



University of
South Australia

2023 INFORMATION TECHNOLOGY, MATHEMATICS AND SCIENCE

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

YOUR FUTURE, GUARANTEED

We're here to back you. That's why we have a few ways to guarantee your place at UniSA.



Make us your first preference

+



Achieve the required Year 12 subject grades

or



Achieve the guaranteed Selection Rank score

or



Achieve the guaranteed TAFE/VET qualification

That's it. You're automatically in.

Learn more and check out UniSA's Guaranteed Entry calculators



#1 IN SA FOR GRADUATE CAREERS

Compared (QILT) Graduate Outcomes Survey 2019-21 – Full-time Employment Indicator (Undergraduate). Public SA-founded universities only.

Thomas Lake, UniSA Software Engineering Graduate / Software Engineer, Kineo.

Some degrees also have prerequisites and other eligibility criteria for entry that you'll still have to meet. Year 12 subjects need to be 20-credit Stage 2 Tertiary Admission Subjects (TAS). Students also need to achieve a minimum ATAR of 50.

A NEW REALITY AWAITS

Nicholas Azzollini and Shurui Yi, UniSA Mathematics (Data Science) graduates.

Explore the infinite possibilities of information technology, mathematics and science, and their range of applications across different industries and careers. Build practical and theoretical knowledge across diverse fields like data science, networking and cybersecurity, mixed reality, software development, industrial mathematics, defence, artificial intelligence, games, science, environmental science and sustainability. Shape the answers to the questions of tomorrow and prepare for an unstoppable career 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



IT Collaboration Studio



#1 FOR GRADUATE CAREERS IN IT

ComparED (QILT) Graduate Outcomes Survey 2018-20, Computing and Information Systems – Full-time Employment Indicator (Undergraduate). Public SA-founded universities only.

BE IN HIGH DEMAND

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.

DO THE MATHS

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'll apply specialist knowledge to an industry problem.

NEW REALITIES

Did you know that you can explore the emerging field of augmented reality through your IT degree at UniSA? This developing 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 one of the largest augmented reality research and development facilities in the Southern Hemisphere – the Australian Research Centre for Interactive and Virtual Environments (IVE).

EXCELLENCE IN IT

UniSA is home to five award-winning IT Research Fellows. They're active members of our research centres and their research findings are directly linked to what you'll learn in the classroom. Their expertise spans cybersecurity, including threat intelligence and software engineering, human-centred computing, artificial intelligence and virtual and augmented reality. They're both locally and globally engaged in industries such as healthcare, defence, child protection and construction.

WHAT'S INDUSTRY SAYING?



"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

SECURE YOUR FUTURE

UniSA has partnered with Optus to establish a Cyber Security Research and Collaboration Hub at Lot Fourteen. It's all about driving new innovations in technology and providing the best education for Australia's next cybersecurity and data science professionals – and you can be part of it. Our digital interactions generate a digital footprint, providing insight into our online behaviours, preferences and trends. Cybersecurity and data science professionals are needed to help analyse digital trends and protect infrastructure in the current climate of escalating cyber attacks.

OPTUS



TOP 15 IN AUSTRALIA FOR COMPUTER SCIENCE

Ranked #11, 2022 THE Subject Rankings.



#1 IN SA FOR GRADUATE EMPLOYABILITY

2021 QILT Employer Satisfaction Survey – Graduate Employability Skills Indicator.

TEST WHAT'S POSSIBLE

Get real industry experience that will prepare you for your future career in STEM. Complete laboratory and field work throughout our science and environmental science degrees or collaborate with local and international companies to solve real-world challenges in IT or mathematics. You'll also have access to our recently constructed Industry 4.0 Testlab facilities on campus, which supports new innovations in the rapidly growing defence and space industries.

LEARN WITH SMART TECHNOLOGY

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 South Australian coastline to satellite monitoring of ice sheet stability in Antarctica, Project LIVE provides a hands-on experience of digital imaging, mapping and spatial analysis.

A SUCCESSFUL START

Accelerate your ideas and launch a startup business with in-house support from UniSA's Innovation & Collaboration Centre (ICC). The ICC has a renowned incubator service, which gives students access to office space, mentoring, internships with startups, community events and an ecosystem of like-minded entrepreneurs. Our Student2Startup events are a regular feature on the ICC calendar, with the sole purpose of connecting students to leading industry experts and startup founders.

icc.unisa.edu.au



#1 IN SA FOR STUDENT SATISFACTION IN MATHS AND SCIENCE

ComparED (QILT) Course Experience Questionnaire 2019-20 – Overall Satisfaction Indicator (Undergraduate). Public SA-founded universities only.



WORLD HERITAGE BID

People can now become virtual tourists of the iconic Flinders Ranges thanks to UniSA. They'll be 'teleported' into the deep past through an immersive virtual tour documenting the geoscientific significance of this 600-million-year-old landscape.

Sir David Attenborough has named it one of his favourite places on Earth and now the South Australian Government has teamed up with UniSA in a bid for World Heritage Status.

The 360-degree tour takes viewers on a journey through deep geological time.

Its scale and grandeur will be revealed by 3D fly-throughs providing a bird's-eye view of Ikara (Wilpena Pound). Users will see how a giant asteroid slammed into South Australia 580 million years ago, have the chance to explore Paralana Hot Springs and Mount Gee and go deep underground at the Blinman Heritage Mine.

Field work is crucial to learning in science, with virtual reality seeing our students extend their skills beyond the locations they can physically attend. Through immersive virtual environments, traditional classroom activities are transformed into interactive learning experiences.

unisa.edu.au/projectlive



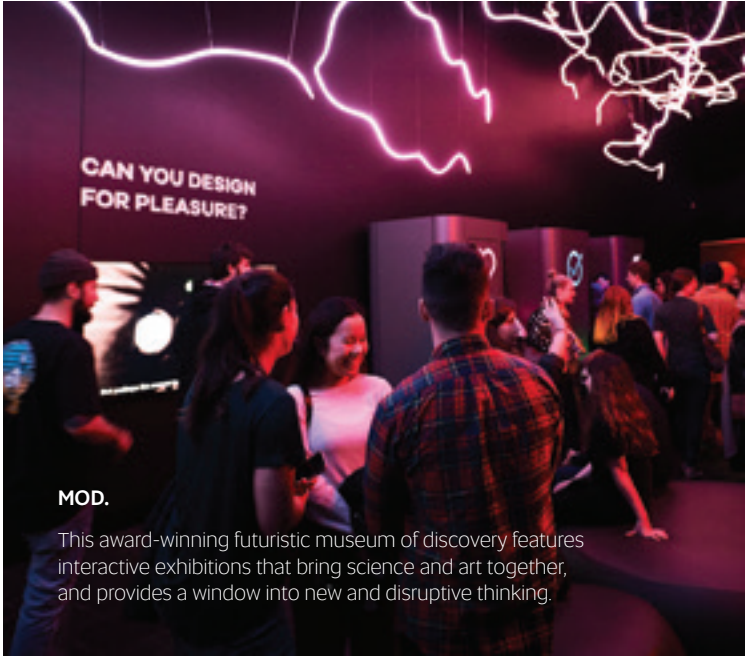
UniSA Women in STEM Club students, Nicola Higgins and Bethany Caldwell.



Hansani Thanippuli Kankanamalage, UniSA PhD Candidate in Mathematics and Statistics.

LEADING IN RENEWABLES

Mawson Lakes Campus is home to our science degrees and is also the perfect backdrop to showcase our steps to a greener future. It boasts its own solar power research field and has more than 5,300 solar panels, generating approximately 2,500 megawatt-hours of electricity and reducing around 1,275 tonnes of carbon dioxide emissions every year.



MOD.

This award-winning futuristic museum of discovery features interactive exhibitions that bring science and art together, and provides a window into new and disruptive thinking.



#1 IN SA FOR GRADUATE CAREERS IN MATHS AND SCIENCE

ComparED (QILT) Graduate Outcomes Survey 2018-20 – Full-time Employment Indicator (Undergraduate). Public SA-founded universities only.

MEET YOUR TEACHER



"It's a real positive that all students undertake field work and learn in a hands-on way. They learn by doing and are exposed to the natural environment in a range of different contexts. Students get to see science in action in the real world, visiting sites both locally and internationally."

Associate Professor Tom Raimondo | Professorial Lead: Geology and Geochemistry



#1 IN SA FOR TEACHING QUALITY

ComparED (QILT) Student Experience Survey 2019-20 (Undergraduate and Postgraduate). Public SA-founded universities only.

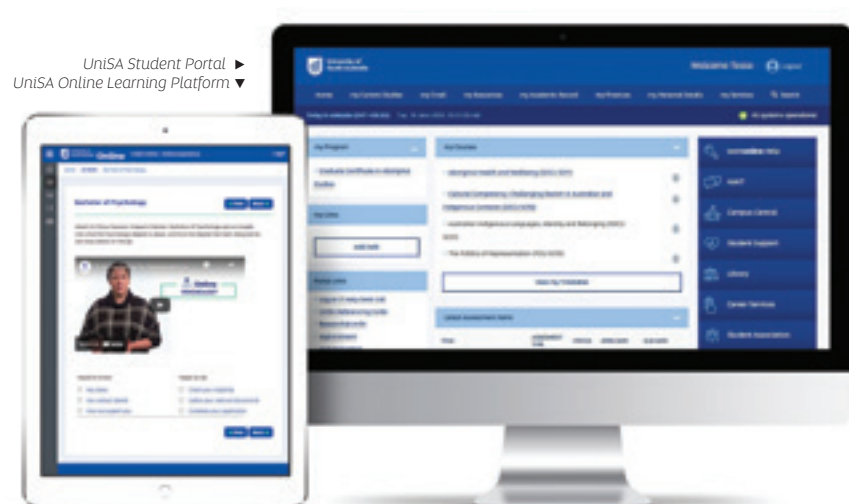
YOUR CAMPUS

YOUR HOME
CAMPUS IS
MAWSON
LAKES

ON-CAMPUS
PARKING
AVAILABLE
FOR LESS THAN
\$2 A DAY

VIRTUAL CAMPUS

We're one of Australia's largest online education providers, giving our students more choice when it comes to flexible learning. You can study fully online or through a blended mode. Our virtual campus is supported by custom online learning platforms using the latest industry software.



TAKE A VIRTUAL CAMPUS TOUR

unisa.edu.au/virtualcampustours



PROJECT LIVE / Learn through immersive virtual environments using the latest visualisation technologies that transform traditional classroom activities into interactive learning.



VR & AR TECHNOLOGY / Explore the world through a new reality with access to the latest augmented and virtual reality technologies during your studies.



SET YOUR SIGHTS HIGH / Did you know that our Mawson Lakes Campus is home to the Adelaide Planetarium? You can voyage through outer space and marvel at projections of the sun, moon, planets and more than 5,000 stars in a dome-shaped artificial night sky from the comfort of your own seat. It's open to the public and is a great space for all astronomy buffs!



INDUSTRY 4.0 TESTLAB / A practical laboratory where new industry practices come to life, including 3D printing, industrial-scale manufacturing, and virtual and augmented realities.



**#1 IN SA FOR
CAMPUS FACILITIES**

ComparED (QILT) Student Experience Survey 2019-20 – Learning Resources Indicator (Undergraduate and Postgraduate). Public SA-founded universities only.

BE UNSTOPPABLE

with Australia's University of Enterprise

PRACTICAL LEARNING

We offer more than 200 world-class degrees across a wide range of study and career areas. You'll learn in a highly practical environment with a focus on real-world applications. You can also take the opportunity to complete an internship or placement during your studies, learning from experts and building work-ready skills.

TOP RANKING TEACHERS

Make your study experience relevant by learning from highly qualified academics and industry professionals with curriculum informed by the latest insights and trends. In fact, we're ranked number one in South Australia (QILT: Student Experience Survey) and amongst the best young universities in Australia (THE Young University Rankings) for teaching quality.

GET CONNECTED WITH OUR INDUSTRY PARTNERS...



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 to the workplace. This includes state-of-the-art laboratories, community clinics, creative studios, collaborative learning areas 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 during your studies and build your professional networks before you graduate.

GLOBAL OPPORTUNITIES

Become a UniSA Global Citizen through a range of overseas opportunities and virtual international experiences. You can travel and complete a student exchange, short-term program, internship, volunteering opportunity or study tour. Or, you can develop your cultural intelligence through interactive online learning, including virtual project work.

International travel is subject to Australian Government guidelines.

REAL RESEARCH

Our research is inspired by challenges. We produce new knowledge that provides real solutions for industry, businesses and the wider community. You'll even explore new concepts and findings in your chosen degree, influenced by our world-class research outcomes.

UniSA ACCELERATE

You can kickstart your UniSA business degree early through the UniSA **ACCELERATE** program. Study up to two courses through UniSA Online while you're in Year 12 and guarantee your place into one of our many business degrees with study credit. You can also choose to count this study towards your SACE Stage 2.

unisa.edu.au/accelerate

LEARN A LANGUAGE

Develop the skills you need to work internationally 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

GET CAREER READY

As a UniSA student, you'll have full access to the Career Services team. Their job is to get you career ready before you graduate. They lead a career development program, have active job boards, host workshops and produce online resources – like templates for creating awesome resumes. You can also connect with a career adviser, attend industry events or visit them on campus for on the spot advice.

unisa.edu.au/careers

MyCareerMatch

Complete a free personality and career profile before you start university to see what jobs might be best for you. Contact Future Student Enquiries on (08) 8302 2376 or at unisa.edu.au/enquire



#1 IN SA FOR STUDENT SATISFACTION

ComparED (QILT) Course Experience Questionnaire 2020-21 – Overall Satisfaction Indicator (Undergraduate). Public SA-founded universities only.




COLLABORATING WITH 2,500+ COMPANIES WORLDWIDE

STUDY ON DEMAND WITH UniSA ONLINE



Degrees designed specifically for online learning



Assessments are 100% online




Four start dates per year (Jan, Apr, Jun, Sep)




Learn in 10-week blocks



24/7 access to learning resources



Flexible around your life



Credit for previous study and relevant work experience



Scholarships and grants available



Explore our range of 100% online career-focused degrees across a range of areas. All UniSA Online degrees have been designed specifically for online learning, so you can study on your schedule and on your terms.

- Associate Degree in Engineering
- Bachelor of Accounting
- Bachelor of Business (Financial Planning)
- Bachelor of Business (Human Resource Management)
- Bachelor of Business (Management)
- Bachelor of Business (Marketing)
- Bachelor of Communication
- Bachelor of Community Health
- Bachelor of Construction Management
- Bachelor of Construction Management (Honours)
- Bachelor of Criminal Justice
- Bachelor of Data Analytics
- Bachelor of Digital Business
- Bachelor of Digital Media
- Bachelor of Health Science
- Bachelor of Health Science (Healthy Ageing)
- Bachelor of Health Science (Nutrition and Exercise)
- Bachelor of Information Technology
- Bachelor of Marketing and Communication
- Bachelor of Psychological Science and Sociology
- Bachelor of Psychology
- Bachelor of Public Health
- Diploma in Aged Care
- Undergraduate Certificate in Aged Care

SUPPORT SERVICES

UniSA Online provides personalised support services over extended hours – including on weekends – so you can get help when you need it. Whether it's for assignments, referencing, administrative or technical support, you'll have access to a team ready to assist you every step of the way.

- Access online academic support seven days a week
- Connect with a dedicated Student Adviser
- Access tech support 24/7

unisaonline.edu.au



Did you know?

As a UniSA Online student you still have full access to the facilities, resources, events and support services available across all of our campuses.



UPSKILL IN 10 WEEKS

You can study a single course 100% online over 10 weeks to upskill in an area that interests you most or to gain new knowledge that employers are looking for. Explore areas like accounting, marketing, data analytics, psychology and digital design. You can even get study credit towards a full degree.



LINK YOUR LEARNING

UniSA has teamed up with LinkedIn as its exclusive Asia Pacific pilot partner to provide students with the opportunity to complete LinkedIn Learning courses that can be counted towards their UniSA degree. This is a great way to upskill in unique areas like graphic design, data analytics and project management.



BECOME A DIGITAL BUSINESS LEADER

UniSA has partnered with global powerhouse, Accenture, to co-develop the Bachelor of Digital Business. You'll learn from academic and industry leaders, building the knowledge you need for today and tomorrow, including emerging digital skills that align with Australia's strategic workforce needs. Working on real case studies, you'll connect with some of Accenture's biggest clients and graduate prepared to address modern business challenges.



MAP YOUR IT CAREER

We offer a wide range of IT degrees and specialisations, so you can choose a study path that will help you get the career you want.

START HERE...



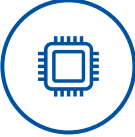
I like problem solving, analysing IT vulnerabilities and developing network security.



I like complex computing systems and designing new software for defence and enterprise.



I like IT, but not sure which area.



I like how IT is applied to business settings.



I like improving the way people interact with technology.



I like collaborating with designers, creating simulations, and gaming.



I like mathematics and applying that to solve problems.



I like coding, testing, debugging software and interpreting customer requirements for IT solutions.



CAREERS

Network administrator • cyber security analyst • system administrator • virtualisation engineer



Software engineer • software and applications programmer • agile developer • web developer



Business analyst • analyst programmer • user interface designer • network administrator • system administrator



Business analyst • IT manager • system administrator



Android/iOS applications developer • software applications programmer • analyst programmer • cloud developer • web developer • SCRUM developer • front/back-end developer



Game developer • mobile games developer • game programmer • simulation developer • asset creator • software developer • SCRUM developer



Big data visualiser • data scientist • big data researcher • data miner



Software developer • analyst programmer • cloud developer • web developer • SCRUM developer • front/back-end developer



DEGREES TO GET YOU THERE

Bachelor of Information Technology
(Networking and Cybersecurity)
See page 18

Bachelor of Software Engineering (Honours)
See page 21

Bachelor of Information Technology
See page 15

Bachelor of Information Technology +
choose a business minor
See page 15

Bachelor of Information Technology
(Mobile Application Development)
See page 17

Bachelor of Information Technology
(Games and Entertainment Design)
See page 16

Bachelor of Mathematics (Data Science)
See page 23

Bachelor of Information Technology
(Software Development)
See page 19

REAL-WORLD EXPERIENCE

We want you to be workplace ready, so through a Bachelor of Information Technology at UniSA, second year students may be offered a paid six-month internship with DXC Technology in Adelaide – one of the largest technology companies in the world. You'll be mentored by industry experts, work on large IT projects and use this as part of your assessment.



ICT PROJECT

IT students can put their skills into practice through our ICT Capstone Project. Typically completed in final year, you'll work with an industry partner or client on a real-world challenge. This could include the application of new technologies, developing proof of concept solutions, and analysing current business processes and areas for improvement. There are also dedicated learning hubs on campus where you can connect and collaborate, giving you the full workplace and project experience.

UniSA MATHS CLINIC

This is the only program of its kind in Australia and is open to final year maths, statistics and IT students. You'll be tasked with a project that requires mathematical solutions to achieve success. The project will simulate a real workplace experience with key deliverables, deadlines and specifications, so that you can develop your technical knowledge as well as teamwork, networking, project management and leadership skills.

UNDERGRADUATE DEGREES

Your tertiary learning and career starts with undergraduate study.

Explore our 200+ world-class degrees
unisa.edu.au/study

Learn more about how to apply
unisa.edu.au/apply

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Published Selection Rank scores are indicative of February 2022 cut-offs. Guaranteed Entry for Year 12 Subject Grades are reflective of the top three, 20-credit Stage 2 Tertiary Admission Subjects (TAS). Students also need to achieve a minimum ATAR of 50 and meet any prerequisites or other eligibility criteria.



UniSA GUARANTEED ENTRY CALCULATORS
Explore your guaranteed entry options using your Year 12 subject grades, Selection Rank or VET qualification.
unisa.edu.au/guaranteed






YOUR FUTURE IN IT

UniSA's IT and software engineering degrees share common first year courses. That means, you'll study the fundamentals of IT before exploring your chosen specialisation in one of the following areas from second year:

- Information Technology
- Games and Entertainment Design
- Mobile Application Development
- Networking and Cybersecurity
- Software Development
- Software Engineering

Bachelor of Information Technology

unisa.edu.au/IT

	Mawson Lakes Campus		
	On-campus/online		Intakes: Feb and Jul
	3 years full-time		Real-world projects

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies or Diploma in Information Technology
SAIBT pathways: Diploma of Information Technology

SATAC code	434041	Program code	LBCP
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed 66.00	guaranteed B, B, B	guaranteed	Dip
cut-off 2022 67.90		cut-off 2022	CIV
Part-time study available Honours available			

Choose two IT minors from areas like Software Development, 3D Animation, Cybersecurity, Visual Effects, Mobile Applications, Networking, Data Analytics and Games.
Or, choose one IT minor and one cross-disciplinary minor from areas like Digital Media, Innovation and Entrepreneurship, Marketing, Accounting or Management.

Enjoy this highly flexible degree offering you the chance to explore a range of interest areas. Develop a solid foundation in database development, networking, programming fundamentals and systems analysis and design. Tailor your studies by choosing specialisations in line with your career aspirations. Select two IT minors from areas such as Software Development, 3D Animation, Cybersecurity, Visual Effects, Mobile Applications, Networking, Data Analytics and Games. Or, choose one minor in a complimentary discipline like Digital Media, Innovation and Entrepreneurship, Marketing, Accounting or Management. You'll benefit from our partnerships with industry through opportunities for placements and industry projects. Second year students may be offered a six-month paid internship where you'll be mentored by industry experts. It may also be used as part of your assessment. In final year, the ICT Capstone Project may see you working directly with an industry client. You'll complete a series of collaborative, work-integrated courses to reinforce the concepts learnt in the classroom. You'll graduate with a degree accredited by the Australian Computer Society.

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

Business analyst · analyst programmer · user interface designer · network administrator · system administrator
Career progression can lead to:
IT manager · IT project manager · IT consultant · IT solution specialist · UX consultant

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology – various specialisations
- 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






FIRST YEAR	THIRD YEAR
Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	Security Foundations Big Data Concepts Minor Course Minor Course
Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio	Elective Minor Course Minor Course ICT Capstone Project
SECOND YEAR	
System Design and Realisation System Design Studio Minor Course Minor Course	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 unisa.edu.au/msm
Agile Development and Governance Project Studio Minor Course Minor Course	



LOOKING FOR ALTERNATIVE ENTRY?
Preference a packaged Diploma in Information Technology/Bachelor of Information Technology.
SATAC code: 426061
unisa.edu.au/college

Bachelor of Information Technology (Games and Entertainment Design)

unisa.edu.au/IT

	Mawson Lakes Campus		
	On-campus/online		Intakes: Feb and Jul
	3 years full-time		Real-world projects

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies or Diploma in Information Technology
SAIBT pathways: Diploma of Information Technology

SATAC code		434881		Program code		LBCP	
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:			
guaranteed		66.00		guaranteed		B, B, B	
cut-off 2022		68.70		cut-off 2022		CIV	

 Part-time study available  Honours available

Balance technical skills with creativity to pursue a career in the technology industry. Develop your ability to design and program games, pitch your ideas and take them to market. Benefit from our partnership with video gaming giant, Epic Games, makers of the world’s most popular and widely used game engine, *Unreal*. Study core courses that will give you a strong foundation in IT fundamentals, including networking, database development, programming and systems analysis and design. Then complete specialised courses in computer graphics programming, multimedia design and information visualisation. Key topics include Unreal game engine, Unity game engine, game asset creation, game design, mobile game development and 3D graphical production. You’ll also have the chance to apply technical skills and creativity to wider productions, software and interfaces studying software development tools, user experience and programming. Complete a unique series of collaborative, work-integrated courses in a supportive practice environment. In final year you’ll put your skills into practice through our ICT Capstone Project, drawing on your technical expertise and applying professional skills in a real-world setting. Graduate with a degree accredited by the Australian Computer Society and the skills in-demand by the gaming industry, as well as other sectors, including film and television, health, education and defence.

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 developer · mobile games developer · game programmer · simulation developer · asset creator · software developer · SCRUM developer

Career progression can lead to:

Game designer · studio lead · game producer · lead game developer

YOU MIGHT ALSO LIKE

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

FURTHER STUDY






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

DEGREE STRUCTURE

FIRST YEAR	Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	THIRD YEAR	Security Foundations Android Games Development Design Patterns with C++ Operating Systems and Tool Chains
	Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio		Elective Small Business for Professionals Game Engines ICT Capstone Project
SECOND YEAR	System Design and Realisation System Design Studio Game Asset Design Data Structures Essentials Agile Development and Governance Project Studio Game Design Big Data Concepts	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		
	On-campus/online		Intakes: Feb and Jul
	3 years full-time		Real-world projects

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies or Diploma in Information Technology
SAIBT pathways: Diploma of Information Technology

SATAC code		434091		Program code		LBCP	
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:			
guaranteed		66.00		guaranteed		B, B, B	
cut-off 2022		73.80		cut-off 2022		CIV	

 Part-time study available  Honours available

Build a dynamic career as a mobile app developer. Gain the technical knowledge and specialist software skills to design your own apps for various platforms. Influence how people interact with social networks, entertainment, e-commerce, and information sourcing and sharing. Learn techniques for pitching your ideas to potential investors. Study core courses that will give you a solid foundation in IT fundamentals including networking, database development, programming and systems analysis and design. You’ll then complete specialised courses that will see you studying IOS Enterprise Development, Design Patterns with C++, Agile Development and Governance, Android Games Development and Cloud and Concurrent Programming. You’ll also complete a unique series of collaborative, work-integrated courses in a supportive practice environment. In final year you’ll put your skills into practice through our ICT Capstone Project, drawing on your technical expertise and applying professional skills in a real-world setting. You’ll graduate highly trained in ICT, with a degree accredited by the Australian Computer Society, and the expertise to pursue a career in the specialist area of mobile applications.

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

Android/iOS applications developer · software applications programmer · analyst programmer · cloud developer · web developer · SCRUM developer · front/back-end developer

Career progression can lead to:

Team leader · software/solution architect · integration specialist · IT consultant

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology (Games and Entertainment Design)
- 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

FIRST YEAR	Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	THIRD YEAR	Security Foundations Small Business for Professionals Design Patterns with C++ Android Games Development
	Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio		Elective Big Data Concepts Cloud and Concurrent Programming ICT Capstone Project
SECOND YEAR	System Design and Realisation System Design Studio Operating Systems and Tool Chains Data Structures Essentials Agile Development and Governance Project Studio Web Technology IOS Enterprise Development	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		
	On-campus/online		Intakes: Feb and Jul
	3 years full-time		Real-world projects

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies or Diploma in Information Technology
SAIBT pathways: Diploma of Information Technology

SATAC code		434891		Program code		LBCP	
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:			
guaranteed		66.00		guaranteed		B, B, B	
cut-off 2022		66.70		cut-off 2022		CIV	

-  Part-time study available
-  Honours available

Develop the knowledge and practical skills needed to identify, analyse and mitigate risks in the management of a secure network. Focus on the security of business information systems in small to large enterprises. Gain an understanding of network topologies and devices, such as routers and firewalls. Learn to support a network roll-out and ongoing maintenance of infrastructure. Experience the latest industry software and technology. Study core courses that will give you a solid foundation in IT fundamentals including networking, database development, programming and systems analysis and design. Go on to complete specialised courses in networking and cybersecurity covering areas such as systems administration and design; network architecture and security; digital forensics and electronic discovery; and cloud, virtualisation and storage. You'll also complete a unique series of collaborative, work-integrated courses in a supportive practice environment. Benefit from our well-established partnerships with industry offering opportunities for placements and industry projects. In final year you will put your skills into practice through our ICT Capstone Project, drawing on your technical expertise and applying professional skills in a real-world setting. Graduate with a degree accredited by the Australian Computer Society and that will prepare you for industry certification exams in Cisco.

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

Network administrator · cybersecurity analyst · system administrator

Career progression can lead to:

Network manager · senior network engineer · senior cybersecurity analyst

YOU MIGHT ALSO LIKE

- 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

FIRST YEAR	Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	THIRD YEAR	Network Security Systems Administration CCNP Enterprise Services Cloud, Virtualisation and Storage
	Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio		Elective Big Data Concepts Digital Forensics Essentials ICT Capstone Project
SECOND YEAR	System Design and Realisation System Design Studio Network Architecture Security Foundations Agile Development and Governance Project Studio Business Resilience CCNP Enterprise Core	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		
	On-campus/online		Intakes: Feb and Jul
	3 years full-time		Real-world projects

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies or Diploma in Information Technology
SAIBT pathways: Diploma of Information Technology

SATAC code		434871		Program code		LBCP	
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:			
guaranteed		66.00		guaranteed		B, B, B	
cut-off 2022		69.85		cut-off 2022		CIV	

-  Part-time study available
-  Honours available

Develop specialist expertise in the creation of computer software and applications. Learn to write code in multiple programming languages, including Java, C++, Python, SQL and ASP.Net. Gain the skills to design, implement, evaluate and test new and existing software programs. Build critical skills in software development methodologies, including Agile and SCRUM. Study core courses that will give you a solid foundation in IT fundamentals including networking, database development, programming and systems analysis and design. You'll then complete specialised courses in Data Structures, Design Patterns with C++, and Cloud and Concurrent Programming. You'll also complete a unique series of collaborative, work-integrated courses in a supportive practice environment. Benefit from our well-established partnerships with industry offering opportunities for placements and industry projects. In final year you'll put your skills into practice through our ICT Capstone Project, drawing on your technical expertise and applying professional skills in a real-world setting. You'll graduate with a degree accredited by the Australian Computer Society, equipped to work in IT companies, freelance consulting and IT departments across the public and private sectors.

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 · analyst programmer · cloud developer · web developer · SCRUM developer · front/back-end developer

Career progression can lead to:

Team leader · software/solution architect · integration specialist

YOU MIGHT ALSO LIKE

- 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

FIRST YEAR	Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	THIRD YEAR	Security Foundations Big Data Concepts Design Patterns with C++ Database for the Enterprise
	Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio		Elective Cloud and Concurrent Programming AI and Machine Learning ICT Capstone Project
SECOND YEAR	System Design and Realisation System Design Studio Operating Systems and Tool Chains Data Structures Essentials Agile Development and Governance Project Studio Web Technology IOS Enterprise Development	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.	



The Unstoppables

A NETFLIX ORIGINAL



Phillipa Avery
Engineering Manager at Netflix
Bachelor of Information Technology

Netflix has us hooked and it's all because of people like UniSA IT grad, Phillipa Avery, who makes sure that the giant streaming machine is running at its best.






An expert in software engineering and an *UNSTOPPABLE* force, this Dragon's Dogma binge watcher is constantly improving back-end technologies to give us the ultimate on demand experience.

Hear more
from our
unstoppable
people



Bachelor of Software Engineering (Honours)

unisa.edu.au/IT

	Mawson Lakes Campus		
	On-campus/online		Intakes: Feb and Jul
	4 years full-time		Real-world projects

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies or Diploma in Information Technology

SATAC code	434211	Program code	LHSG
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed 72.00	guaranteed B, B, B	guaranteed	Dip in IT
cut-off 2022 66.45		cut-off 2022	Dip in IT

Part-time study available

Pursue a career in the innovative, fast-paced software engineering industry. Take your skills beyond programming and gain specialist expertise across the full life cycle of software development. Develop your ability to use your creativity, critical thinking, communication and problem-solving skills to solve business problems with software solutions. Study core courses that will give you a solid foundation in IT fundamentals including networking, database development, programming and systems analysis and design. Build expertise in Python, Java, C++ and ASP.NET. Go on to study specialist courses in Agile Development and Governance, Systems Architecture, Advanced Data Structures, Secure Software Development, Operating Systems and Tool Chains, and Cloud and Concurrent Programming. You'll also complete a unique series of collaborative, work-integrated courses in a supportive practice environment. In your honours year, you'll put your skills into practice with a full-year IT project, to deliver a quality software artefact. You'll graduate with an honours degree professionally accredited by the Australian Computer Society.

Note: This program shares common first-year courses with our IT degrees (Program code: LHCP), so students have the option to transfer and receive study credit for successfully completed courses.

CAREERS

Software engineer · software and applications programmer · agile developer · web developer · UX designer · full stack developer

Career progression can lead to:

Software architect · IT project lead · senior software analyst · SCRUM master

YOU MIGHT ALSO LIKE

- Bachelor of Information Technology (Software Development)
- Bachelor of Engineering (Honours) (Electrical and Electronic)

FURTHER STUDY

- Master of Cybersecurity
- Master of Data Science






DEGREE STRUCTURE

FIRST YEAR	Information Technology Fundamentals	THIRD YEAR	Security Foundations
	Problem Solving and Programming		Big Data Concepts
	Network Fundamentals		Design Patterns with C++
	Design Thinking Studio		Database for the Enterprise
	Object Oriented Programming		Secure Software Development
SECOND YEAR	Data Driven Web Technologies	FOURTH YEAR	Research Directions in ICT
	System Requirements and User Experience		Cloud and Concurrent Programming
	System Requirements Studio		AI and Machine Learning
	System Design and Realisation		IT Project 1
	System Design Studio		System Architecture
	Operating Systems and Tool Chains		Software Engineer Elective 1
	Data Structures Essentials		Computer Science
	Agile Development and Governance		IT Project 2
	Project Studio		Software Engineer Elective 2
	Web Technology		Software Engineer Elective 3
	Data Structures Advanced		

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		
	On-campus		Intakes: Feb and Jul
	1 year full-time		Research project

Prerequisites: none
Assumed knowledge: none

SATAC code	4BH006	Program code	LHCP
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Part-time study available

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 multidisciplinary 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) – one of the largest augmented reality research and development facilities in the Southern Hemisphere, located on campus.

CAREERS

Virtual reality engineer · data scientist · network security manager · software developer · 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

FIRST YEAR	Research Methods
	Elective
	Honours Minor Thesis 1 OR Elective
	Honours Minor Thesis Preparation
	Elective Honours Minor Thesis 1 OR Elective
	Honours Minor Thesis 2



"Both of my parents work in IT and I've always been curious about what they do. I decided to study IT electives in high school and then began to develop a specific interest in software engineering. During my time at university, I was lucky enough to get a fully sponsored overseas internship working in Vietnam for three weeks, where I was able to get real hands-on industry experience."

Swetha Krishnagopal | Software Engineering Graduate / Software Engineer, Boeing

Bachelor of Information Technology

unisaonline.edu.au/IT

 100% ONLINE	 3 years full-time
 UniSA Online	 Intakes: Jan, Apr, Jun, Sept

Prerequisites: none Assumed knowledge: none Time commitment: 10 – 15 hours per week per course Pathways: Literacy and Numeracy Test with relevant work experience (UniSA Online); or Foundation Studies or Diploma in Information Technology (UniSA College).	
Program code	XBIT

 Part-time study available

STUDY ON DEMAND

Study a 100% online IT degree designed specifically for flexible learning. Develop a broad understanding of fundamental IT concepts and programming languages. Learn how information systems and business intelligence can enhance business operations and drive decision making. Evaluate the impact of contemporary cybersecurity threats within an organisational context. Discover common Agile principles and methodologies, including the SCRUM process. And, learn to embed design thinking and principles to enhance your problem-solving skills and find creative solutions. Access online support services seven days a week, view learning resources 24/7 and log in to the interactive online environment anywhere, any time, and on any device. Benefit from flexible study with no need to attend lectures or visit campus – all courses and assessments are delivered online. Scholarships and grants are also available for eligible students.

CAREERS

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

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

- HOW TO APPLY**
- 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


FIRST YEAR	Information Technology Fundamentals Design Thinking and Digital Innovation Problem Solving and Programming Elective 1 OR Critical Approaches to Online Learning Data Driven Web Technologies System Requirements and User Experience Object Orientated Programming System Requirement Practice	THIRD YEAR	Security Foundations Project Management: Principles and Strategies Big Data Concepts Business Resilience Capstone Project 1 Elective 3 Capstone Project 2 Elective 4
SECOND YEAR	System Design and Realisation Business Intelligence System Design Practice Network Fundamentals Enterprise Systems Elective 2 Agile Development and Governance Cloud Platforms		

Bachelor of Data Analytics

unisaonline.edu.au/data-analytics

 100% ONLINE	 3 years full-time
 UniSA Online	 Intakes: Jan, Apr, Jun, Sept

Prerequisites: none Assumed knowledge: none Time commitment: 10 – 15 hours per week per course Pathways: Literacy and Numeracy Test with relevant work experience (UniSA Online); or Foundation Studies or Diploma in Information Technology (UniSA College).	
Program code	XBDA

 Part-time study available

STUDY ON DEMAND

Study a 100% online degree in data analytics designed specifically for flexible learning. Develop the skills to transform big data into meaningful insights. Explore the data analytics solution lifecycle, including how data is explored, pre-processed, modelled, tested and validated. Deep dive into emerging topics like cloud computing, machine learning, artificial intelligence, and text and social analytics. Perform predictive analytics on big data sets and become fluent in programming languages like R and Python. Learn to use data visualisation tools as well as programs and techniques for data acquisition and data cleaning. Download data analytics software and tools used by industry professionals for free. Access online support services seven days a week, view learning resources 24/7 and log in to the interactive online environment anywhere, any time, and on any device. Benefit from flexible study with no need to attend lectures or visit campus – all courses and assessments are delivered online. Scholarships and grants are also available for eligible students.

CAREERS

Data analyst · data scientist · business data strategist · data engineer · data architect · data visualisation specialist · reporting analyst

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

- HOW TO APPLY**
- 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

FIRST YEAR	Professional Practice in Data Analytics Information Technology Fundamentals Mathematical Methods for Data Analytics 1 Problem Solving and Programming R for Data Analytics Data Driven Web Technologies Object Orientated Programming Elective 1 OR Critical Approaches to Online Learning	THIRD YEAR	Experimental Design Big Data in the Cloud Text and Social Media Analytics Elective 2 Capstone Project 1 Machine Learning Capstone Project 2 Advanced Topics in Data Analytics
SECOND YEAR	Mathematical Methods for Data Analytics 2 Data Acquisition and Wrangling Cloud Platforms Applied Data Structures Database for the Enterprise System Requirements and User Experience Data Visualisation Predictive Analytics		

Bachelor of Mathematics (Data Science)

unisa.edu.au/mathematics

 Mawson Lakes Campus	
 On-campus/online	 Intakes: Feb and Jul
 3 years full-time	 Real-world projects

Prerequisites: SACE Stage 2 Mathematical Methods
Assumed knowledge: none
UniSA College pathways: Foundation Studies

SATAC code		434171	Program code		LBMH
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	75.00	guaranteed	A, B, B	guaranteed	Dip
cut-off 2022	98.20			cut-off 2022	CIV

 Part-time study available  Honours available

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'll focus on building your mathematical and programming skills with courses in calculus, statistical methods, fundamentals of programming and databases. You'll 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'll develop skills in programming and networking, project management and analytics. Gain hands-on experience through a major maths project or as part of the Maths Clinic program and work on a real-world challenge to 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.

CAREERS

Data scientist · data miner · 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) (Mathematics) – one year
- Master of Data Science
- Master of Teaching (Secondary)


DEGREE STRUCTURE

FIRST YEAR	Calculus 1 Statistical Methods Problem Solving and Programming Information Technology Fundamentals	THIRD YEAR	Analytics for Decision Making Predictive and Descriptive Analytics Visualisation for Data Science Mathematics Clinic 1 OR Elective
	Calculus 2 Linear Algebra Object Oriented Programming Data Driven Web Technologies		Business Intelligence and Analytics Text and Social Media Analytics Mathematical Sciences Project OR Mathematics Clinic 2 Elective
SECOND YEAR	Applied Probability Data Structures Essentials Linear Programming and Networks Discrete Mathematics		
	Mathematical Communication Mathematical Modelling Data Analytics using R Big Data Concepts		<i>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.</i>



PACKAGE THIS DEGREE

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

SATAC code: 434221
 [unisa.edu.au/become-a-teacher](#)








"If you like maths and IT then a degree in data science is for you. I've really enjoyed expanding my knowledge in areas like coding and programming, along with building my mathematical knowledge. Data science continues to evolve as one of the most in-demand career paths, with lots of companies looking to extract more detailed insights from their data."

Alexandra Reade | Data Science Graduate / Technology Analyst, Accenture

Bachelor of Mathematics (Industrial and Applied Mathematics)

unisa.edu.au/mathematics

	Mawson Lakes Campus
	On-campus/online
	Intakes: Feb and Jul
	3 years full-time
	Real-world projects

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *none*
UniSA College pathways: *Foundation Studies*

SATAC code	434161	Program code	LBMH
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed	75.00	guaranteed	A, B, B
cut-off 2022	75.00	cut-off 2022	CIV

 *Part-time study available*  *Honours available*

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

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, or complete a major 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) – *various specialisations*
- Bachelor of Science
- Bachelor of Secondary Education (Honours)

FURTHER STUDY

- Bachelor of Applied Science (Honours) (Mathematics) – *one year*
- Master of Data Science
- Master of Teaching (Secondary)

DEGREE STRUCTURE

FIRST YEAR	Calculus 1 Statistical Methods Problem Solving and Programming Discrete Mathematics	THIRD YEAR	Mathematics Clinic 1 OR Elective Topics in Mathematics 1 Multivariable Calculus Elective
	Calculus 2 Linear Algebra Object Oriented Programming Geometry		Mathematics Clinic 2 OR Mathematical Sciences Project Topics in Mathematics 2 Optimisation Elective
SECOND YEAR	Applied Probability Linear Programming and Networks Mathematical Methods for Engineers 3 OR Elective Fundamentals of Real Analysis		
	Mathematical Communication Mathematical Modelling Elective Differential Equations 1		

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 DEGREE






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

SATAC code: 434181

 unisa.edu.au/become-a-teacher

Bachelor of Science

unisa.edu.au/science

	Mawson Lakes Campus
	On-campus
	Intakes: Feb and Jul
	3 years full-time
	Real-world projects

Prerequisites: *There are no prerequisites for entry into this program, however prerequisites or equivalent knowledge may apply to some majors at the subject level. You may also meet prerequisite requirements for majors through elective choices in your program. Refer to website for more information.*
UniSA College pathways: *Foundation Studies or Diploma in Science and the Environment*

SATAC code	434201	Program code	LBSC
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed	70.00	guaranteed	B, B, B
cut-off 2022	68.35	cut-off 2022	CIV

 *Part-time study available*  *Honours available*

Choose two majors from Applied Physics, Biology, Mathematics, Chemistry, Ecosystem Sciences, Geographical Information Systems (GIS), Computer Science, or Geoscience and Biogeochemistry.

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. Follow your curiosity and tailor your degree to your interest areas by choosing two majors from traditional pathways like Applied Physics, Biology, Mathematics and Chemistry, to increasingly critical areas such as Ecosystem Sciences, Geographical Information Systems (GIS), Computer Science and Geoscience and Biogeochemistry. Gain practical skills through laboratory and field work. Access industry-standard facilities and engage with researchers at the multi-million dollar Future Industries Institute on campus. You'll graduate prepared to apply your expertise to a range of industries, such as defence, the environment, meteorology and energy, or food. You can also 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 · 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 Biomedical 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

APPLIED PHYSICS MAJOR	GEOGRAPHICAL INFORMATION SYSTEMS MAJOR
Applied Physics 1 Applied Physics 2 Physics of Materials and Technology Computational Science 1 Applied Physics 4 Modern Physics Computational Science 2 Plus one of the following three courses: Optical Communications Lasers and Optics Applied Science Project	Introduction to Surveying and Spatial Sciences Spatial Data Acquisition and Analysis Environmental Remote Sensing Surveying Fundamentals Web Cartography Surveying Processes Environmental and Geospatial Field Project
BIOLOGY FOR SCIENCE MAJOR	GEOSCIENCE AND BIOGEOCHEMISTRY 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 Group 2 Course	Earth Systems Environmental Chemistry Engineering and Environmental Geology Soils in the Australian Landscape Environmental Microbiology Earth and Landscape Evolution Environmental Pollution and Monitoring AND choose one of the two following courses: Water and Wastewater Treatment Water Quality Modelling
CHEMISTRY FOR SCIENCE MAJOR	MATHEMATICS 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 Research Elective Project	Calculus 1 Calculus 2 Linear Algebra Fundamentals of Real Analysis Differential Equations 1 Mathematical Sciences Project Topics in Mathematics 1 Multivariable Calculus
ECOSYSTEM SCIENCES MAJOR	COMPUTER SCIENCE
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	Information Technology Fundamentals Problem Solving and Programming Object Oriented Programming System Requirements and User Experience Data Structures Essentials Computer Science Secure Software Development Big Data Concepts

LOOKING FOR ALTERNATIVE ENTRY?

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

SATAC code: 426064

 unisa.edu.au/college



PACKAGE THIS DEGREE

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






SATAC code: 434101

 unisa.edu.au/become-a-teacher



Bachelor of Environmental Science

unisa.edu.au/enviro

	Mawson Lakes Campus		
	On-campus		Intakes: Feb and Jul
	3 years full-time		Real-world projects

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

SATAC code	434921	Program code	LBVT
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed 64.00	guaranteed B, B, C	guaranteed	Dip
cut-off 2022 64.20		cut-off 2022	CIV

Part-time study available Honours available

Choose to major in Ecology and Conservation or Environmental Quality and Earth Sciences.

Build a career in environmental sustainability. Explore how humans interact with the environment, how we can manage it best, and how we can influence positive attitudes. Develop skills in science communication and community engagement. With a focus on hands-on fieldwork in the natural environment, learn about ecology, geography, earth and soil science, water and coasts, pollution monitoring, conservation and ecotourism. Tailor your studies to your interests by choosing to major in Ecology and Conservation or Environmental Quality and Earth Sciences. You'll also complete minors in Geographical Information Systems (GIS) and Community Engagement. Learn in a specialised immersive virtual environment on campus using Project LIVE visualisation technology, transforming traditional classroom activities into interactive learning. Access cutting-edge digital imagery from local environments and further afield, along with tools to process data and evaluate its meaning. Through this technology, you'll 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 Environmental Science to Year 12 and Science to Year 10.

CAREERS

Environmental adviser · land management officer · sustainability officer · coastal management officer · ranger · 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 Outdoor and Environmental Leadership
- 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 Teaching (Secondary)

DEGREE STRUCTURE

FIRST YEAR	Biodiversity for the Environment Earth Systems Environment: A Human Perspective Introduction to Surveying and Spatial Sciences	ENVIRONMENTAL QUALITY AND EARTH SCIENCE MAJOR
SECOND YEAR	Environmental Analytical Methods Spatial Data Acquisition and Analysis Environmental Chemistry Sustainable Ecosystems	SECOND YEAR Web Cartography Environmental Policy and Regulations Soils in the Australian Landscape Environmental Microbiology
THIRD YEAR	Environmental Remote Sensing Environmental Interpretation and Community Engagement Engineering and Environmental Geology Ecology	THIRD YEAR Environmental Conflict and Public Consultation Elective 1 Earth and Landscape Evolution Environmental Pollution and Monitoring Ecosystem Monitoring Elective 2 Environmental and Geospatial Field Project
ECOLOGY AND CONSERVATION MAJOR		
SECOND YEAR	Web Cartography Environmental Policy and Regulations Sustainable Development: A Global Perspective Conservation Biology	
THIRD YEAR	Environmental Conflict and Public Consultation Elective 1 Restoration Ecology Park and Ecotourism Management Ecosystem Monitoring Elective 2 Environmental and Geospatial Field Project	

LOOKING FOR ALTERNATIVE ENTRY?

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

SATAC code: 426062

unisa.edu.au/college



Joel Schiller | Environmental Science Student

"Going on holidays to the Flinders Ranges and doing lots of sightseeing across Australia and New Zealand really got me interested in studying environmental science. I've enjoyed learning about ecology, geology and soils, looking at things like species identification, rock characteristics and different soil layers."

The Unstoppables



Greenhouse, Purwodadi Botanic Gardens

SMART CONSERVATIONIST



Heri Apriyanto
IT Project Manager & Software Developer
at Purwodadi Botanical Gardens
Master of Information Technology
(Enterprise Management)

People can explore Indonesia's Purwodadi Botanic Gardens through a Pokémon Go type experience thanks to UniSA IT grad, Heri Apriyanto.






Growing up on the edge of the island's Way Kambas National Park, this *UNSTOPPABLE* force had a green wonderland at his feet and after uni applied his knack for IT to help conserve plant life through smart software. Teams can now manage and analyse plant collections through a few clicks on a smartphone or tablet.

Hear more
from our
unstoppable
people



Bachelor of Outdoor and Environmental Leadership

unisa.edu.au/enviro

	City East Campus		
	On-campus		Intakes: Feb and Jul
	3 years full-time		Placement

Prerequisites: none
Assumed knowledge: none
UniSA College pathways: Foundation Studies, Diploma in Health or Diploma in Science and the Environment

SATAC code		414503		Program code		IBOE	
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:			
guaranteed	70.00	guaranteed	B, B, B	guaranteed		Dip	
cut-off 2022	74.25			cut-off 2022		Dip	

 Part-time study available  Honours available

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 Biology and Environmental Science to Year 12 and Science to Year 10.

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 Teaching (Secondary)
- Master of Health Services Management
- Master of Research (Health Sciences)

DEGREE STRUCTURE

FIRST YEAR	Biodiversity for the Environment Earth Systems Environment: A Human Perspective Foundations of Outdoor Leadership	THIRD YEAR	Leadership in Aquatic Environments Park and Ecotourism Management 2 x Electives
	Soils in the Australian Landscape Sustainable Ecosystems Caring for Country Introduction to Group and Team Psychology		Professional Practice in Outdoor Leadership Leadership in Recreation and Sport 2 x Electives
SECOND YEAR	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 Elective 2		

Bachelor of Science (Honours)

unisa.edu.au/science

	Mawson Lakes Campus		
	On-campus		Intakes: Feb and Jul
	1 year full-time		Research project

Prerequisites: none
Assumed knowledge: none

SATAC code	4BH009	Program code	LHSC
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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.

CAREERS

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

- Masters by Research
- Doctor of Philosophy (PhD)






DEGREE STRUCTURE

FIRST YEAR	Research Methods
	Advanced Topics in Science 1 OR Advanced Topics in Science 2 AND Elective
	Honours Research Project 1
	Honours Research Project 2 N

Bachelor of Applied Science (Honours) (Mathematics)




unisa.edu.au/mathematics

	Mawson Lakes Campus		
	On-campus/online		Intakes: Feb and Jul
	1 year full-time		Research project

Prerequisites: none
Assumed knowledge: none

SATAC code	4BH005	Program code	LHAS
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 Part-time study available

Prepare for advanced study and research in pure and applied mathematics and statistics. You'll cover topics such as simulation theory and application, advanced complex analysis, nonlinear programming, discrete optimisation, applied functional analysis, numerical linear analysis, computational biology and stochastic calculus. You'll also complete a research or study project supervised by a mathematician or statistician. Further your studies through an additional postgraduate qualification by coursework or research; or pursue a career in environmental modelling, defence research or statistical analysis and optimisation.

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

FIRST YEAR	Research Methods Honours Minor Thesis Preparation Honours Minor Thesis 1 OR Elective Elective
	Elective Honours Minor Thesis 1 OR Elective Honours Minor Thesis 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.

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.

Explore our full range of postgraduate degrees

unisa.edu.au/study

Learn more about our research degrees

unisa.edu.au/researchdegrees

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Master of Cybersecurity

Nested with:
· Graduate Certificate in Cyber Security

unisa.edu.au/IT

	Mawson Lakes Campus		Intakes: Feb and Jul
	On-campus		Real-world projects
	2 years full-time		Commonwealth supported*

SATAC code	4CM207	Program code	LMCY
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 Part-time study available *see page 36 for more on fees

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'll devise and implement a defence strategy for a complex enterprise environment. Collaborate with our Innovation & Collaboration Centre (ICC), 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 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

FIRST YEAR	IT Concepts
	Network Infrastructure
	Security Principles
	Security Governance
SECOND YEAR	Security Consultancy
	Network Security
	Operating Systems and Application Security
	Web and Cloud Security
	Digital Forensics Essentials
	Industrial Internet Security
	Enterprise Security
	Cybersecurity Risk and Compliance
	Security Architecture
	Capstone Professional Project

Master of Data Science

Nested with:
· Graduate Certificate in Data Science
· Graduate Diploma in Data Science

unisa.edu.au/IT

	Mawson Lakes Campus		Intakes: Feb and Jul
	On-campus/online		Real-world projects
	2 years full-time		A\$30,000 pa* <i>indicative 2022</i>

SATAC code	4CM128	Program code	LMDS
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 Part-time study available *see page 36 for more on fees

Enter the revolutionary field of big data where there's 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 collaboration 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 education institution; or
- Graduate diploma or graduate certificate in data science from a recognised higher education institution.

YOU MIGHT ALSO LIKE

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

DEGREE STRUCTURE

FIRST YEAR	Big Data Concepts
	Statistical Programming for Data Science
	Statistics for Data Science
	Directed Elective
SECOND YEAR	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)

Nested with:
· Graduate Certificate in Information Technology
· Graduate Diploma in Information Technology (Enterprise Management)

unisa.edu.au/IT

	Mawson Lakes and City West Campus		Intakes: Feb and Jul
	On-campus/online		Real-world projects
	2 years full-time		A\$28,500 pa* <i>indicative 2022</i>

SATAC code	4CM133	Program code	LMIG
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 Part-time study available *see page 36 for more on fees

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 web and data mining, security operations, network infrastructure, commercial law, global business, marketing, accounting and people management. Complete a major project where you'll work on a real-world issue or challenge within a structured team, applying modern IT and management techniques. Benefit from flexible learning options, including part-time and online study. Graduate with a qualification accredited by the Australian Computer Society.

CAREERS

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

Entry requirements

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

YOU MIGHT ALSO LIKE

- Master of Cybersecurity
- Master of Data Science

DEGREE STRUCTURE

FIRST YEAR	IT Concepts
	Business Practices for IT Professionals
	Project Management for IT Professionals
	Professional Communication
SECOND YEAR	Business Intelligence and Analytics
	Enterprise Resource Management
	Business Systems Analysis
	Elective 1
	Security Principles
	Business Process Modelling
	IT Stakeholder Engagement
	Elective 2
	Enterprise Architecture
	Information Governance
	Capstone IT Project OR 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
 - Graduate Diploma in Information Management (Archives and Records Management)
 - Graduate Diploma in Information Management (Library and Information Management)

unisa.edu.au/infomanagement

	City West Campus		Intakes: Jan, Mar, Jun, Sept
	Online		Placement
	2 years full-time		Commonwealth supported*

	Archives and Records Management	Library and Information Management
SATAC code	4CM135	4CM134
Program code	DMIL	DMIL

 Part-time study available *see page 36 for more on fees

Study information management and choose the specialisation that interests you most. In the Archives and Records Management program, you'll develop the unique skills needed for archiving and preserving information. In the Library and Information Management program, you'll build the skills required of contemporary librarians and information officers. In both programs, you'll gain practical experience through a real-world project and a two-week placement within a library setting. You'll also benefit from a curriculum developed in collaboration with the State Records of South Australia. In final year, you can 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



"The great thing about information management is that it can take you in so many different directions. I'm really interested in special collections and the way libraries, archives, galleries and museums can open our history and culture to community."

Rebecca Bell-White | Information Management (Library and Information Management) Graduate / Reference Librarian, UniSA

Entry requirements

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

DEGREE STRUCTURE

FIRST YEAR	INDICATIVE OF LIBRARY AND INFORMATION MANAGEMENT	SECOND YEAR	RESEARCH PROJECT
	Information Management Professional Practice Technological Foundations Information Management Foundations Reading and Readers' Advisory OR Scholarly Communications Information Retrieval Organising Resources Information Management Experience Reports Information Management Project Research Methods		Elective 1 Elective 2 Elective 3 IT Masters Research Project Digital Literacy OR Metadata OR Information Advocacy
		SECOND YEAR	MINOR THESIS
			Elective 1 ICT Masters Minor Thesis 1 ICT Masters Minor Thesis 2 Digital Literacy OR Metadata OR Information Advocacy

Masters by Research
Doctor of Philosophy (PhD)

unisa.edu.au/researchdegrees

Our research degrees are designed to make a difference. You'll be at the forefront of solving real-world problems, by studying a project-based research degree where you'll partner with end-users to develop solutions for the challenges of today and tomorrow.

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.

TOPICS OF RESEARCH

- 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

A research degree is suitable for someone who has completed a previous degree, normally with a research component. At UniSA, all research degree applications are made to a specific project as listed on our research projects page. Most projects will have additional, project-specific selection criteria. It is also possible to develop your own research project by negotiation. Please contact the Graduate Research Admissions team if you have any questions.
research.degrees@unisa.edu.au

Masters by Research

- Bachelor degree (or equivalent) of at least three years in a relevant discipline with a minimum credit average; or
- Honours degree or bachelor degree with honours; or
- An appropriate master's degree (or equivalent).

Doctor of Philosophy (PhD)

- Honours degree or bachelor degree with honours of at least class 2a standard in an appropriate discipline; or
- An appropriate master's degree (or equivalent).

Alternative entry

- Other applicants may be considered for admission if their previous education, professional experience and published research work is of sufficient quality and relevance to prepare the applicant for a research degree.



EXPLORE OUR RESEARCH PROJECTS

Apply for a research degree and choose from one of our many research projects, or design your own. Scholarships and fee-waivers are available. Conditions apply.

 unisa.edu.au/research-projects

YOUR STUDENT EXPERIENCE

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

Campus Central teams are there to help you with everything from ID cards, to enrolment, fees, student services and any questions you have about your studies.

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 clinics located on campus.

USASA is your student association and voice at university. They also organise social activities, coordinate 100+ student clubs and publish our award-winning student magazine.

Career Services will help you prepare for your future career. Connect with one of our expert career advisers, access the online Career Hub for the latest resources and job listings, and attend networking and industry events.

UniSA+ is a unique program that will help you get career ready by developing your practical skills in leadership, entrepreneurship, cultural understanding and self-awareness.

Student lounges feature open social spaces, study nooks, kitchen facilities, mobile charging stations, lockers, gaming stations and more.

UniSA Sport has 25+ sporting clubs, including rowing, netball, gridiron, rock climbing and even esports!

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

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

WHAT UNI MIGHT LOOK LIKE...



PEN DAYS

ONLINE

Virtual Open Day
Tuesday 9 August

ON CAMPUS

Step on campus throughout August
Mount Gambier: **Sunday 7 August**
City West and City East: **Sunday 14 August**
Mawson Lakes: **Sunday 21 August**
Magill: **Wednesday 24 August**
Whyalla: **Sunday 28 August**



Register now
unisa.edu.au/opendays

Events and webinars
We host different events and webinars throughout the year so you can learn more about studying with UniSA.

Campus tours
Book a guided campus tour to see our state-of-the-art facilities and chat to us about your study and career options.
unisa.edu.au/infosessions

STUDY AT UniSA – THE BASICS

APPLYING WITH YEAR 12 RESULTS

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

- A competitive Selection Rank (ATAR + Adjustment Factors);
- Fulfilment of the degree's prerequisite requirements (where applicable).

Applicants may also be eligible to compete for entry if they have completed the degree's prerequisite requirements and 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.

unisa.edu.au/Year-12

ADJUSTMENT FACTORS

Australian high school students applying for university study may be eligible for Adjustment Factors (previously known as bonus points). These are based on set equity factors and/or subject choices (see below). SATAC will combine them with your ATAR to improve your Selection Rank for entry.

- 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

There are a few ways to guarantee your place at UniSA:

Year 12 Grades Guaranteed Entry – UniSA offers guaranteed entry based on your three best Year 12 subject grades for most degrees. If you achieve the selection grades and you put us as your first preference, that's it, you're automatically in.

Subjects need to be 20-credit Stage 2 Tertiary Admission Subjects (TAS). Students also need to achieve a minimum ATAR of 50.

Selection Rank Guaranteed Entry – UniSA has set guaranteed entry scores for most of our degrees. This means, that if you achieve that set Selection Rank and you put us as your first preference, you're in. There's nothing more you have to do.

Some degrees also have prerequisites and other eligibility criteria for entry that you'll still have to meet. Application timelines and fees also apply.

TAFE/VET Guaranteed Entry – UniSA offers guaranteed entry based on successfully completed VET qualifications. If your completed VET award meets the set VET Guaranteed Entry, you have met any prerequisites and specific entry requirements, and you've listed the degree as your first preference, you're guaranteed an offer.



Go online and check out UniSA's Guaranteed Entry calculators

unisa.edu.au/guaranteed

ALTERNATIVE PATHWAYS

Entering your chosen degree 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:

UniSA College – there are a variety of pathway options offered through UniSA College, including diplomas, Foundation Studies and the Aboriginal Pathway Program.

STAT – a competitive Special Tertiary Admissions Test (STAT) score, based on 70 multiple choice questions designed to assess your aptitude for tertiary study. A personal competencies statement or relevant employment experience alongside your STAT score may also be considered for some degrees.

TAFE/VET – applicants may be eligible for entry with the completion of an award from TAFE or another Registered Training Organisation at AQF Certificate IV or higher.

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

SAIBT – There are a range of bridging qualifications offered through the South Australian Institute of Business & Technology.

unisa.edu.au/pathways

SCHOLARSHIPS

We offer a wide range of scholarships and grants to support students from all walks of life. Each year, more than 2,500 students benefit from scholarships at UniSA, providing financial assistance as well as valuable work experience, mentoring opportunities and overseas travel. Go online to check what you might be eligible for.

unisa.edu.au/scholarships

HOW TO APPLY

Applications to most UniSA degrees are administered through the South Australian Tertiary Admissions Centre (SATAC). Visit our website for all the information you need about how to apply.

unisa.edu.au/apply

For all UniSA Online degrees, you can apply directly.

unisaonline.edu.au



FEES

All domestic undergraduate students at UniSA 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 2022 are:

Band	Field of Education	Student contribution	Student contribution
		For one year of full-time load (1 EFTSL)	For each subject (0.125 EFTSL)
1	Agriculture, english, mathematics, teaching, clinical psychology [^] , languages and nursing.	\$3,985	\$498
2 (2&2A)	Architecture, IT, other health, allied health, creative arts, engineering, science, environmental studies, professional pathway psychology [^] , professional pathway social work [^] and clinical psychology [^] .	\$8,021	\$1,002
3	Dentistry, medicine and veterinary science.	\$11,401	\$1,425
4 (4A,4C,4P, 4SE4Y)	Law, accounting, administration, economics, commerce, communications, society and culture, professional pathway psychology [^] , professional pathway social work [^] and clinical psychology [^] .	\$14,630	\$1,828

*Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying; this is listed on applicable programs in this guide. For programs under 1.0 year full-time study, fees are listed as the whole program fee (indicative of 2022). For programs over 1.0 years full-time study, fees are listed based on the cost per annum (indicative of 2022). 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

This table should be used as a guide only. Total costs can vary depending on the courses you study and the band they fall into.

[^] Band determined by program/plan.



University of South Australia

Australia's University of Enterprise

unisa.edu.au

Telephone: (08) 8302 2376

Make an enquiry: ***unisa.edu.au/enquire***



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CRICOS provider number 00121B

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



Acknowledgement of Country

UniSA respects the Kaurna, Boandik and Barngarla peoples spiritual relationship with their country.

Artist: Ngupulya Purnani

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