetic Chemistry Advanced Structure Determination and Analysis Molecules-to-Materials: Foundations for Nanochemistry

ECOSYSTEM SCIENCES MAJOR

Research Elective Project

Environment: A Human Perspective Biodiversity for the Environment Sustainable Ecosystems Ecology Environmental Interpretation and Community Engagement Environmental Conflict and Public Consultation Restoration Ecology Park and Ecotourism Management

MATHEMATICS MAJOR

Calculus 1 Calculus 2 Linear Algebra Fundamentals of Real Analysis Differential Equations 1 Mathematical Sciences Project Topics in Mathematics 1 Multivariable Calculus



Looking for alternative entry?

Preference a packaged Diploma in Science and the Environment/Bachelor of Science.

For more information, visit unisa.edu.au/college

SATAC code: 426064



Package this program with the Master of Teaching (Secondary) to become a science teacher.

Find out more at unisa.edu.au/become-a-teacher

SATAC code: 434101

Bachelor of Environmental Science

unisa.edu.au/enviro

| Mawson Lakes Campus | Intakes: Feb, Jul |
|------------------------------|--|
| On-campus | Real-world projects |
| 3 years full-time | |
| Selection Rank: cut-off 2020 | SATAC code |
| VET: Quaranteed entry | √ part-time study available √ honours available |

UniSA College pathways: Foundation Studies or Diploma in Science and the Environment Prerequisites: none

Assumed knowledge: none.

Build a career in environmental sustainability, exploring how humans interact with the environment and how we can best manage it. Study core courses in biology, soil science, ecology, conservation, geology and social sciences. Complete in-depth examinations in biological and earth sciences. Develop essential skills working with Geospatial Information Systems (GIS) to capture, analyse and manage spatial and geographic data. Choose a major study area to tailor your degree, including Ecology and Conservation, or Earth Science and Environmental Chemistry. Learn in a specialised immersive virtual environment on campus using Project LIVE visualisation technology, which transforms traditional classroom activities into interactive learning. Access cutting-edge digital imagery of local environments and the tools to process data and evaluate its meaning. Through this technology, you will become familiar with the latest digital imaging, mapping and spatial analysis techniques. Gain additional practical experience through hands-on field work and real-world projects. Continue your studies through the Master of Teaching (Secondary) to teach science up to Year 10 and environmental science to Year 12.

CAREERS

Environmental adviser / land management officer / sustainability officer / environmental consultant / ecologist / environmental scientist / environmental project officer / environmental strategy manager / environmental researcher / teacher (with further study)

To learn more about how to become a teacher, visit unisa.edu.au/become-a-teacher

YOU MIGHT ALSO LIKE

- Bachelor of Science
- Bachelor of Health Science (Public Health)
- Bachelor of Engineering (Honours) (Surveying)
- Bachelor of Secondary Education (Honours)

FURTHER STUDY

- · Bachelor of Science (Honours) one year
- Master of Environmental Science
- Master of Surveying
- Master of Teaching (Secondary)

DEGREE STRUCTURE

Biodiversity for the Environment Earth Systems Environment: A Human Perspective Introduction to Surveying and Spatial Sciences

Environmental Analytical Methods Spatial Data Acquisition and Analysis Environmental Chemistry Sustainable Ecosystems

Environmental Remote Sensing SECOND Environmental Interpretation and Community Engagement Engineering and Environmental Geology Ecology

> Web Cartography **Environmental Policy and Regulations** Sustainable Development: A Global Perspective Conservation Biology

ECOLOGY AND CONSERVATION MAJOR

THIRD

Environmental Conflict and Public Consultation Elective

Restoration Ecology Park and Ecotourism Management

Ecosystem Monitoring Elective Environmental and Geospatial Field Project

EARTH SCIENCE AND ENVIRONMENTAL CHEMISTRY MAJOR SECOND

Web Cartography Environmental Policy and Regulations Soils in the Australian Landscape Environmental Microbiology

YEAR

(SEMESTER 2)

THIRD (

YEAR

Environmental Conflict and Public Consultation Elective Farth and Landscape Evolution Environmental Pollution and Monitoring

Environmental and Geospatial Field Project

Ecosystem Monitoring



Looking for alternative entry?

Preference a packaged Diploma in Science and the Environment/Bachelor of Environmental Science.

For more information, visit unisa.edu.au/college

SATAC code: **426062**

Bachelor of Outdoor and Environmental Leadership



unisa.edu.au/enviro

| City East Campus | Intakes: Feb |
|--|-----------------------------|
| On-campus | Placement |
| 3 years full-time | |
| Selection Rank: cut-off 2020NEW quaranteed entry80.00 | SATAC code |
| VET: | √ part-time study available |
| quaranteed entryDip | √ honours available |

UniSA College pathways: Foundation Studies, Diploma in Health or Diploma in Science and the Environment

Prerequisites: none Assumed knowledge: none

Study the only degree of its kind in South Australia, combining the unique disciplines of outdoor leadership and environmental science. Graduate with diverse knowledge and skills across environmental leadership, social justice and sustainable living. Tailor your studies through a major or sub-major in areas such as Counselling and Interpersonal Skills, Indigenous Tourism, Biology or Environmental Systems. Study courses focusing on areas like biodiversity, sustainable ecosystems, caring for country, coastal environments and Earth systems. Benefit from over 400 hours of hands-on, practical experience in a variety of real-world settings. Continue your studies through the Master of Teaching (Secondary) to teach science up to Year 10, and biology or environmental science to Year 12.

Note: Students will be required to hold a current National Police Certificate and Department of Human Services (DHS) Working with Children Check

CAREERS

Outdoor education practitioner / community development officer / ecotourism guide / land and natural resources manager / outdoor activation coordinator / youth worker / sustainability adviser / teacher (with further study)

To learn more about how to become a teacher, visit unisa.edu.au/become-a-teacher

YOU MIGHT ALSO LIKE

- Bachelor of Human Movement
- Bachelor of Environmental Science
- Bachelor of Health Science (Public Health)

FURTHER STUDY

- Bachelor of Science (Honours) one year
- · Master of Environmental Science
- Master of Teaching (Secondary)
- · Master of Health Services Management
- · Master of Research (Health Sciences)

DEGREE STRUCTURE

Biodiversity for the Environment Earth Systems Environment: A Human Perspective Foundations of Outdoor Leadership Soils in the Australian Landscape Sustainable Ecosystems Caring for Country Introduction to Group and Team Psychology Coastal Environments Elective 1 Environmental Interpretation and Community Engagement Life on Earth A Life on Earth B Outdoor, Wilderness and Adventure Education Leadership in Terrestrial Environments

Leadership in Aquatic Environments THIRD Park and Wilderness Management 2 x Electives

Professional Practice in Outdoor Leadership Leadership in Recreation and Sport 2 x Electives

Bachelor of Science (Honours)

unisa.edu.au/science

| Mawson Lakes Campus | Intakes: Feb |
|---|------------------|
| On-campus | Research project |
| 1 year full-time | |
| Selection Rank: cut-off 2020n/a guaranteed entryn/a | SATAC code |
| VET: guaranteed entryn/a | |

Prereauisites: none

Assumed knowledge: none

Continue your studies through advanced coursework and research in a range of science disciplines through a one-year honours program. Explore areas such as nanomaterials and biomaterials, chemistry, applied physics, materials science, agricultural and food science, environmental science, earth science and ecology. Study courses in research methods, principles and ethics to prepare you for a major research project, which includes laboratory work and data collection and analysis. Develop an honours thesis and present your findings to academics, peers and relevant industry and government stakeholders. Access the multi-million dollar Materials and Minerals Science Learning and Research Hub on campus and work alongside research and industry experts at our Future Industries Institute. Graduate with a competitive advantage and a qualification that will broaden your career opportunities or prepare you for postgraduate study and research.

This program can lead to a variety of careers in the following areas: Product development / manufacturing / clinical trials / technology advancement / environmental consulting / parks and recreation minerals / agriculture

ENTRY REQUIREMENTS

- This program is available to students who have successfully completed a bachelor degree in a relevant discipline and have displayed a high level of academic achievement throughout their degree, typically a credit level average or above.
- Relevant disciplines typically include science, technology, engineering or environmental studies. Applicants with qualifications in other disciplines are encouraged to apply and will be assessed on a case-by-case basis.

FURTHER STUDY

- Master of Environmental Science
- Masters by Research
- · Doctor of Philosophy (PhD)

DEGREE STRUCTURE

Research Theory and Practice Advanced Topics in Science 1 OR YEAR Advanced Topics in Science 2 Honours Research Project 1 Honours Research Project 2 N



POSTGRADUATE AND RESEARCH **DEGREES**

Take your career to the next level and develop your knowledge further through postgraduate study.

You can also make a positive and lasting contribution to your field through a research degree.

> To explore our postgraduate degrees, visit unisa.edu.au/study

To learn more about our research degrees, visit unisa.edu.au/resdegrees

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Master of Cybersecurity

unisa.edu.au/IT

Mawson Lakes Campus intakes: Feb, Jul On-campus Commonwealth supported* 2 years full-time Real-world projects SATAC code 4CM207 √ part-time study available ..LMCY

*see page 28 for more information

Join a rapidly growing industry tasked with protecting critical IT infrastructure and information. Study technical topics such as network infrastructure, security operations, web and cloud security, and cybersecurity planning and compliance. Develop the leadership and negotiation skills needed to become a cybersecurity expert, and to manage cybersecurity projects and personnel. Explore cybersecurity defence strategies for complex environments, including penetration testing and presentation methods for communicating technical topics to broader audiences. Learn how to apply technical skills to organisational contexts with a focus on risk management and incident response. Gain valuable practical experience by completing a final-year cybersecurity exercise where you will devise and implement a defence strategy for a complex enterprise environment. Collaborate with our Innovation & Collaboration Centre, and access industry expertise in technology, design, business growth, management, marketing and commercialisation.

CAREERS

Security analyst / security software developer / cybersecurity specialist / system security engineer / cyber solutions architect / cybersecurity adviser / cybersecurity manager

ENTRY REQUIREMENTS

- · Entry to this program is competitive and will be assessed by the University.
- Applicants will typically have completed a bachelor degree in information technology with a Grade Point Average (GPA) of at least 5.
- Applicants who have completed a bachelor degree or higher in any discipline may also be considered for entry based upon their IT expertise gained through formal tertiary studies and/or relevant work experience.
- · Applicants may be required to attend an interview, either in-person or online.

YOU MIGHT ALSO LIKE

- Master of Data Science
- Master of Information Technology (Enterprise Management)

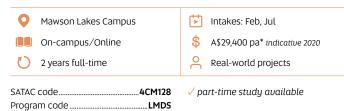
DEGREE STRUCTURE

IT Concepts Network Infrastructure Security Principles Security Operations Security Consultancy Network Security Operating Systems and Application Security Web and Cloud Security Digital Forensics Essentials Industrial Internet Security **Enterprise Security** Cybersecurity Planning and Compliance Security Architecture Capstone Professional Project

Master of Data Science

- Graduate Certificate in Data Science (LCDS)
- Graduate Diploma in Data Science (LGDS)

unisa.edu.au/IT



*see page 28 for more information

Enter the revolutionary field of big data where there is a growing demand for qualified data scientists. Learn how to find patterns, make meaning and draw value from large data sets, which can be applied across a wide range of industries and business environments. Build strong foundational skills in data and statistics such as data analytics, big data basics, statistical programming, and relational databases and warehouses. Learn to analyse and visualise rich data sources, spot data trends and generate data management strategies. Benefit from coursework designed in consultation with industry, including with the Institute of Analytics Professionals of Australia and the leader in analytics software and solutions - SAS. Complete a professional project in your final year, gaining practical experience in modern data techniques and practices. Take advantage of flexible learning options, including, part-time and online study.

CAREERS

Data scientist / big data visualiser / business intelligence analyst / information security analyst / social media analyst / customer insights analyst / data analyst / data engineer / research analyst

ENTRY REQUIREMENTS

- · Bachelor degree in information technology or mathematics from a recognised higher
- · Graduate diploma or graduate certificate in data science from a recognised higher

YOU MIGHT ALSO LIKE

- · Master of Cybersecurity
- Master of Information Technology (Enterprise Management)

SECOND

Master of Information Management (Archives and Records Management)

DEGREE STRUCTURE

Big Data Basics Statistical Programming for Data Science Select two of the following four courses: Statistics for Data Science Probabilities and Data

Relational Databases and Warehouses

Business Intelligence and Analytics

Predictive Analytics Unsupervised Methods in Analytics Research Methods Data Visualisation

Social Media Data Analytics Customer Analytics in Large Organisations

Data Science Professional Development

Advanced Analytic Techniques 1 Advanced Analytic Techniques 2 Capstone Professional Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Master of Information Technology (Enterprise Management)

- · Graduate Certificate in Information Technology (LCIG)
- Graduate Diploma in Information Technology (Enterprise Management) (LGIG)

unisa.edu.au/IT



*see page 28 for more information

Discover the latest trends and developments in information technology, coupled with contemporary business management practices. Designed for IT and other professionals, this program focuses on strategic stakeholder engagement, business intelligence and the management of complex information systems in global business settings. Study a range of theoretical courses covering universal IT practices, including areas like information systems, organisational transformation and business modelling, information governance, and project management. Tailor your studies through elective courses covering topics such as data and web mining, security operations, network infrastructure, commercial law, global business, marketing, accounting and people management. Complete a major project where you will work on a real-world issue or challenge within a structured team, applying modern IT and management techniques. Graduate with a qualification accredited by the Australian Computer Society. Benefit from flexible learning options, including part-time and online study.

CAREERS

Business and systems analyst / ICT manager / ICT network and support manager / solutions architect / ICT project manager / ICT portfolio manager / ICT test manager

ENTRY REQUIREMENTS

- Bachelor degree in any discipline from a recognised higher education institution; or
- Graduate certificate in information technology from a recognised higher education institution: or
- Graduate diploma in information technology from a recognised higher education

YOU MIGHT ALSO LIKE

- Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

Business Practices for IT Professionals Project Management for IT Professionals Professional Communication Business Intelligence and Analytics

Enterprise Systems using SAP Business Systems Analysis Elective 1

Security Principles SECOND Business Process Modelling IT Stakeholder Engagement Elective 2

Enterprise Architecture Information Governance Capstone Professional Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Master of Information Management

Degrees:

- · Master of Information Management (Archives and Records Management)
- Master of Information Management (Library and Information Management)

Nested with:

- · Graduate Certificate in Information Management (DCIL)
- Graduate Diploma in Information Management (Archives and Records Management) (DGIL)
- Graduate Diploma in Information Management (Library and Information Management) (DGIL)

unisa.edu.au/info-management

| 0 | City West Campus | \bar{\bar{\bar{\bar{\bar{\bar{\bar{ | Intakes: Jan, Mar, Jun, Sept |
|---|-------------------|--|------------------------------|
| | On-campus/Online | \$ | Commonwealth supported* |
| O | 2 years full-time | 2 | Placement |

| | Archives and Records Management | Library and Information Management |
|-------------|------------------------------------|---------------------------------------|
| ATAC code | 4CM135 | 4CM134 |
| rogram code | DMIL | DMIL |

Study one of South Australia's only information management qualifications and choose the specialisation that interests you most. In the Archives and Records Management program, you will develop the unique skills required for archiving and preserving information. In the Library and Information Management program, you will build the skills required of contemporary librarians and information officers. In both programs, you will gain practical experience through a real-world project and a two-week placement within a library setting. You will also benefit from a curriculum developed in collaboration with the State Library of South Australia and the State Records of South Australia. In final year, you can also choose to either complete a research project or a minor thesis. Take advantage of flexible learning options, including part-time and online study. Graduate with a degree accredited by the Records and Information Management Professionals of Australasia. Respective degrees are also accredited by the Australian Society of Archivists and the Australian Library and Information Association.

CAREERS

Depending on your chosen degree, your career options can include: Librarian / records manager / archivist / information management officer / preservation manager / collections manager / library manager / community programs coordinator / information management consultant

ENTRY REQUIREMENTS

- · Bachelor degree in any discipline from a recognised higher education institution; or
- Graduate diploma in information management from a recognised higher

YOU MIGHT ALSO LIKE

- · Master of Data Science
- Master of Information Technology (Enterprise Management)

DEGREE STRUCTURE

INDICATIVE OF LIBRARY AND INFORMATION MANAGEMENT PROGRAM

Information Management Professional Practice Technological Foundations Information Management Foundations Managing Collections Information Resources and Services Organising Resources Information Management Experience Reports

Select one of the following four courses:

- Digital Literacy
- · Reading and Readers' Advisory

Information Management Project

- Metadata
- · Information Advocacy

RESEARCH PROJECT

SECOND YEAR Research Methods Elective 1 Elective 2

ITMS Masters Research Project

Select three of the courses not already successfully completed:

- Digital Literacy
- Reading and Readers' Advisory
- Metadata
- · Information Advocacy

MINOR THESIS

Research Methods Elective 1 ITMS Masters Minor Thesis 1 YEAR ITMS Masters Minor Thesis 2

Select two of the courses not already successfully completed:

- Digital Literacy
- Reading and Readers' Advisory
- Metadata
- Information Advocacy

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

[√] part-time study available

^{*}see page 28 for more information

Master of Environmental Science

- Graduate Certificate in Environmental Science (LCES)
- Graduate Diploma in Environmental Science (LGES)

unisa.edu.au/enviro



| | 2 years | 1 year with Advanced Standing |
|----------------------------|---------|----------------------------------|
| SATAC code Program code | 4CM163 | 4CM200 LMEV |

Develop advanced and integrated knowledge in sustainability, natural resources and geospatial sciences. Designed for environmental scientists and managers, this qualification will help further your expertise in natural and water resources management. Explore the theory and practice of managing and sustaining our natural and built environment through core courses and advanced electives. Build your understanding of managing resources within a sustainability framework, applying systems thinking, spatial data management and analysis, and complex project management. Complete a major industry research project, focusing on a real-world issue or challenge. Engage with world-class researchers, including from the multi-million dollar Future Industries Institute on campus, to undertake a research project with a focus on water resources, ecology, soil sciences or environmental management.

CAREERS

Natural resource manager / environmental manager / environmental management consultant / environmental planner / sustainability adviser / environmental policy adviser / environmental scientist / project manager / researcher

ENTRY REQUIREMENTS

- Bachelor degree, graduate certificate or graduate diploma in a relevant discipline (typically including science, engineering, environmental studies or management) from a recognised higher education institution, or equivalent qualification.
- Some applicants may be eligible for Advanced Standing and can complete the program in one year of full-time study, or equivalent part-time study.
- Applicants with qualifications in other disciplines are encouraged to apply and will be

YOU MIGHT ALSO LIKE

- · Master of Engineering civil specialisations
- · Master of Surveying

DEGREE STRUCTURE

| FIRST YEAR | Arid Land Environments Valuing the Environment Elective 1 Elective 2 |
|-------------|---|
| | Community Partnerships Natural Resource Management |
| | Environmental Impact Assessment N Elective 3 |
| SECOND YEAR | Masters Research Theory and Practice Engineering and Environmental Masters Design Project Elective 4 |
| | NBE Masters Research Project Elective 5 Elective 6 |

Masters by Research Doctor of Philosophy (PhD)

| Masters by Research | Program codeLMIE | Ξ |
|----------------------------|------------------|---|
| Doctor of Philosophy (PhD) | Program codeLPHC |) |

Contribute to the progress of science and technology by investigating a topic of interest. Flourish in a technological hub of theoretical, applied and cross-disciplinary research. Benefit from links to our multi-million dollar Future Industries Institute located on campus, aimed at transforming the industries of today and seeding the futures of tomorrow. Learn alongside world-class supervisors on industry-based projects focused on meeting the challenges of modern enterprise.

DISCIPLINE AREAS

- Applied Physics
- Bioinformatics
- Biomaterials Engineering and Nanomedicine
- Civil Engineering
- Computer and Information Science
- **Construction Management**
- **Electrical Engineering**
- Energy and Advanced Manufacturing
- **Environmental Science**
- **Environmental Science and Engineering**
- Geographic Information Science
- Information and Communication Technology
- Mathematics
- Mechanical Engineering
- Minerals and Resources
- Project Management
- Statistics
- Systems Engineering

ENTRY REQUIREMENTS

Masters by Research

- Bachelor degree of at least three years in a relevant discipline with a minimum credit
- Honours 1, Honours 2, Honours 3 or an appropriate master's degree or equivalent qualification; or
- No tertiary qualifications (some discipline areas only) with demonstration of research capabilities via assessment of relevant quality publications and professional experience.

Doctor of Philosophy (PhD)

Honours 1, Honours 2A, or an appropriate master's degree or equivalent qualification.

Alternative entry

Other postgraduate and undergraduate degrees may be considered for admission into the Masters by Research or Doctor of Philosophy (PhD) with demonstration of research capabilities via assessment of relevant quality publications and professional experience.

Eligibility for entry into a research degree is also subject to an assessment of the proposed research, supervisor availability, and any University or research-specific eligibility requirements.

[√] part-time study available

^{*}see page 28 for more information

TUDY AT UNISA — THE BASI

Minimum entry requirements for undergraduate degrees

APPLYING WITH YEAR 12

Applicants are required to have successfully completed the South Australian Certificate of Education (SACE) with:

- a competitive Selection Rank (ATAR) including adjustment factors: AND
- the fulfilment of the program's prerequisite requirements (where applicable).

Applicants may also be eligible to compete for entry if they have completed the program's prerequisite requirements and have completed one of the following:

- an interstate or overseas qualification considered by the University as equivalent to SACE; or
- the International Baccalaureate Diploma with a minimum score of 24 points.

For some degrees, applicants who have not achieved the Selection Rank (ATAR) required for automatic selection into their preferred degree may be selected for any remaining places based on the grades of their Year 12 subjects.

ADJUSTMENT FACTORS

Universities in South Australia include ATAR-related adjustment factors (previously known as bonus points) for Australian high school students applying for entry into university via the following schemes:

- The Universities Equity Scheme provides additional points for students coming from specified schools, as well as individuals experiencing socio-economic disadvantage.
- The Universities Language, Literacy and Mathematics Adjustment Scheme – provides additional points for students who successfully complete a language other than English, or specified English and Mathematics subjects.

unisa.edu.au/adjustmentfactors

GUARANTEED ENTRY

UniSA offers guaranteed entry into many programs for domestic Year 12 and VET students. If your Selection Rank (ATAR) or VET award meets the UniSA Guaranteed Entry score for that program, you have met the prerequisites and any other program specific entry requirements, and you have listed the program as your first preference, you are in. It's guaranteed. Please note application timelines may apply.

unisa.edu.au/guaranteed

ADMISSIONS PATHWAYS

Entering your chosen program straight from high school is not the only pathway into UniSA. Applicants may also meet the minimum requirements to apply for entry (via competitive selection) through one of the following:

Higher education study – completion of at least half a year of full-time equivalent study at UniSA or a recognised higher education institution. You can apply using your Grade Point Average (GPA)

Higher education diploma – completion of a higher education diploma from UniSA College (applicable programs listed on each bachelor program in this guide), the South Australian Institute of Business and Technology (SAIBT), or another recognised higher education institution.

Special entry - a competitive Special Tertiary Admissions Test (STAT) score. A personal competencies statement or relevant employment experience may also be considered for some programs.

Vocational Education Training (VET) applicants may be eligible for entry with the completion of an award from TAFF or another Registered Training Organisation at AOF Certificate IV or above

UniSA College - there are a variety of pathway options offered through UniSA College, including diplomas and the Foundation Studies program.

Alternative education providers -

there are a range of alternative pathways including bridging qualifications offered through SAIBT and Eynesbury.

Open Universities Australia - completion of at least four Open Universities Australia (OUA) courses at an undergraduate level or higher. unisa.edu.au/pathways

BEFORE APPLYING

All applicants should check and ensure that they meet all entry and prerequisite requirements before applying. For more information on entry requirements, visit: unisa.edu.au/study

SUPPORT SERVICES

UniSA offers a full range of support services, including career advice, disability and inclusion services, and counselling. For more information, contact (08) 8302 2376 or visit: unisa.edu.au/studentservices

SCHOLARSHIPS

UniSA offers a range of scholarships and grants to support students from all walks of life. Each year, 2,500 students benefit from scholarships at UniSA, providing financial assistance as well as valuable work experience, mentoring opportunities and even overseas travel. For more information and to check the eligibility criteria, visit:

unisa.edu.au/scholarships

HOW TO APPLY

Applications to most programs at UniSA are administered through the South Australian Tertiary Admissions Centre (SATAC). For more information, visit: unisa.edu.au/applu

For UniSA Online degrees apply directly at, unisaonline.edu.au

FEES

All domestic undergraduate students at the University of South Australia are in Commonwealth-supported places. Students in these places pay a contribution of their fees depending on the program chosen and the contribution band in which those courses are classified (see table below). The amount of your student contribution also depends on the unit value of your courses of study.

As per the Australian Government guidelines, the student contribution amounts for 2020 are:

| BAND | AREA OF STUDY | STUDENT CONTRIBUTION For one year of full-time load (1 EFTSL) | STUDENT CONTRIBUTION For each subject (0.125 EFTSL) |
|------|---|--|--|
| 1 | Humanities, behavioural science, social studies, foreign languages, visual and performing arts, clinical psychology, nursing and education. | \$6,684 | \$835 |
| 2 | Computing, built environment, health, engineering, surveying, agriculture, mathematics, statistics and science. | \$9,527 | \$1,190 |
| 3 | Law, dentistry, medicine, veterinary science, accounting, administration, economics and commerce. | \$11,155 | \$1,394 |

*Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying; this is listed on applicable programs. For programs under 1.0 year full-time study, fees are listed as the whole program fee (indicative of 2020). For programs over 1.0 years full-time study, fees are listed based on the cost per annum (indicative of 2020). For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution through HECS-HELP or FEE-HELP loans, please visit: unisa.edu.au/fees

Need some help? Contact Future Student Enquiries on (O8) 83O2 2376 or at unisa.edu.au/enquire



Get cultured – expand your thinking and see the world through a student exchange program.



Pridham Hall – discover the new heart of the University, featuring a graduation space, sports centre, gym and swimming pool.



UniSA Sport – keep active and make lasting friendships by joining one of our sporting teams.



Events on campus – participate in a wide range of events and activities on campus throughout the year.



MOD. – explore this on-campus futuristic museum of discovery, offering immersive experiences.

Your student experience

Orientation is the start of your journey at university. Explore your campus, meet new people, get study advice, and enjoy different activities and entertainment.

Campus Central are the on-campus gurus for ID cards, enrolment, fees and student services.

Support services are available to you throughout your time at university, including study support, personal counselling and peer mentoring, along with access to a range of community health clinics located on campus.

USASA is your student association at UniSA. They provide advocacy services, organise social activities and coordinate over 100 student clubs.

UniSA+ can provide you with a range of leadership, entrepreneurial, volunteering and self-development opportunities during your degree.

Student lounges provide you with a space to study or chill out, featuring work spaces, kitchen facilities, mobile charging stations, social spaces, lockers, gaming stations and more.

Food vendors and café-style dining facilities are now open at all UniSA campuses, including Honki Tonki, Zambrero, Abbots and Kinney and more.

UniSA Sport has over 25 sporting clubs, including rowing, netball, gridiron, rock climbing and so much more. You can also gain access to fully-equipped gym facilities on all metro campuses.

Accommodation services are available to help you set up a home away from home.

24-hour security services are available on campus and the free SafeZone app is available for download through the App Store or Google Play.



We will be hosting a series of online events so you can learn more about studying with UniSA. Listen to presentations, discover different degrees and careers, and connect with current students and academic staff.

For more information, visit unisa.edu.au/infosessions

SCHOOL HOLIDAY TOURS

We also offer campus tours during the school holidays. Make an online booking at unisa.edu.au/campustours



MyCareerMatch is a free personality and career profiling tool that you can complete before you start university. Contact Future Student Enquiries on (08) 8302 2376 or at unisa.edu.au/enquire



ATAR > DEGREE FINDER

Go online and check out our new ATAR > Degree Finder, to explore which degrees you may be eligible for using your Selection Rank. unisa.edu.au/atar-degree-finder



Australia's University of Enterprise

unisa.edu.au

Telephone: (08) 8302 2376 Make an enquiry: unisa.edu.au/enquire













UniSA respects the Kaurna, Bunganditj and Bangarla peoples' spiritual relationship with their country.

Find out more about the University's commitment to reconciliation at unisa.edu.au/RAP

Artist: Ngupulya Pumani

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For information specific to international students, please visit unisa.edu.au/international