University of South Australia

2024 STEM

AVIATION // CONSTRUCTION MANAGEMENT // CYBERSECURITY // DATA SCIENCE
ENGINEERING // ENVIRONMENTAL SCIENCE // INFORMATION TECHNOLOGY
MATHEMATICS // PROJECT MANAGEMENT // SCIENCE // SOFTWARE ENGINEERING

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

#1 IN SA FOR GRADUATE CAREERS

ComparED (QILT) Graduate Outcomes Survey 2020-22 – Full-time Employment Indicator (Domestic Undergraduate). SA public universities.

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

or

Achieve the guaranteed TAFE/VET qualification

That's it. You're automatically in.

See what you might be eligible for with UniSA's Guaranteed Entry Calculators.

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.

INFINITE POSSIBILITES AWAIT

Discover where a degree in information technology, mathematics, science, engineering, construction management or aviation can take you. Be immersed in contemporary curriculum, exploring the latest and emerging trends across artificial intelligence, mixed reality, software development, sustainability, renewable energy, robotics, automation, and more. 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 solutions and discoveries.

unisa.edu.au/study

UniSA Mathematics Graduates: Nicholas Azzollini, Data Graduate at RAA; and Shurui Yi, Honours Student.

TOP 10 IN AUSTRALIA FOR GRADUATE STARTING SALARIES IN I.T.

Ranked #9, ComparED (QILT) Graduate Outcomes Survey 2019-21, Computing and Information Systems – Median Salary Indicator (Domestic Undergraduate). Public universities.

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.

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.

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).

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

JOBS GROWTH

Jobs in STEM are predicted to grow by 14.2% over the next five years – that's twice as fast as non-STEM jobs (7.4%).

Australian Government National Skills Commission, Employment Outlook – March 2022.

#1 IN SA FOR GRADUATE EMPLOYABILITY

QILT Employer Satisfaction Survey, 2020-22 – Employability Skills Indicator. SA public universities.

INDUSTRY EXPERIENCE

UniSA's Industry Experience Program sees all STEM students build connections with industry and potential employers. You'll have the chance to apply your skills in a business setting, provide solutions to real-world challenges, and establish a personal network within your future industry. There's also opportunities for industry placements. Engineering and construction students will participate in the Professional Practice Program – 450+ hours that combines internships, guest lectures, panel discussions, site visits, industry events, and more.

DO THE MATH

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.

BUILDING YOUR CAREER

UniSA has been teaching construction management in step with industry needs for more than 30 years. Our educators are skilled construction management professionals. They're involved in research projects focusing on things like smart cities and artificial intelligence in construction, bringing their knowledge and experience into the classroom. You'll learn contemporary theory, practice and technology in modern city-based teaching spaces, including building information modelling and immersive virtual reality.

MOTOR ON!

You can rev up your passion for racing by joining the UniSA Motorsport Club. Join a collective group of students focused on the development, design, manufacturing and management of a Formula SAE vehicle. Put your skills to the test by competing in the Formula SAE Australasian Competition and connect with industry and future employers. Team UniSA are a real force, having taken out one of the coveted Harry Watts Innovation Awards for their in-house designed and assembled accumulator!

unisasport.edu.au/clubs

@unisa_motorsport

Franke Agenbag, UniSA Electrical and Mechatronic Graduate / Space Systems Engineer, DSTG

Francesco Freda, UniSA Construction Management (Honours) Student / Undergraduate, BADGE Constructions.

UniSA Motorsport Club members

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 UniSA has teamed up with the South Australian Government in their bid for UNESCO World Heritage status of the iconic Flinders Ranges. The 360-degree tour takes viewers on a journey through deep geological time.

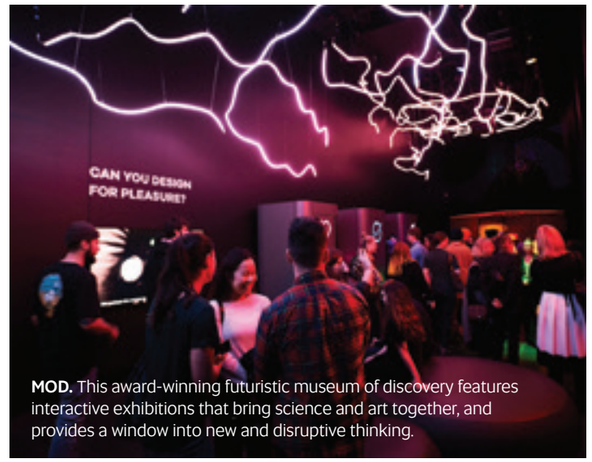
Field work is crucial to learning in science, with virtual reality seeing our students extend their skills beyond the locations they can physically visit. Through immersive virtual environments, traditional classroom activities are transformed into interactive learning experiences.

projectlive.org.au/360-flinders-ranges

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."

Professor Tom Raimondo | Professorial Lead: Geology and Geochemistry



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.

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.

#1 IN SA FOR GRADUATE CAREERS IN MATHS AND SCIENCE

ComparED (QILT) Graduate Outcomes Survey 2020-22 – Full-time Employment Indicator (Domestic Undergraduate). SA public universities.

#1 IN SA FOR QUALITY EDUCATION AND EXPERIENCE

ComparED (QILT) Student Experience Survey 2020-21, Overall Quality of Educational Experience Indicat or (Undergraduate). SA public universities.

TAKE TO THE SKIES

Study aviation and take your career to new heights by developing your skills with our specialist simulators and software. UniSA is the only university in Australia that offers undergraduate aviation students full access to both a Boeing 737 Next Generation and Airbus A320 flight simulator, both located on campus. You'll also learn to respond to real-world scenarios and strengthen your airport management skills with our Airline Online simulation software.

THE SKY'S THE LIMIT

An industry partnership between UniSA and Qantas is giving aviation students a clear path into the skies. The Qantas Group Future Pilot Program is an opportunity for high-performing aviation students to engage with industry and really take off with their career.

Participants get access to training, mentoring and networking with Qantas pilots and may have the opportunity to work alongside an experienced QantasLink pilot as a First Officer after completing the program.

UniSA offers the only aviation degrees in South Australia, backed by highly experienced teaching staff that are also working industry professionals. This partnership gives our students the extra edge as they reach for new heights in the aviation sector.

UniSA Aviation students and Pilot Instructor at the UniSA Aviation Academy at Parafield Airport.

STUDY SA's ONLY AVIATION DEGREES

STEM POWERHOUSE

InDaily and CityMag have named Dr Stephanie Lamont-Friedrich, a UniSA STEM graduate, in their illustrious *40 Under 40 Awards*. A real game-changer, she successfully developed a novel anti-fungal surface coating and completed her PhD studies before moving into a global corporate leadership role focused on decarbonisation and energy transition. Dr Lamont-Friedrich is leading an effort to propel women into a fulfilling career in science. She is the founder of the UniSA Women in STEM Club and provides inspirational leadership and mentorship to its members and beyond.

WOMEN IN STEM CLUB

The UniSA Women in STEM Club is an active network that brings together a powerful group of people who are working and studying in the field. UniSA also offers scholarships opportunities for women interested in studying a STEM degree. Explore what you might be eligible for.

unisa.edu.au/scholarships
@winstemunisa

Jeel Bhatt, UniSA IT Student and Women in STEM Member.

THE BEST DEFENCE

The defence industry in Australia is big business, with the Federal Government committing over $200 billion to modernise the nation's defence capability. Investing in a growing workforce is also a key focus, with Australian workers needed in traditional roles along with intelligence, surveillance, cybersecurity and electronic warfare, project management, and more. UniSA is a major source of graduates to the defence industry, providing students with highly specialised and in demand skills. In fact, the Naval Shipbuilding College (NSC) has endorsed a range of our engineering degrees.

Bradley Toole, UniSA Mechanical Engineering Graduate/Engineering Consultant, Bastion Defence Consulting.

READY FOR COMBAT

We're one of Australia's leading defence universities. We collaborate with large defence companies to support their education and research needs like BAE Systems and Lockheed Martin. We've also partnered with Saab Australia to design new combat consoles for the Royal Australian Navy's fleet of submarines and ships, with a dedicated research group based at our Mawson Lakes Campus.

MEET YOUR TEACHER

"Many notable and iconic structures in Adelaide's skyline have involved our students and graduates. Our degrees provide students with leadership and technical skills to manage diverse projects, with many opportunities for students to advance and diversify their careers."

Debbie Frisby | Program Director: Construction Management

TOP 5 IN AUSTRALIA FOR QUALITY EDUCATION IN ENGINEERING

Ranked #5, ComparED (QILT) Student Experience Survey 2020-21, Overall Quality of Educational Experience Indicator (Postgraduate). Public universities.

ONE OF AUSTRALIA'S LEADING UNIVERSITIES FOR ENGINEERING RESEARCH

UniSA's Engineering research rated well above world-class – 2018 Excellence in Research for Australia (ERA).

YOUR CAMPUS

YOUR HOME CAMPUS IS MAWSON LAKES

Construction Management is delivered at City East Campus

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

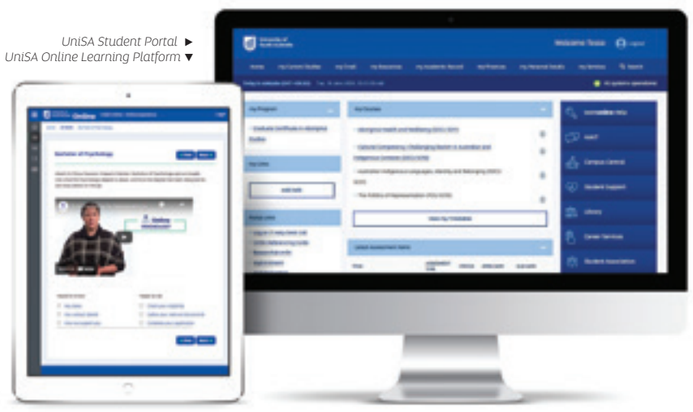
We host guided campus tours throughout the year and you can chat to us about your future study plans and career. Book today!

unisa.edu.au/campustours

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.

UniSA Student Portal ▶
UniSA Online Learning Platform ▼



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.

MECHANICAL ENGINEERING WORKSHOP / A collaborative teaching space where engineering students can explore full-cycle manufacturing processes.

FLIGHT SIMULATOR / A Boeing 737 Next Generation flight simulator equipped with the latest technologies to simulate real flying conditions for aviation students.

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

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.

MECHATRONICS LAB / A place where engineering students and technology come together to experiment with robots and mechanised power.

#1 IN SA FOR CAMPUS FACILITIES

ComparED (QILT) Student Experience Survey 2020-21, Learning Resources Indicator (Undergraduate and Postgraduate). SA public universities.

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. Our teachers are also researchers who bring new and emerging findings into the classroom – so you'll have access to incredible knowledge, which will help inform your studies and professional practice.

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 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.

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.

CONNECTED WITH INDUSTRY

UNREAL ENGINE · Adelaide Crows · ANZ · BAE SYSTEMS · Calvary · coles · DXC.technology · FOOD BANK · Government of South Australia · DEFENCESA · Helping Hand new aged care · Jam Factory · LOCKHEED MARTIN Australia · mayne pharma · 44 Adelaide Community Television · ANGLICARE SA · Unilever · BLACKMORES GROUP · QANTAS GROUP · RISING SUN PICTURES · SAAB · SAMSUNG · SA Power Networks · The Hospital Research Foundation Group · UNITING COMMUNITIES

Logos correct at October 2022

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 French Italian, Japanese or English 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. Entry criteria apply.

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.

unisa.edu.au/mycareerprofile

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

University of South Australia | Online

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 Data Analytics
- Associate Degree in Engineering
- Associate Degree in Information Technology
- Bachelor of Accounting
- Bachelor of Business (Economics, Finance and Trade)
- Bachelor of Business (Financial Planning)
- Bachelor of Business (Human Resource Management)
- Bachelor of Business (Management)
- Bachelor of Business (Marketing)
- Bachelor of Business (Tourism, Event and Hospitality Management)
- Bachelor of Communication
- Bachelor of Community Health
- Bachelor of Construction Management
- Bachelor of Construction Management (Honours)
- Bachelor of Criminology and 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 Journalism
- Bachelor of Marketing and Communication
- Bachelor of Psychological Science and Sociology
- Bachelor of Psychology
- Bachelor of Public Health
- Diploma in Health

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

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.

LinkedIn Learning

BECOME A DIGITAL BUSINESS LEADER

Designed and taught by UniSA's experts and global professional services firm Accenture, the Bachelor of Digital Business is the best of both worlds: an industry-led academic degree. Learn to evaluate business challenges, develop digital solutions, and adapt to rapid tech advancements. Cement your industry relationships with a paid internship, plus you'll be invited to apply to Accenture's exceptional graduate program. No matter how fast technology changes, you'll be one step ahead with a degree designed for the future.

accenture

unisaonline.edu.au/digital-business

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.

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...	CAREERS	DEGREES TO GET YOU THERE
I like problem solving, analysing IT vulnerabilities and developing network security.	Network administrator · cyber security analyst · system administrator · virtualisation engineer	Bachelor of Information Technology (Networking and Cybersecurity) *See page 22*
I like complex computing systems and designing new software for defence and enterprise.	Software engineer · software and applications programmer · agile developer · web developer	Bachelor of Software Engineering (Honours) *See page 25*
I like IT, but not sure which area.	Business analyst · analyst programmer · user interface designer · network administrator · system administrator	Bachelor of Information Technology *See page 19*
I like how IT is applied to business settings.	Business analyst · IT manager · system administrator	Bachelor of Information Technology + choose a business minor *See page 19*
I like collaborating with designers, creating simulations, and gaming.	Game developer · mobile games developer · game programmer · simulation developer · asset creator · software developer · SCRUM developer	Bachelor of Information Technology (Games and Entertainment Design) *See page 20*
I like mathematics and applying that to solve problems.	Big data visualiser · data scientist · big data researcher · data miner	Bachelor of Mathematics (Data Science) *See page 27*
I like coding, testing, debugging software and interpreting customer requirements for IT solutions.	Software developer · analyst programmer · cloud developer · web developer · SCRUM developer · front/back-end developer	Bachelor of Information Technology (Software Development) *See page 23*

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.

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.

DXC.technology

A SUCCESSFUL START

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

unisa.edu.au/ICC

ICC INNOVATION & COLLABORATION CENTRE

ENGINEER YOUR FUTURE

YOUR ENGINEERING CAREER STARTS HERE

Have you completed SACE Stage 2 Mathematical Methods?

Yes →

No ↓

Have you completed SACE Stage 1 Mathematics or SACE Stage 2 General Mathematics?

Yes →

No ↓

Do you need an alternative entry pathway?

Yes →

Bachelor of Engineering (Honours) (Flexible Entry)

If you haven't completed Stage 2 Mathematical Methods or you're not sure what engineering specialisation you want to study, then our Bachelor of Engineering (Honours) (Flexible Entry) is for you. The one-year program has different options depending on the level of mathematics you have completed. You'll complete first-year engineering courses and develop the mathematical skills needed to transfer into your preferred engineering specialisation with up to one year of study credit.

See page 32 for more information

You can study a Diploma in STEM (Engineering) through UniSA College.

unisa.edu.au/college

ENGINEERS AUSTRALIA

DID YOU KNOW?

Most UniSA engineering degrees are accredited by Engineers Australia.

Bachelor of Engineering (Honours)

Civil engineering

Civil engineers create the infrastructure that supports our lives. They design, construct and maintain our bridges, airports, roads, railways, water and waste supply.

- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Civil and Construction Management)
- Bachelor of Engineering (Honours) (Civil and Structural)

Electrical and electronic engineering

Electrical and electronic engineering focuses on electrically powered tools, devices or systems that generate, transmit or distribute electrical energy. It also powers systems that collect, process and deliver information to help automate services.

- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Electrical and Mechatronic)

Mechanical engineering

Mechanical engineering combines engineering physics and mathematics principles with materials science to design, develop, manufacture, produce and maintain mechanical systems. You can work in industries such as manufacturing, automotive, defence, construction, robotics and more.

- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)
- Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

Associate Degree in Engineering

Want to study engineering but not sure if a bachelor's degree is right for you? Then try our Associate Degree in Engineering delivered by UniSA Online. After you have completed this flexible two-year program, you can transfer into a Bachelor of Engineering (Honours) degree with up to 1.5 years of study credit. Criteria apply.

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*

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

CONTENTS

Published Selection Rank scores are indicative of February 2023 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.

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: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*
SAIBT pathways: *Diploma of 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 2023	**66.00**		cut-off 2022 **CIV**

Part-time study available *Honours available*

Choose two IT minors from areas like Business Systems, Cyber Security, Games and Entertainment, Networking, and Software Development.

Or choose one IT minor and one cross-disciplinary minor from areas like 3D Animation, Visual Effects, Digital Media, Innovation and Entrepreneurship, Marketing, Data Analytics, 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, 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.

UniSA's IT degrees 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 Information Technology (Cyber Security)
- Master of Data Science

DEGREE STRUCTURE

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

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

To explore all cross-disciplinary minors, visit unisa.edu.au/msm

STUDY ON DEMAND

Want to kickstart your career in IT?
You can study a two-year Associate Degree in Information Technology that's recognised by industry through UniSA Online. You can also transfer into one of our many IT degrees with study credit. Criteria apply.

unisaonline.edu.au/asc-deg-IT

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: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*
SAIBT pathways: *Diploma of Technology*

SATAC code	434881	Program code	LBCP
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	66.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	66.00			cut-off 2023	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.

UniSA's IT degrees 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
	Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio
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
THIRD YEAR	Security Foundations Android Games Development Design Patterns with C++ Operating Systems and Tool Chains
	Small Business for Professionals Game Engines ICT Capstone Project Elective

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

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: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*
SAIBT pathways: *Diploma of Technology*

SATAC code		434891	Program code		LBCP
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	66.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	66.00			cut-off 2023	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 that will prepare you for industry certification exams in Cisco.

UniSA's IT degrees 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 Information Technology (Cyber Security)
- Master of Data Science

DEGREE STRUCTURE

FIRST YEAR	Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	Network Security Systems Administration CCNP Enterprise Services Risk Management and Governance
	Object Oriented Programming Data Driven Web Technologies System Requirements and User Experience System Requirements Studio	Big Data Concepts Human Factors and Cyber Criminal Behaviour ICT Capstone Project Elective
SECOND YEAR	Network Design and Realisation System Design Studio Network Architecture Security Foundations	
	Agile Development and Governance Project Studio Cloud, Virtualisation and Storage 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: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*
SAIBT pathways: *Diploma of Technology*

SATAC code		434871	Program code		LBCP
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	66.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	66.00			cut-off 2023	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++ web technology, 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.

UniSA's IT degrees 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 · IT consultant

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 Information Technology (Cyber Security)
- Master of Data Science

DEGREE STRUCTURE

FIRST YEAR	Information Technology Fundamentals Problem Solving and Programming Network Fundamentals Design Thinking Studio	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	Cloud and Concurrent Programming AI and Machine Learning ICT Capstone Project Elective
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 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: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	434211	Program code	LHSG
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	72.00			cut-off 2023	CIV

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 and learn specialist software engineering skills required to design and build large, complex systems. Develop your ability to use your creativity, critical thinking, communication and problem-solving skills to solve business problems with software solutions. Study core courses 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 final year, you'll put skills into practice through a 12-month IT project, to deliver a quality software artefact. You'll graduate with an honours degree professionally accredited by the Australian Computer Society.

This program shares common first-year courses with our IT degrees, 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 Information Technology (Cyber Security)
- Master of Data Science

DEGREE STRUCTURE

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

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

DID YOU KNOW?

You can study our Bachelor of Software Engineering (Honours) Industry Partner Program while working for one of our industry partners. Gain invaluable experience at companies like BAE as soon as you start your degree.

unisa.edu.au/software-engineering-industry-program

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

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). Applicants are selected on academic merit and the availability of a supervisor in the proposed area of research.

FURTHER STUDY

- Master Information Technology (Enterprise Management)
- Master of Information Technology (Cyber Security)
- Master of Data Science
- Master of Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

FIRST YEAR	Research Methods Honours Minor Thesis Preparation Honours Minor Thesis 1 Elective
	2x Electives 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*
UniSA Online pathways: *Literacy and Numeracy Test with relevant work experience*
UniSA College pathways: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

Program code	XBIT	TAFE/VET guaranteed:	CIV

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

1. *Check your eligibility at unisaonline.edu.au/eligibility*
2. *Gather your relevant documents*
3. *Complete your application and send through your documents*

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

DEGREE STRUCTURE

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

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*
UniSA Online pathways: *Literacy and Numeracy Test with relevant work experience*
UniSA College pathways: *Diploma in STEM (Information Technology) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

Program code	XBDA	TAFE/VET guaranteed:	CIV

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

1. *Check your eligibility at unisaonline.edu.au/eligibility*
2. *Gather your relevant documents*
3. *Complete your application and send through your documents*

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

DEGREE STRUCTURE

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

DID YOU KNOW?

You can fast-track your career and study a two-year Associate Degree in Data Analytics through UniSA Online. You can also transfer into one of our many IT degrees with study credit. Criteria apply.

unisaonline.edu.au/asc-deg-data

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: *Diploma in STEM or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

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 2023	75.00			cut-off 2023	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.

UniSA's maths degrees share many common 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
	Calculus 2 Linear Algebra Object Oriented Programming Data Driven Web Technologies
SECOND YEAR	Applied Probability Data Structures Essentials Linear Programming and Networks Discrete Mathematics
	Mathematical Communication Mathematical Modelling Data Analytics using R Big Data Concepts
THIRD YEAR	Analytics for Decision Making Predictive and Descriptive Analytics Visualisation for Data Science Mathematics Clinic 1 OR Elective
	Business Intelligence and Analytics Text and Social Media Analytics Mathematical Sciences Project OR Mathematics Clinic 2 Elective

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

PACKAGE THIS 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: *Diploma in STEM or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	434161	Program code	LBMH
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed **75.00**	guaranteed **A, B, B**	guaranteed	**Dip**
cut-off 2023 **75.00**		cut-off 2023	**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 modelling, optimisation, applied probability and differential equations. Focus on building your mathematical and programming skills with additional courses in calculus, algebra and fundamentals of programming. Gain hands-on experience through a major maths project or as part of the Maths Clinic program, and work on a real-world challenge with industry 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.

UniSA's maths degrees share many common 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
	Calculus 2 Linear Algebra Object Oriented Programming Geometry
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
THIRD YEAR	Mathematics Clinic 1 OR Elective Topics in Mathematics 1 Multivariable Calculus Elective
	Mathematics Clinic 2 OR Mathematical Sciences Project Topics in Mathematics 2 Optimisation Elective

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

PACKAGE THIS 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.*
Assumed knowledge: *none*
UniSA College pathways: *Diploma in STEM (Science and the Environment) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	434201	Program code	LBSC
Year 12 Selection Rank:	Year 12 Grades:	TAFE/VET:	
guaranteed **70.00**	guaranteed **B, B, B**	guaranteed	**Dip**
cut-off 2023 **62.00**		cut-off 2023	**CIV**

Part-time study available *Honours available*

Choose two majors from Applied Physics, Biology for Science, Mathematics and Statistics, Chemistry for Science, Ecosystem Sciences, 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 for Science, Mathematics and Statistics and Chemistry for Science, to increasingly critical areas such as Ecosystem Sciences, 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.

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)
- Master of Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

APPLIED PHYSICS 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

BIOLOGY FOR SCIENCE 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
PLUS one Biology Group 2 Course:
- Biochemistry
- Physiology
- Microbiology
- Immunology
- Genetics
- Evolution

CHEMISTRY FOR SCIENCE 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

ECOSYSTEM SCIENCES MAJOR

Environment, Society and Climate
Biodiversity for the Environment
Sustainable Ecosystems
Ecology
Environmental Interpretation and Community Engagement
Fire and Culture
Restoration Ecology
Park and Ecotourism Management

GEOSCIENCE AND BIOGEOCHEMISTRY MAJOR

Earth and Climate Systems
Environmental Chemistry
Engineering and Environmental Geology
Soils in the Australian Landscape
Microbial Ecology
Earth and Landscape Evolution
Environmental Pollution and Monitoring
PLUS one of the following two courses:
- Waste and Wastewater Treatment
- Water Quality Modelling

MATHEMATICS MAJOR

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

COMPUTER SCIENCE

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

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: *Diploma in STEM (Science and the Environment) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

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 2023	64.00			cut-off 2023	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 environmental electives in second and third year. 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 and Climate Systems
- Environment, Society and Climate
- Introduction to Surveying and Spatial Sciences

- Environmental Analytical Methods
- Spatial Data Acquisition and Analysis
- Soils in the Australian Landscape
- Sustainable Ecosystems

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

- Environmental Chemistry
- Web Cartography
- Environmental Elective 1
- Environmental Elective 2

THIRD YEAR
- Elective
- Environmental Elective 3
- Environmental Elective 4
- Environmental Elective 5

- Environmental and Geospatial Field Project
- Ecosystem Monitoring
- Environmental Elective 6

"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."

Joel Schiller | Environmental Science Graduate

Bachelor of Outdoor and Environmental Leadership

unisa.edu.au/enviro

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

Prerequisites: *none*
Assumed knowledge: *none*
UniSA College pathways: *Diploma in Health (Sport) or Diploma in STEM (Science and the Environment); or UniSA Foundation Studies + Undergraduate Certificate in University Studies (Health) or or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	414503	Program code	IBOE
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	70.00	guaranteed	B, B, B	guaranteed	CIV
cut-off 2023	65.00			cut-off 2023	CIV

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 in Ecosystem Sciences or select elective courses in areas like community engagement and sustainability, management, counselling and interpersonal skills, Aboriginal cultures, or biology for education. 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.

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 and Climate Systems
- Environment, Society and Climate
- Foundations of Outdoor Leadership

- Soils in the Australian Landscape
- Sustainable Ecosystems
- Caring for Country
- Introduction to Group and Team Psychology

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

THIRD YEAR
- Leadership in Aquatic Environments
- Park and Ecotourism Management
- 2x Electives

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

Bachelor of Applied Science (Honours)

unisa.edu.au/science

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

Prerequisites: *none*
Assumed knowledge: *none*

SATAC code	4BH022	Program code	LHAS

Part-time study available

Prepare for advanced study and research in a range of science disciplines, including chemistry, applied physics, materials science, agricultural and food science, environmental science, Earth science and ecology. Study courses in research methods, principles and ethics then complete a research project that includes laboratory work and/or field work, data collection and analysis. Develop an honours thesis and present your findings to academics, peers and relevant industry and government stakeholders. Graduate with a competitive advantage and a qualification that will broaden your career opportunities or prepare you for postgraduate study or research.

CAREERS

This program can lead to a variety of careers in professional scientific research, environmental management or consultancy, or product development and quality control

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. Applicants are selected on academic merit and the availability of a supervisor in the proposed area of research.

Relevant disciplines typically include science, technology, engineering or environmental studies. Applicants with qualifications in other disciplines are encouraged to apply and will be assessed on a case-by-case basis.

FURTHER STUDY

- Master of Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

FIRST YEAR	Research Methods Honours Minor Thesis Preparation 2x Electives
	Scientific Practice Honours Minor Thesis 1 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.

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

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 algebra, 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. Applicants are selected on academic merit and the availability of a supervisor in the proposed area of research.

FURTHER STUDY

- Master of Data Science
- Master of Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

FIRST YEAR	Research Methods Honours Minor Thesis Preparation Honours Minor Thesis 1 Elective
	Honours Minor Thesis 2 2x Electives

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 Engineering (Honours) (Flexible Entry)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time*		Professional Practice Program	

Prerequisites: *SACE Stage 1 Mathematics or equivalent*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*
SAIBT pathways: *Diploma of Technology*

SATAC code	434242	Program code	LHEF
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	70.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	70.00			cut-off 2023	CIV

Part-time study available

**Transfer into your chosen engineering specialisation at the end of 12 months of full-time study.*

Begin your pathway to a UniSA engineering degree. This flexible program allows you to complete first-year engineering courses while catching up on the required mathematics prerequisites. You'll then transfer into a Bachelor of Engineering (Honours) in a specialisation of your choice and receive up to a full year of study credit. This degree is also the ideal choice if you're unsure which area of engineering you'd like to specialise in. Learn about the fundamentals in engineering practices, mathematics, engineering materials, computer applications, engineering design and innovation, mechanics, and electronic systems. You'll go on to complete an honours degree in civil engineering, electrical engineering, or mechanical engineering.

To be eligible for entry, students must have completed SACE Stage 1 Mathematics, SACE Stage 2 General Mathematics or SACE Stage 2 Mathematical Methods.

SPECIALISATIONS

- Civil
- Civil and Construction Management
- Civil and Structural
- Electrical and Electronic
- Electrical and Mechatronic
- Mechanical
- Mechanical and Advanced Manufacturing
- Mechanical and Mechatronic

CAREERS

Depending on your chosen specialisation, your career options can include:

Civil engineer · construction manager · project engineer · civil project manager · structural engineer · electrical engineer · electrical design engineer · mechanical engineer · mechatronics engineer · industrial engineer · renewable energy engineer · automation engineer · robotics engineer · electronics engineer

DEGREE STRUCTURE

For students who have completed SACE Stage 1 Mathematics, or equivalent, with a C- grade or higher:	For students who have completed SACE Stage 2 Mathematical Methods, or equivalent, with a C- grade or higher:
Programming Concepts Engineering Materials Sustainable Engineering Practice Essential Mathematics 1: Algebra and Trigonometry	Programming Concepts Engineering Materials Sustainable Engineering Practice Mathematical Methods for Engineers 1
Electrical and Electronic Systems Engineering Mechanics Engineering Design and Innovation Essential Mathematics 2: Calculus	Electrical and Electronic Systems Engineering Mechanics Engineering Design and Innovation Mathematical Methods for Engineers 2
For students who have completed SACE Stage 2 General Mathematics, or equivalent, with a C- grade or higher:	
Programming Concepts Engineering Materials Sustainable Engineering Practice Essential Mathematics 2: Calculus	
Electrical and Electronic Systems Engineering Mechanics Engineering Design and Innovation Mathematical Methods for Engineers 1	

STUDY ON DEMAND

Want to kickstart your career in engineering? You can study a two-year Associate Degree in Engineering through UniSA Online.

You can also transfer into one of our many engineering degrees with study credit. Criteria apply.

unisaonline.edu.au/asc-deg-engineering

Bachelor of Engineering (Honours) (Civil)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434481	Program code	LHMI
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:
guaranteed	72.00	guaranteed	B, B, B	guaranteed Dip
cut-off 2023	72.00			cut-off 2023 CIV

Part-time study available

Learn to design and maintain critical infrastructure such as bridges, buildings, airports, roads, railways and water systems. Focus on core courses in road design, soil mechanics, hydraulics and hydrology, geotechnical engineering, and reinforced concrete design. Tailor your studies specialising in civil engineering, structural engineering or construction management. Access industry-standard facilities on campus, including the largest strong floor in Australia, along with high-tech testing and computer-modelling equipment. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Civil engineer · geotechnical engineer · water resources engineer · environmental engineer · engineering consultant · project engineer · transport engineer · structural engineer · project coordinator

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Civil and Construction Management)
- Bachelor of Engineering (Honours) (Civil and Structural)
- Bachelor of Construction Management (Honours)

FURTHER STUDY

- Master of Engineering – *civil specialisations*
- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice	
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation	
SECOND YEAR	Engineering Modelling Mechanics of Materials Introduction to Surveying and Spatial Sciences Engineering and Environmental Geology	
	Introduction to Water Engineering Road Design and Traffic Management Project Management for Engineers Civil Engineering Techniques	
THIRD YEAR	Design Management for Engineers Soil Mechanics Steel and Timber Design Hydraulics and Hydrology	
	Water Resources Systems Design Geotechnical Engineering Reinforced Concrete Design Design of Flood and Drainage Systems	
FOURTH YEAR	Engineering Industry Experience Engineering Capstone Experience A Engineering Honours Project A Traffic Engineering Civil Engineering Elective 1	
	Engineering Capstone Experience B Engineering Honours Project B Advanced Soil Mechanics Civil Engineering Elective 2	

FAST-TRACK TO MASTERS

Package a Bachelor of Engineering (Honours) (Civil) with a Master of Engineering in your chosen specialisation and graduate in just five years.

Civil and Infrastructure
SATAC code: 434013

Water Resource Management
SATAC code: 434014

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

Bachelor of Engineering (Honours) (Civil and Construction Management)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods.*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434151	Program code	LHMI
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:
guaranteed	72.00	guaranteed	B, B, B	guaranteed Dip
cut-off 2023	72.00			cut-off 2023 CIV

Part-time study available

Study South Australia's only bachelor's degree combining civil engineering and construction management. Learn to plan, implement and deliver major construction projects while meeting critical deadlines and budgets. Develop a strong foundation of engineering knowledge in your first year, with specialist courses in construction management and scheduling starting from third year. Access industry-standard facilities on campus, including the largest strong floor in Australia, along with high-tech testing and computer-modelling equipment. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Civil project manager · civil construction manager · civil engineer · geotechnical engineer · project engineer · engineering consultant · project coordinator · capital works manager

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Civil and Structural)
- Bachelor of Construction Management (Honours)

FURTHER STUDY

- Master of Engineering – *civil specialisations*
- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice	
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation	
SECOND YEAR	Engineering Modelling Mechanics of Materials Introduction to Surveying and Spatial Sciences Engineering and Environmental Geology	
	Introduction to Water Engineering Road Design and Traffic Management Civil Engineering Techniques Project Management for Engineers	
THIRD YEAR	Design Management for Engineers Soil Mechanics Steel and Timber Design Hydraulics and Hydrology	
	Water Resources Systems Design Geotechnical Engineering Reinforced Concrete Design Construction Scheduling	
FOURTH YEAR	Engineering Industry Experience Engineering Capstone Experience A Engineering Honours Project A Contract Administration Principles of Project Management	
	Engineering Capstone Experience B Engineering Honours Project B Advanced Construction Management Building Estimating	

FAST-TRACK TO MASTERS

Package a Bachelor of Engineering (Honours) (Civil and Construction Management) with a Master of Engineering (Civil and Infrastructure) and graduate in just five years.

SATAC code: 434005

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

"Our teachers had real experience working in civil, structural and geotechnical engineering, so we had a great connection between what was happening in industry and what we were learning."

Amelia Rosella | Civil Engineering and Project Management Graduate / Project Engineer, Hansen Yuncken

Bachelor of Engineering (Honours) (Civil and Structural)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434941	Program code		LHMI
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	72.00			cut-off 2023	CIV

Part-time study available

Build a career constructing, managing and maintaining the civil infrastructure that supports modern living. Develop the skills to design the formation of structures like bridges, buildings, airports, tunnels, ports and water systems. Study specialist structural engineering courses covering structural analysis, earthquake and masonry engineering, and advanced steel and concrete structures. Learn how to manage the social, environmental and financial components of large-scale construction projects to ensure they are delivered with a minimal footprint, on time and on budget. Access industry-standard facilities on campus, including the largest strong floor in Australia, along with high-tech testing and computer-modelling equipment. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Structural engineer · civil engineer · structural design engineer · civil designer · construction manager · environmental engineer · transport engineer · geotechnical engineer · project coordinator

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Civil and Construction Management)
- Bachelor of Construction Management (Honours)

FURTHER STUDY

- Master of Engineering – *civil specialisations*
- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
SECOND YEAR	Engineering Modelling Mechanics of Materials Introduction to Surveying and Spatial Sciences Engineering and Environmental Geology
	Introduction to Water Engineering Road Design and Traffic Management Civil Engineering Techniques Project Management for Engineers
THIRD YEAR	Design Management for Engineers Soil Mechanics Steel and Timber Design Hydraulics and Hydrology
	Water Resources Systems Design Geotechnical Engineering Reinforced Concrete Design Structural Analysis
FOURTH YEAR	Engineering Industry Experience Engineering Capstone Experience A Engineering Honours Project A Civil Engineering Elective 1 Advanced Concrete Structures
	Engineering Capstone Experience B Engineering Honours Project B Earthquake and Masonry Engineering Advanced Steel Structures

FAST-TRACK TO MASTERS

Package a Bachelor of Engineering (Honours) (Civil and Structural) with a Master of Engineering (Civil and Infrastructure) and graduate in just five years.

SATAC code: 434006

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

Bachelor of Engineering (Honours) (Electrical and Electronic)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434951	Program code		LHIF
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	72.00			cut-off 2023	CIV

Part-time study available

Graduate as an electrical and electronics engineer, focused on the design, development and optimisation of electrical and electronic devices, equipment, technology and systems. Learn about the generation, transmission and distribution of electrical energy. Study analogue electronics, digital electronics, embedded systems, electrical machines, computer networking, signal processing and control systems, and prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments. Access our industry-standard facilities, including the Power Systems Laboratory and Digital Electronics Laboratory. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Electrical engineer · electrical design engineer · electronics engineer · power systems engineer · renewable energy engineer · control systems engineer · telecommunications engineer · commissioning engineer · electrical project manager

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Electrical and Mechatronic)
- Bachelor of Software Engineering (Honours)

FURTHER STUDY

- Master of Engineering – *electrical specialisations*
- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
SECOND YEAR	Mathematical Methods for Engineers 3 Electrical Circuit Analysis Data Communications Technologies Design Management for Engineers
	Analogue Devices and Circuits Digital Logic Fundamentals Signals and Systems Project Management for Engineers
THIRD YEAR	Control Systems Microcontroller Interfacing and Applications Electrical Machines Power System Fundamentals
	Digital Communications Embedded System Design Renewable Energy Systems Digital Signal Processing
FOURTH YEAR	Engineering Industry Experience Engineering Capstone Experience A Engineering Honours Project A Advanced Digital and RF Systems Elective
	Engineering Capstone Experience B Engineering Honours Project B Power Electronics Elective

FAST-TRACK TO MASTERS

You can package a Bachelor of Engineering (Honours) (Electrical and Electronic) with select master's qualifications and graduate in just five years.

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

"I worked with a huge variety of equipment during my studies, including remote control robots, wearable electronics, pneumatics and industrial motors. I also spent lots of time doing practicals, so I got firsthand experience with the tools that make things happen in industry."

Liam Mallamo | Electrical and Electronic Engineering Graduate / Electrical Engineer, SA Power Networks

Bachelor of Engineering (Honours) (Electrical and Mechatronic)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434451	Program code		LHIF
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	72.00			cut-off 2023	CIV

Part-time study available

Combine studies in electrical and mechatronic engineering, studying the fundamental principles underlying the generation, transmission, distribution and utilisation of electrical energy. Learn how to design, develop, control and integrate electromechanical devices and platforms, including automation systems and robots. Prepare for Industry 4.0 using cutting-edge software for 3D design, analysis, simulation and collaborative digital environments. Access our industry-standard facilities, including the Power Systems Laboratory and Digital Electronics Laboratory. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Mechatronics engineer · mechatronic device designer · power systems engineer · renewable energy engineer · control systems engineer · automation engineer · robotics engineer · electronics engineer

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

FURTHER STUDY

- Master of Engineering – *electrical specialisations*
- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
SECOND YEAR	Mathematical Methods for Engineers 3 Electrical Circuit Analysis Design Management for Engineers Mechanical Engineering Practice
	Analogue Devices and Circuits Digital Logic Fundamentals Signals and Systems Project Management for Engineers
THIRD YEAR	Control Systems Microcontroller Interfacing and Applications Electrical Machines Electromechanics
	Embedded System Design Engineering Dynamics Robotics and Automation Digital Communications
FOURTH YEAR	Engineering Industry Experience Engineering Capstone Experience A Engineering Honours Project A Advanced Control and Signal Processing Machine Learning and Vision Systems
	Engineering Capstone Experience B Engineering Honours Project B Mobile Autonomous Robotic Systems Intergrated Industrial Actuation

FAST-TRACK TO MASTERS

You can package a Bachelor of Engineering (Honours) (Electrical and Mechatronic) with select master's qualifications and graduate in just five years.

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

Bachelor of Engineering (Honours) (Mechanical)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434321	Program code		LHMR
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	72.00			cut-off 2023	CIV

Part-time study available

Become a mechanical engineer, creating innovative designs and mechanised solutions that use power, advanced mechanisms and digital tools. Study the key principles of motion, energy and force. Build a career designing components, machines, or systems that meet human and environmental needs such as engines, appliances, generators and production equipment. Develop the skills to take a product to market, focusing on the full production cycle from functional design and practicality to aesthetics, manufacturing and maintenance. Prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments. Benefit from valuable practical experience by participating in the Warman Design and Build Competition, applying hands-on skills and knowledge to a complex engineering project. Access our industry-standard facilities, including the Robotics and Machine Vision, and the Sustainable Energy Systems learning spaces. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Mechanical engineer · industrial engineer · mechanical design engineer · maintenance engineer · hydraulics engineer · energy system engineer · product development manager · entrepreneur · project coordinator

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)
- Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

FURTHER STUDY

- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
SECOND YEAR	Mathematical Methods for Engineers 3 Mechanical Engineering Practice Mechanics of Materials Manufacturing Processes
	Engineering Dynamics Fluid and Energy Engineering Mechanical Design Practice Project Management for Engineers
THIRD YEAR	Control Systems Computer Aided Engineering Practice Energy Conversion and Management Engineering Modelling
	Mechanics of Machines Design Management for Engineers Advanced Thermo-Fluid Engineering Sustainable Development and Design Practice Engineering Industry Experience
FOURTH YEAR	Engineering Capstone Experience A Engineering Honours Project A Vibration Analysis of Mechanical Systems Discipline Elective 1
	Engineering Capstone Experience B Engineering Honours Project B Energy System Modelling and Design Discipline Elective 2

FAST-TRACK TO MASTERS

You can package a Bachelor of Engineering (Honours) (Mechanical) with select master's qualifications and graduate in just five years.

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code		434791 Program code			LHMR
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	72.00			cut-off 2023	CIV

Part-time study available

Integrate mechanical engineering knowledge with high-precision machinery, and advanced manufacturing and management techniques. Combine information and communication technologies with automation and innovative manufacturing practices to improve products and processes. Explore the latest in manufacturing such as intelligent systems, additive manufacturing, digital manufacturing, and industrial actuation and automation. Prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments. Benefit from valuable practical experience by participating in the Warman Design and Build Competition, applying hands-on skills and knowledge to a complex engineering project. Access our industry-standard facilities, including the Robotics and Machine Vision and the Sustainable Energy Systems learning spaces. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Mechanical engineer · manufacturing engineer · industrial engineer · systems engineer · CAE engineer · quality engineer · production manager · entrepreneur · project coordinator

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

FURTHER STUDY

- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
SECOND YEAR	Engineering Modelling Mechanical Engineering Practice Mechanics of Materials Manufacturing Processes
	Engineering Dynamics Fluid and Energy Engineering Mechanical Design Practice Project Management for Engineers
THIRD YEAR	Design for Manufacture and Assembly Computer Aided Engineering Practice Energy Conversion and Management Intelligent Production Systems
	Mechanics of Machines Design Management for Engineers Design in Plastics and Advanced Composites Robotics and Automation Engineering Industry Experience
FOURTH YEAR	Vibration Analysis of Mechanical Systems Engineering Capstone Experience A Engineering Honours Project A Total Quality Management
	Engineering Capstone Experience B Engineering Honours Project B Integrated Industrial Actuation Advanced Thermo-Fluid Engineering

FAST-TRACK TO MASTERS

You can package a Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing) with select master's qualifications and graduate in just five years.

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

The Unstoppables

RIGHT FORMULA-1

Being an intern at McLaren Technologies, the home of Formula 1, set in motion a fast-paced career that has continued on and off the track.

UniSA engineering grad and *UNSTOPPABLE* force, Dr Caleb Sawade, explores how virtual reality and robotics can be used to accelerate learning for elite athletes and solve complex business problems for Fortune 500 companies.

Dr Caleb Sawade
Principal at Deloitte Digital
Bachelor of Engineering (Honours) (Mechatronic)

Hear more from our unstoppable people

Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *SACE Stage 2 Mathematical Methods*
Assumed knowledge: *SACE Stage 2 Physics*
UniSA College pathways: *Diploma in STEM (Engineering)*
UniSA pathways: *Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)*
SAIBT pathways: *Diploma of Engineering*

SATAC code	434781	Program code	LHMR
Year 12 Selection Rank:		Year 12 Grades:	TAFE/VET:
guaranteed	72.00	guaranteed B, B, B	guaranteed Dip
cut-off 2023	72.00		cut-off 2023 CIV

Part-time study available

Learn to combine mechanical components with computing, integrated automation and digital control to create new products and improve technical operating systems. Explore new ways to make systems and technologies smarter to help meet human and environmental needs by studying the latest in robotics, machine tool control and machine vision. Prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments. Benefit from valuable practical experience by participating in the Warman Design and Build Competition, applying hands-on skills and knowledge to a complex engineering project. Access our industry-standard facilities, including the Robotics and Machine Vision, Digital Electronics Laboratory, and the Sustainable Energy Systems learning spaces. Graduate career ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. You can also take up opportunities to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership, along with comparable membership with international institutions. Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

UniSA's specialised engineering degrees share common first-year courses, so students have the option to transfer into a different specialisation and receive study credit for successfully completed courses. This excludes the Bachelor of Engineering (Honours) (Flexible Entry).

CAREERS

Mechanical engineer · systems engineer · mechatronic device designer · mechatronic development engineer · automation engineer · robotics engineer · electronics engineer · entrepreneur · project coordinator

YOU MIGHT ALSO LIKE

- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)
- Bachelor of Engineering (Honours) (Electrical and Mechatronic)

FURTHER STUDY

- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice	
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation	
SECOND YEAR	Mathematical Methods for Engineers 3 Mechanical Engineering Practice Mechanics of Materials Electrical Circuit Analysis	
	Engineering Dynamics Fluid and Energy Engineering Mechanical Design Practice Project Management for Engineers	
THIRD YEAR	Control Systems Computer Aided Engineering Practice Energy Conversion and Management Electromechanics	
	Mechanics of Machines Digital Logic Fundamentals Robotics and Automation Engineering Industry Experience Design Management for Engineers	
FOURTH YEAR	Engineering Capstone Experience A Engineering Honours Project A Advanced Control and Signal Processing Machine Learning and Vision Systems	
	Engineering Capstone Experience B Engineering Honours Project B Integrated Industrial Actuation Mobile Autonomous Robotic Systems	

FAST-TRACK TO MASTERS

You can package a Bachelor of Engineering (Honours) (Mechanical and Mechatronic) with select master's qualifications and graduate in just five years.

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

"If you're practically minded like me, then studying at UniSA is the best choice. After several weeks of working on theoretical-based calculations and investigations, it was extremely rewarding to see actual products and improvements being made that we could then test and apply in real life."

Anthony Richards | Mechanical Engineering Student

Bachelor of Construction Management

unisa.edu.au/construction

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

Prerequisites: *none.*
Assumed knowledge: *none*
UniSA College pathways: *Diploma in STEM (Construction) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	414301	Program code	IBBE
Year 12 Selection Rank:		Year 12 Grades:	TAFE/VET:
guaranteed	67.00	guaranteed B, B, B	guaranteed Dip
cut-off 2023	67.00		cut-off 2023 CIV

Part-time study available *Honours available*

Build a professional career in the construction industry focusing on the development of residential, commercial and high-rise buildings. Benefit from a degree informed by UniSA research in areas like smart cities and artificial intelligence in construction. Learn from experienced teachers, including construction management professionals employed in industry. Study core courses in construction, building surveying, quantity surveying, law, economics, construction management and communication. Develop your knowledge in estimating, contract administration, scheduling and cost planning. Interact and collaborate with new technologies, including building information modelling and immersive virtual reality. Graduate with a degree professionally endorsed by the Australian Institute of Building Surveyors and be eligible to apply for accreditation as a Level 2 Building Surveyor. Continue your studies and graduate with honours through the Bachelor of Construction Management (Honours) with only one year of extra study — *criteria apply*.

Students that successfully complete this program can transfer directly into the fourth and final year of the Bachelor of Construction Management (Honours) program. Eligibility criteria apply.

CAREERS

Construction manager · site supervisor · estimator · construction scheduler · contract administrator · project coordinator · quantity surveyor · building surveyor

YOU MIGHT ALSO LIKE

- Bachelor of Construction Management (Honours)
- Bachelor of Architectural Studies
- Bachelor of Business (Property)
- Bachelor of Engineering (Honours) (Civil and Construction Management)

FURTHER STUDY

- Graduate Diploma in Building Surveying
- Master of Project and Program Management
- Master of Project and Program Management (Contract Management)

DEGREE STRUCTURE

FIRST YEAR	Introduction to Contract Administration Construction 1 Introduction to Construction Management Construction Communication	
	Construction Materials Introduction to Construction Business Management Structures 1 Elective	
SECOND YEAR	Quantity Surveying Practice 1 Contract Administration Construction 2 Structures 2	
	Building Estimating Construction Cost Planning Construction Scheduling Building Services	
THIRD YEAR	Development Regulation Project Appraisal Construction Environmental Science Building Surveying	
	Construction Operations and Safety Advanced Contract Administration Fire Technology Construction 3	

Bachelor of Construction Management (Honours)

unisa.edu.au/construction

City East Campus			
On-campus		Intakes: Feb and Jul	
4 years full-time		Professional Practice Program	

Prerequisites: *none.*
Assumed knowledge: *none*
UniSA College pathways: *Diploma in STEM (Construction) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*
UniSA pathways: *Bachelor of Construction Management or Bachelor of Construction Management (UniSA Online)*

SATAC code		414021 Program code			IHCN
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	78.00	guaranteed	A, A, B	guaranteed	Dip
cut-off 2023	78.00			cut-off 2023	CIV

Part-time study available

Prepare for future leadership and managerial roles in the construction industry. Study South Australia's only honours degree combining construction management, quantity surveying and building surveying. Learn the fundamentals of construction including law, management, communication, materials and business. Interact and collaborate with new technologies such as building information modelling and immersive virtual reality. You'll also study with digital tools to learn about data driven decision-making. Develop an understanding of more complex fields such as quantity surveying, building surveying, contract administration, development regulation, development economics and fire engineering. Learn to operate as an adaptable professional rapidly learning skills and evolving with advancements in technology and sustainable building practices. Graduate career ready by completing the Professional Practice Program. Gain at least 450 hours of experience through engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking and events. Benefit from exposure to industry, real workplace settings and the chance to build your professional contacts. Depending on your final year specialisations, you'll be able to apply for corporate membership with the Australian Institute of Building, the Australian Institute of Building Surveyors (Level 1), the Australian Institute of Quantity Surveyors, and/or the Royal Institute of Chartered Surveyors (UK). Complete your bachelor's degree and a master's qualification in just five years through our *Fast-track to Masters* package.

Students that successfully complete the three-year Bachelor of Construction Management can also transfer directly into the fourth and final year of this program. Eligibility criteria apply.

CAREERS

Construction manager · capital works manager · quantity surveyor · building surveyor · site supervisor · estimator · construction planner · contract administrator · bid manager

YOU MIGHT ALSO LIKE

- Bachelor of Construction Management
- Bachelor of Architectural Studies
- Bachelor of Business (Property)
- Bachelor of Engineering (Honours) (Civil and Construction Management)

FURTHER STUDY

- Graduate Diploma in Building Surveying
- Master of Project and Program Management
- Master of Project and Program Management (Contract Management)

DEGREE STRUCTURE

FIRST YEAR
- Introduction to Contract Administration
- Construction 1
- Introduction to Construction Management
- Construction Communication
- Construction Materials
- Introduction to Construction Business Management
- Structures 1
- Elective

SECOND YEAR
- Quantity Surveying Practice 1
- Contract Administration
- Construction 2
- Structures 2
- Building Estimating
- Construction Environmental Science
- Construction Scheduling
- Building Services

THIRD YEAR
- Development Regulation
- Project Appraisal
- Construction Cost Planning
- Building Surveying
- Construction Operations and Safety
- Advanced Contract Administration
- Fire Technology
- Construction 3

FOURTH YEAR
- Construction Management Research Principles
- Integrated Project
- AND two of the following three specialisation courses:
- Quantity Surveying Specialisation:
  - Quantity Surveying Practice 2
- Building Surveying Specialisation:
  - Asset Management and Building Pathology
- Construction Management Specialisation:
  - Construction Business Management
- Construction Management Honours Research Project
- Industry Experience
- AND two of the following three specialisation courses:
- Quantity Surveying Specialisation:
  - Advanced Quantity Surveying
- Building Surveying Specialisation:
  - Advanced Building Surveying
- Construction Management
  - Specialisation: Advanced Construction Management

FAST-TRACK TO MASTERS

You can package a Bachelor of Construction Management (Honours) with select master's qualifications and graduate in just five years.

Go online to see the full list of options.

unisa.edu.au/fast-track-to-masters

"The construction boom influenced me to study and pursue a career in this field. UniSA's degree is recognised by lots of professional bodies and is one of the most respected construction programs in Australia."

Yanlin Liu | Construction Management (Honours) Graduate / Consultant, Donald Cant Watts Coke (DCWC)

The Unstoppables

LEGO MASTER

Thi Quang Linh Tran
Sustainable Construction Manager at LEGO Group
Master of Engineering (Water Resources Management)

Vietnam is set to become home to LEGO's first ever carbon neutral factory and UniSA engineering grad, Thi Quang Linh Tran, is one of the company's driving forces behind building a more sustainable future.

This *UNSTOPPABLE* force and woman in STEM is bringing her technical expertise and passion for environmental ethics to the project as a sustainable construction manager, with the Vietnamese Government championing the expansion of renewable energy production infrastructure across the country.

Hear more from our unstoppable people

Bachelor of Construction Management

unisaonline.edu.au/construction-management

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

Prerequisites: *none*
Assumed knowledge: *none*
Time commitment: *10 – 15 hours per week per course*
UniSA Online pathways: *Literacy and Numeracy Test with relevant work experience*
UniSA College pathways: *Diploma in STEM (Construction) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

Program code	**XBBE**	TAFE/VET guaranteed:	**CIV**

Part-time study available

STUDY ON DEMAND

Study a 100% online construction management degree designed specifically for flexible learning. Prepare for a professional career in the construction industry covering the development of low-rise residential, light commercial and high-rise buildings. Study core courses in construction, building surveying, quantity surveying, law, economics, construction management, and communication. Benefit from a degree developed in collaboration with industry bodies such as the Australian Institute of Building, Australian Institute of Building Surveyors, Australian Institute of Quantity Surveyors, and the Royal Institution of Chartered Surveyors. 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

Construction manager · quantity surveyor · building surveyor · site supervisor · estimator · construction scheduler · contract administrator

CREDIT CHECK

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

HOW TO APPLY

1. *Check your eligibility at unisaonline.edu.au/eligibility*
2. *Gather your relevant documents*
3. *Complete your application and send through your documents*

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

DEGREE STRUCTURE

FIRST YEAR	UO Critical Approaches to Online Learning OR Elective UO Introduction to Construction Management UO Construction Communication UO Construction 1 UO Construction Materials UO Introduction to Construction Business Management UO Structures 1 UO Introduction to Contract Administration
SECOND YEAR	UO Construction Scheduling UO Construction 2 UO Quantity Surveying Practice 1 UO Contract Administration UO Structures 2 UO Building Estimating UO Building Services UO Construction Cost Planning
THIRD YEAR	UO Development Regulation UO Construction 3 UO Project Appraisal UO Construction Environmental Science UO Construction Operations and Safety UO Fire Technology UO Building Surveying UO Advanced Contract Administration

Bachelor of Construction Management (Honours)

unisaonline.edu.au/construction-management-honours

100% ONLINE			
UniSA Online		Intakes: Jan, Apr, Jun, Sept	
4 years full-time		Professional Practice Program	

Prerequisites: *none*
Assumed knowledge: *none*
Time commitment: *10 – 15 hours per week per course*
UniSA Online pathways: *Literacy and Numeracy Test with relevant work experience*
UniSA College pathways: *Diploma in STEM (Construction) or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

Program code	**XHCM**	TAFE/VET guaranteed:	**CIV**

Part-time study available

STUDY ON DEMAND

Study a 100% online construction management honours degree designed specifically for flexible learning. Study a four-year professional degree that will prepare you for future leadership and managerial roles in the building and construction industry. Develop the technical and practical skills to manage large-scale commercial, infrastructure and residential projects. Choose to specialise in one of three high-growth areas in construction project management, quantity surveying or building surveying in your final year. Graduate career-ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities. Study a degree accredited by the Australian Institute of Building Surveyors. 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 also available for eligible students.

Students that successfully complete the three-year Bachelor of Construction Management can also transfer directly into the fourth and final year of this program. Eligibility criteria apply.

CAREERS

Construction manager · quantity surveyor · building surveyor · site supervisor · estimator · construction scheduler · contract administrator

CREDIT CHECK

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

HOW TO APPLY

1. *Check your eligibility at unisaonline.edu.au/eligibility*
2. *Gather your relevant documents*
3. *Complete your application and send through your documents*

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

DEGREE STRUCTURE

FIRST YEAR	UO Critical Approaches to Online Learning OR Elective UO Introduction to Construction Management UO Construction Communication UO Construction 1 UO Construction Materials UO Introduction to Construction Business Management UO Structures 1 UO Introduction to Contract Administration
SECOND YEAR	UO Construction Scheduling UO Construction 2 UO Quantity Surveying Practice 1 UO Contract Administration UO Structures 2 UO Building Estimating UO Building Services UO Construction Environmental Science
THIRD YEAR	UO Development Regulation UO Construction 3 UO Project Appraisal UO Construction Cost Planning UO Project Appraisal UO Construction Operations and Safety UO Fire Technology UO Building Surveying UO Advanced Contract Administration
FOURTH YEAR	UOIntegrated Project UO Construction Management Research Principles UO Construction Management Honours Research Project A UO Construction Management Honours Research Project B UO Industrry Experience 4x Electives*

**Choose electives from two of three specialisations in quantity surveying, building surveying, or construction project management.*

Bachelor of Aviation (Pilot)

unisa.edu.au/aviation

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

Prerequisites: *none.*
Assumed knowledge: *none*
UniSA College pathways: *Diploma in STEM or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	**434141**	Program code	**LBAN**		
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	**69.00**	guaranteed	**B, B, B**	guaranteed	**Dip**
cut-off 2023	**69.00**			cut-off 2023	**CIV**

Part-time study available

Study the only degree of its kind in South Australia and take the first step in your aviation career. Gain fundamental knowledge in aerodynamics, navigation, flight planning, human factors, risk and safety management, and aircraft performance. You'll also develop strong communication and leadership skills. Access industry-standard technologies on campus, including a Boeing 737 Next Generation flight simulator. Practical flight training is not directly delivered through this program. If your goal is to become a commercial airline pilot, you'll need to apply to study the Graduate Diploma in Aviation.

Students wishing to complete practical flight training with UniSA will need to apply to study the Graduate Diploma of Aviation concurrently with the Bachelor of Aviation (Pilot) from second year. Admission into the bachelor's degree does not guarantee entry into the diploma and strict criteria apply. Offers for admission may also be subject to a cap on student numbers.

CAREERS

When studied without practical flight training, this degree can lead to the following careers:

Ground instructor · air traffic controller · airline operations manager · airport services manager · safety specialist

After completing additional flight training, this degree can lead to the following careers:

Commercial pilot · corporate pilot · firefighting pilot · medical pilot · defence force pilot · flight instructor

YOU MIGHT ALSO LIKE

- Bachelor of Aviation (Management)
- Bachelor of Engineering (Honours) (Mechanical)

FURTHER STUDY

- Graduate Diploma in Aviation
- Bachelor of Applied Science (Honours) (Aviation)

DEGREE STRUCTURE

FIRST YEAR	Introduction to Aviation Aviation Law Introduction to Aviation Management Professional and Technical Communication Flight Training Theory 1 Aviation Practice Introduction to Aviation Safety Aviation Physics 1 Aviation Elective 1
SECOND YEAR	Commercial Pilot Theory Aviation Elective 2 Air Transport Pilot Licence Theory on Navigation & Aircraft Systems Air Transport Pilot Licence Theory on Aircraft Performance & Flight Planning Elective
THIRD YEAR	Communications and Research Methods Advanced Pilot Theory Aviation Physics 2 Risk and Safety Management Systems Airline Operations Management Large Aircraft Flight Operations Aviation Project Aviation Elective 3

"UniSA was the obvious choice because it was one of the few universities in Australia – and the only in the state – to offer an aviation degree. As someone who is fascinated by airplanes, I have thoroughly enjoyed discovering the mysteries of the aviation industry."

Joshua Chin | Aviation Graduate / International Pilot

Bachelor of Aviation (Management)

unisa.edu.au/aviation

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

Prerequisites: *none.*
Assumed knowledge: *none*
UniSA College pathways: *Diploma in STEM or UniSA Foundation Studies + Undergraduate Certificate in University Studies (STEM)*

SATAC code	434131	Program code	LBAN
Year 12 Selection Rank:		Year 12 Grades:		TAFE/VET:	
guaranteed	66.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2023	66.00			cut-off 2023	CIV

Part-time study available

Develop a global career in aviation management. Build your knowledge in complex airport and flight operations. Focus on key areas such as aviation law, airline finance, operations management, economics and marketing, safety and human factors, and professional and technical communication. Learn about air operations dispatch, airport management, computer-controlled flight management systems, crew resource management, flight operation technologies, flight planning and traffic control. Access our industry-standard flight simulators to build your understanding of pilot operations and different flying conditions. Benefit from close links to industry with coursework and materials directly aligned to industry needs and international best practice. Complete an aviation project in your final year, which focuses on a real-world challenge and showcases your knowledge along with critical analytical, research and presentation skills.

CAREERS

Airport services manager · airport operations manager · air traffic controller · commercial manager · human resources manager · logistics manager · business development manager · safety management specialist

YOU MIGHT ALSO LIKE

- Bachelor of Aviation (Pilot)
- Bachelor of Business (Management)
- Bachelor of Business (Logistics and Supply Chain Management)

FURTHER STUDY

- Bachelor of Applied Science (Honours) (Aviation)
- Master of Project and Program Management
- Master of Management (Business Analytics)
- Master of Management (Human Resource Management)
- International Master of Business Administration

DEGREE STRUCTURE

FIRST YEAR	Introduction to Aviation Introduction to Aviation Management Professional and Technical Communication Aviation Law
	Quantitative Methods for Business Aviation Practice Introduction to Aviation Safety Human Factors 1
SECOND YEAR	Management and Organisation Principles of Economics Aviation Marketing Human Factors 2
	Foundations of Airline Finance Aviation Economics Airline Operations Management Elective

THIRD YEAR	Risk and Safety Management Systems Airport Management Communications and Research Methods Aviation Elective 1
	Aviation Strategic Management Project Management: Principles and Strategies Aviation Project Aviation Elective 2

Bachelor of Applied Science (Honours) (Aviation)

unisa.edu.au/aviation

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

SATAC code	4BH021	Program code	LHAS

Part-time study available

Contribute to the development of knowledge in the growing field of aviation. Gain industry-relevant experience through the completion of a major industrial, scientific or research project. Benefit from a curriculum with close links to industry, including partnerships with Flight Training Australia, Qantas Group and local aviation providers. Designed for students who have successfully completed a bachelor's degree in aviation, you'll develop highly specialised operational aviation expertise through the completion of a major industrial, scientific or commercial project. Develop skills in literature search and review, research methodologies, experimental design, data analysis and research ethics, and explore topics such as human factors, safety management, and airline and airport operations. You'll also have the opportunity to tailor your studies to your interests, as guided by your academic supervisor. Graduate with a qualification that will prepare you for additional postgraduate studies by coursework or research, or progress to a career in defence, human factors, safety management, airline and airport operations or academia.

CAREERS

Graduates can pursue careers in:

Defence · human factors · safety management · airline and airport operations · academia

Entry requirements

This program is available to students who have successfully completed a bachelor's degree in aviation or a related discipline from a recognised higher education institution. Applicants need to have displayed a high level of academic achievement throughout their degree, typically achieving a minimum credit average. Applicants are selected on the basis of academic merit and availability of a supervisor in their proposed area of research.

FURTHER STUDY

- Master of Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

FIRST YEAR	Research Methods Honours Minor Thesis Preparation Honours Minor Thesis 1 Elective
	Honours Minor Thesis 2 2x Electives

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

CONTENTS

Master of Information Technology (Cyber Security)

Nested with:
- Graduate Diploma in Information Technology (Cyber Security)

unisa.edu.au/IT

Mawson Lakes Campus		Intakes: Feb and Jul	
On-campus		Real-world projects	
2 years full-time		AUD $29,400 pa* *indicative 2023*	

SATAC code	4CM207	Program code	LMIG

Part-time study available **see page 61 for more on fees*

Develop advanced knowledge in cybersecurity governance, risk and compliance. Designed in close consultation with industry, this program will build your professional proficiency and capacity to examine and implement a range of technology-based cybersecurity defences and address emerging threats and attacks. It's suitable for students from any background or discipline, including information technology professionals seeking to gain specialist expertise. Develop technical skills and proficiency, along with a deep understanding of governance, risk and compliance. Benefit from our well-established partnerships with industry through the completion of a major project, providing an opportunity to apply skills and expertise learned in a professional environment. Take advantage of flexible learning options, including part-time and online study.

CAREERS

Cybersecurity analyst · cybersecurity consultant · risk analyst · cybersecurity manager · chief security officer · chief information officer

Entry requirements

- *Bachelor degree in any discipline from a recognised higher education institution;*
- *Graduate Diploma in Cyber Security, Graduate Diploma in Information Technology, or Graduate Diploma in Information Systems from a recognised higher education institution; or*
- *Graduate Certificate in Cyber Security, Graduate Certificate in Information Technology, or Graduate Certificate in Information Systems from a recognised higher education institution.*

YOU MIGHT ALSO LIKE

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

DEGREE STRUCTURE

FIRST YEAR	IT Concepts Security Principles Network Infrastructure Problem Solving in the Digital Age
	Business Practices for IT Professionals Risk Management and Governance Human Factors and Cyber Criminal Behaviour Network Security

SECOND YEAR	Security Operations Security Architecture and Engineering Consultancy and Engaging with Stakeholders Enterprise Security
	Critical Infrastructure and Control System Security Australian Cyber Law and Digital Evidence Capstone IT Project

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		AUD $29,400 pa* *indicative 2023*	

SATAC code	**4CM133**	Program code	**LMIG**

Part-time study available **see page 61 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 enterprise architecture, security principles, business modelling processing, information governance, and project management. Tailor your studies through elective courses covering topics such as data and web mining, security governance, network infrastructure, commercial law, global business environments, 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 Information Technology (Cyber Security)
- Master of Data Science

DEGREE STRUCTURE

FIRST YEAR	IT Concepts
	Security Principles
	Problem Solving in the Digital Age
	Business Practices for IT Professionals
	Risk Management and Governance
	Business Systems Analysis
	Project Management for IT Professionals
	Elective

SECOND YEAR	Business Process Modelling
	Enterprise Architecture
	Enterprise Resource Management
	Consultancy and Engaging with Stakeholders
	Information Governance
	Capstone Professional Project
	Advanced Business Intelligence and Analytics

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 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		AUD $30,900 pa* *indicative 2023*	

SATAC code	**4CM128**	Program code	**LMDS**

Part-time study available **see page 61 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 Information Technology (Cyber Security)
- Master of Information Technology (Enterprise Management)

DEGREE STRUCTURE

FIRST YEAR	Big Data Concepts
	Statistical Programming for Data Science
	Statistics for Data Science
	Directed Elective
	Predictive Analytics
	Unsupervised Methods in Analytics
	Research Methods
	Data Visualisation

SECOND YEAR	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.

The Unstoppables

SUPER SPY

Imagine spending most of your professional life working on secret missions to catch spies and stop terrorists?

UniSA electronics engineering grad and *UNSTOPPABLE* force, Mike Burgess, is the Head of ASIO — the intelligence agency that protects Australia and Australians from threats to their security. He also spent 18 years at the Australian Signals Directorate using bits and bytes to collect foreign intelligence and stop cyber threats.

Mike Burgess
Director-General of Security at the Australian Security Intelligence Organisation (ASIO)
Bachelor of Engineering (Electronics and Microengineering) (Honours)

Hear more from our unstoppable people

Master of Information Management

Degrees:
- Master of Information Management (Archives and Records Management)
- Master of Information Management (Library and Information Management)
- Master of Information Management (Teacher Librarianship)

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)
- Graduate Diploma in Information Management (Teacher Librarianship)

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	Teacher Librarianship
SATAC code	**4CM135**	**4CM134**	**4CM237**
Program code	**DMIL**	**DMIL**	**DMIL**

Part-time study available **see page 61 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 the Teacher Librarianship program, you'll gain the specialist knowledge and skills to run a school library. In all 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

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

	INDICATIVE OF LIBRARY AND INFORMATION MANAGEMENT
FIRST YEAR	Information Management Professional Practice
	Technological Foundations
	Information Management Foundations
	Information Retrieval
	Organising Resources
	Research Methods
	Information Management Experience Reports
	Information Management Project
	Reading and Readers' Advisory OR Scholarly Communications

	RESEARCH PROJECT
SECOND YEAR	IT Masters Research Project
	Digital Literacy
	Metadata
	Information Advocacy
	3x Electives
	MINOR THESIS
SECOND YEAR	ICT Masters Minor Thesis 1
	ICT Masters Minor Thesis 2
	Digital Literacy
	Metadata
	Information Advocacy
	Elective

Master of Engineering

Degrees:
- Master of Engineering (Civil and Infrastructure)
- Master of Engineering (Water Resources Management)

unisa.edu.au/engineering

Mawson Lakes Campus		Intakes: Feb and Jul	
On-campus		Professional Practice Program	
2 years full-time		Commonwealth supported*	

		Civil and Infrastructure		Water Resources Management
SATAC code	2 years	**4CM156**	2 years	**4CM162**
	1.5 years	**4CM155**	1.5 years	**4CM161**
	1 year	**4CM154**	1 year	**4CM160**
Program code		**LMCL**		**LMCL**

Part-time study available **see page 61 for more on fees*

Develop advanced knowledge in civil engineering theory and practice, and tailor your studies by choosing the specialisation that interests you most. In the Civil and Infrastructure stream, you'll focus on structural and geotechnical engineering, and study critical infrastructure such as bridges, buildings, roads and transport systems. In the Water Resources Management stream, you'll learn to create and design key water resources and management systems. You can also choose to study project management and leadership in your degree through elective courses. Access industry-standard facilities on campus, including high-tech testing and computer-modelling equipment. Complete the Professional Practice Program as part of your studies, gaining at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You'll also be eligible for membership with comparable international accrediting organisations.

CAREERS

Depending on your chosen degree, your career options can include:

Project manager · operations manager · civil engineer · structural engineer · water resources engineer · construction manager · engineering consultant · lead engineer · engineering manager · researcher

Entry requirements

- *Bachelor degree or equivalent qualification in civil engineering, or a related discipline, from a recognised higher education institution. A related discipline may be other four-year engineering or science degrees.*
- *Applicants who do not meet the standard entry requirements will be assessed on a case-by-case basis by the University.*
- *Applicants who have previously completed a Bachelor of Engineering (Honours) degree accredited under the Washington Accord may be eligible to complete the program in 1.5 years of full-time study or 1 year of full-time study, or part-time equivalents.*

YOU MIGHT ALSO LIKE

- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

	INDICATIVE OF CIVIL AND INFRASTRUCTURE
FIRST YEAR	Soil Mechanics
	Steel and Timber Design
	Research Data Analysis
	Elective 1
	Geotechnical Engineering
	Reinforced Concrete Design
	Advanced Soil Mechanics
	Elective 2

SECOND YEAR	Engineering Masters Industrial Experience
	Engineering and Environmental Masters Design Project
	Masters Research Theory and Practice
	Elective 3
	Masters Research Project
	Elective 4
	Elective 5

The Unstoppables

PIXAR'S COLOUR STAR

Dominic Glynn
Senior Scientist at Pixar Animation Studios
Master of Engineering (Information Technology and Telecommunications)

Imagine bringing some of the most beloved animation characters of the 21st century to life as a colour scientist at Pixar Animation Studios. A retinal haemorrhage during a high-altitude mountain climb changed Dominic Glynn's perception forever and kickstarted his fascination with the human visual system.

Standing at the intersection of computers and art, this *UNSTOPPABLE* force and UniSA engineering grad has worked on all of Pixar's films, including the company's latest triumphs – Lightyear, Inside Out, Soul, Luca and Turning Red.

Hear more from our unstoppable people

Master of Engineering

Degrees:
- Master of Engineering (Electrical Power)
- Master of Engineering (Cyber Engineering and Telecommunications)

unisa.edu.au/engineering

Mawson Lakes Campus		Intakes: Feb and Jul	
On-campus		Professional Practice Program	
2 years full-time		Commonwealth supported*	

	Electrical Power	Cyber Engineering
SATAC code	**4CM126**	**4CM232**
Program code	**LMEL**	**LMEL**

Part-time study available **see page 61 for more on fees*

Develop advanced knowledge in electrical engineering theory and practice, and tailor your studies by choosing the specialisation that interests you most. In Electrical Power, you'll focus on electrical engineering by studying the operation and control of modern power systems, renewable and distributed energy generation, and modelling of electrical machines. In Cyber Engineering and Telecommunications you'll learn about telecommunications and device security, statistical programming for data science, information theory and coding, and mobile communications and wireless access. Complete the Professional Practice Program as part of your studies, gaining at least 450 hours of skills and competencies through a range of engagement activities such as placements, internships, guest lectures, industry panels, site visits, networking opportunities and events. Undertake a research project and submit a minor engineering thesis, focusing on real-world engineering challenges. Get your prior learning recognised by applying for study credit.

CAREERS

Depending on your chosen degree, your career options can include:

Electrical engineer · telecommunications engineer · operations manager · network planning engineer · project manager · renewable energy engineer · engineering consultant · researcher

Entry requirements

Bachelor degree or equivalent qualification in electrical engineering, or a related discipline, from a recognised higher education institution.

YOU MIGHT ALSO LIKE

- Master of Engineering (Engineering Management)
- Master of Project and Program Management

DEGREE STRUCTURE

INDICATIVE OF ELECTRICAL POWER	
FIRST YEAR	Power System Fundamentals Operation and Control of Modern Power Systems Advanced Control and Signal Processing Research Data Analysis
	Renewable Energy Systems Power Electronics Energy and Society Integrated Industrial Actuation
SECOND YEAR	Engineering Masters Industrial Experience Advanced Power System Modelling and Analysis Masters Research Theory and Practice 2x Electives
	Renewable and Distributed Power Generation Advanced Electrical Machines Masters Research Project

Master of Engineering (Engineering Management)

Nested with:
- Graduate Certificate in Engineering (Engineering Management)
- Graduate Diploma in Engineering (Engineering Management)

unisa.edu.au/engineering

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

SATAC code	**4CM122**	Program code	**LMEB**

Part-time study available **see page 61 for more on fees*

Learn how to manage operations within an engineering project, department or organisation. Develop advanced knowledge and skills in operation management, quality management, supply chain management, resource management and project management. Tailor your studies through a wide range of electives, including strategic procurement, entrepreneurship and innovation, energy and society, and robotics and automation. Complete a major industry project or a minor research thesis in an area of interest. Explore the latest findings and innovations in engineering by connecting with our leading research institutes, centres and concentrations.

CAREERS

Operations manager · engineering manager · quality assurance manager · business development manager · department manager · bid manager · capital works manager

Entry requirements

- *Bachelor degree in engineering, science or technology from a recognised higher education institution; or*
- *Graduate certificate or graduate diploma in engineering from a recognised higher education institution.*

YOU MIGHT ALSO LIKE

- Master of Engineering — *various specialisations*
- Master of Project and Program Management

DEGREE STRUCTURE

FIRST YEAR	Intelligent Production Systems Total Quality Management Research Data Analysis Principles of Project Management
	Sustainable Development and Design Practice Engineering Economic Analysis People, Leadership and Performance Elective
SECOND YEAR	Supply Chain Management Project Planning and Control Masters Research Theory and Practice Elective
	Operations Management Systems Enterprise Resource Management Master Thesis

"The project management degree provides practical and industry-relevant content that will prepare you for a senior role or career progression. My key piece of advice would be to make the most of meeting new people from all different industries and sharing your experiences."

Rebecca Lawson-Cooke | Project Management Graduate / Director — Project Management and State Lead SA, Turner & Townsend

Master of Systems Engineering

Nested with:
- Graduate Diploma in Systems Engineering

unisa.edu.au/engineering

Mawson Lakes Campus		Intakes: Feb and Jul	
Online		Real-world projects	
1.5 years full-time		AUD $27,300 pa* *indicative 2023*	

SATAC code	**4CM222**	Program code	**LMDI**

Part-time study available **see page 61 for more on fees*

Develop high level engineering skills relevant to Australia's national defence interest. Gain an understanding of the full systems engineering Learn to apply interdisciplinary skills associated with engineering management, integrated logistics support, test and evaluation, model-based systems engineering and project management. Draw on your engineering knowledge to develop advanced skills in systems engineering, tailored to the defence sector, and encompassing other sectors such as telecommunication, rail, mining and healthcare. You'll also have the opportunity to study electives of your choice to broaden your knowledge and skills in specific areas of interest. Graduate with a degree endorsed by the Naval Shipbuilding College (NSC) as part of the College Endorsement Process.

CAREERS

This program is designed for engineering, finance, business and management graduates looking to pursue a career as a systems engineer in defence and other industries. It's also ideal for experienced engineers and professionals in defence and other industries seeking career progression.

Entry requirements

- *Bachelor degree, graduate certificate or graduate diploma in a relevant discipline from a recognised higher education institution.*
- *Relevant disciplines for entry typically include engineering (aeronautics, astronautics, biomedical, chemical, civil, computer, electrical, environmental, industrial, mechanical, nuclear, software, systems), chemistry, physics, computer science, or mathematics.*
- *A relevant four year honours degree, or a three year bachelor degree with a minimum of three years' relevant professional work experience in a senior role in STEM-related industries, are eligible to enter the program with 18 units of Advanced Standing and complete the program in 2 years of part-time study.*

YOU MIGHT ALSO LIKE

- Master of Engineering (Engineering Management)

DEGREE STRUCTURE

FIRST YEAR	Principles of Project Management Masters Research Theory and Practice 2x Electives
	Principles of Systems Engineering System Design and Integration Principles of Test and Evaluation Integrated Logistics Support
SECOND YEAR	Systems Integration Project Planning Choose one of the following 9 unit options: · Engineering Management AND Model Based System Engineering OR · Systems Integration Project Execution

Master of Project and Program Management

Degrees:
- Master of Project and Program Management
- Master of Project and Program Management (Contract Management)

Nested with:
- Graduate Certificate in Project Management
- Graduate Diploma in Project Management
- Graduate Diploma in Project Management (Contract Management)

unisa.edu.au/projectmanagement

City East Campus		Intakes: Feb and Jul	
On-campus		Real-world projects	
1.5 years full-time		Commonwealth supported*	

	General	Contract Management
SATAC code	**4CM209**	**4CM212**
Program code	**IMGM**	**IMGM**

Part-time study available **see page 61 for more on fees*

Fast-track your studies in project management by studying an 18-month qualification where you'll develop core fundamental and advanced knowledge of project, program, portfolio management, and international best practice to address the growing complexity of projects across various industries. Complete a practical research project, which can focus on an issue within your workplace. Benefit from a curriculum and learning framework based on the Standard for Project Management and A Guide to the Project Management Body of Knowledge (PMBOK® Guide) and relevant other industry standards in the field. You can also choose to specialise in Contract Management, the only specialisation of its kind in Australia, focused on fundamental legal principles, standards, methodologies, and Australian contract management practices relevant to building, construction, engineering, and government. Graduate with a degree endorsed by the Australian Institutes of Project Management.

CAREERS

Qualified project managers can work across a wide range of industries, including:

Information technology · construction · engineering · health · defence · finance · mining and resources · pharmaceuticals · the arts · government · not-for-profit · education · marketing

Entry requirements

- *Bachelor degree from a recognised higher education institution; or*
- *Graduate certificate or graduate diploma in project management, or a related discipline, from a recognised higher education institution.*

YOU MIGHT ALSO LIKE

- Master of Project Management

DEGREE STRUCTURE

INDICATIVE OF PROGRAM AND PROJECT MANAGEMENT	
FIRST YEAR	Principles of Project Management Project Risk Management Procurement and Contract Management Project Governance and Ethics
	Project Control Methods Project Leadership and Teams Portfolio and Program Management Masters Research Theory and Practice
SECOND YEAR	Project Management Research Thesis Select two of the following courses: Managing Complexity in Projects Sustainability in Project Management Project Management in Professional Practice Negotiation Research Data Analysis

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.

Graduate Diploma in Building Surveying

Nested with:
- Graduate Certificate in Building Surveying

unisa.edu.au/construction

City East Campus			
On-campus/online		Intakes: Feb and Jul	
1 year full-time		Commonwealth supported*	

SATAC code	**4GD097**	Program code	**IGBE**

Part-time study available **see page 61 for more on fees*

Develop the skills to become a professional building surveyor in Australia, with the ability to assess building plans to ensure they comply with particular codes and standards. Gain a strong understanding of the construction industry, its stakeholders and the complete building lifecycle. Focus on core courses in building processes and technology, construction law, and building codes and regulations. Graduate with a qualification that fulfils the educational requirements for building surveyor accreditation by the Australian Institute of Building Surveyors and the Royal Institute of Chartered Surveyors.

The Graduate Certificate in Building Surveying provides an entry pathway into this degree for applicants who have a minimum six years of relevant industry experience.

CAREERS

Licensed building surveyors can work across a wide range of projects from residential through to multidisciplinary construction works.

Entry requirements

- *Bachelor degree in built environment, civil engineering, structural engineering, building surveying, quantity surveying, property, construction management or architecture from a recognised higher education institution; or*
- *Graduate Certificate in Building Surveying (ICBE) from UniSA, or equivalent qualification from a recognised higher education institution.*
- *Applicants that have completed bachelor degrees from other relevant disciplines will also be considered on a case-by-case basis.*

DEGREE STRUCTURE

FIRST YEAR	The Constructed Environment
	Introduction to Construction Law
	Building Structures and Materials
	Building Surveying
	Fire Technology
	Development Regulation
	Asset Management and Building Pathology
	Advanced Building Surveying

This program is delivered completely online, however students also have the option of studying through a blended mode of online and on-campus delivery. Students wishing to study full-time should discuss this option with the Program Director.

Graduate Diploma in Aviation

unisa.edu.au/aviation

Mawson Lakes Campus		Intakes: n/a^	
On-campus		Flight training	
2 years part-time		AUD $107,000 pa* *indicative 2023*	

SATAC code	**n/a**	Program code	**LGAN**

Part-time study only **see page 61 for more on fees*

^Intake is through direct invitation to Bachelor of Aviation (Pilot) students only.

Commence your practical flight training through this program, which is studied concurrently with the Bachelor of Aviation (Pilot). Learn to fly under the supervision of highly experienced instructors. Develop the knowledge, skills and competencies to sit for a Commercial Pilot Licence (CPL) and Multi-engine Command Instrument. Be prepared to work as a first officer in a multi-crew aircraft or as a pilot in command of most single engine operations. Submit detailed flight plans and access the latest aerodrome alerts and weather forecasts. Benefit from strong links to industry, including practising professional pilots and air traffic controllers, and through the Qantas Future Pilot Program.

CAREERS

Commercial pilot · corporate pilot · firefighting pilot · medical pilot · defence force pilot · flight instructor

Entry requirements

Applicants must be enrolled in the Bachelor of Aviation (Pilot) (LBAN) to be eligible to apply for the Graduate Diploma in Aviation (LGAN), however this does not guarantee entry into this program. Entry is subject to a specific entry process, which occurs after the commencement of the bachelor's degree. Strict selection and entry criteria apply to this program and offers for admission may also be subject to a cap on student numbers. Practical flight training is delivered at the UniSA Aviation Academy, based at Parafield Airport.

Entry criteria

The selection process is competitive and based on academic achievement (typically achieving at least a pass average), as well as a formal interview, flight aptitude test and assessment of English proficiency. The interview will assess the skills and qualities considered important for professional practice. This includes professional behaviour, personal motivation and commitment, ability to communicate clearly and take direction, workload management and organisational skills, compatibility and understanding of the program and the aviation profession. Only applicants satisfying the entry criteria will be eligible to receive an offer.

Additional criteria

Before commencing flight training, students must obtain a Class I Medical Certificate (Class II will also be considered if you have held a Class I Certificate within the last three years). Before enrolling in Advanced Flying, students must also hold an Aviation Security Identification Card (ASIC). For more information visit the CASA website.

Application process

This program must be studied concurrently with the Bachelor of Aviation (Pilot) (LBAN). The University will invite students to apply during the first year of their bachelor's degree.

Fees

Eligible students may choose to defer their tuition fees through a FEE-HELP loan under the Federal Government's Higher Education Loan Program. For more information, visit unisa.edu.au/fees and studyassist.gov.au/help-loans

FURTHER STUDY

- Bachelor of Applied Science (Honours) (Aviation)
- Graduate Certificate in Space Studies
- International Master of Business Administration

DEGREE STRUCTURE

Introductory Flying
Advanced Flying
Night Flying
Aircraft Navigation 1
Aircraft Navigation 2
Instrument Flight 1
Instrument Flight 2

Graduate Certificate in Space Studies

unisa.edu.au/engineering

Mawson Lakes Campus			
On-campus/online		Intakes: Jul	
0.5 years full-time		AUD $15,450* *indicative 2023*	

SATAC code	**n/a**	Program code	**LCSD**

**see page 61 for more on fees*

Explore your curiosity and complete a postgraduate qualification in space studies. Complete an individual space-themed research project, working closely with space industry experts. Examine an area of interest, from space technology, applications and services, space science, exploration and human spaceflight, through to space economics, regulation and management, and more. Kickstart your studies with an intensive three-day program of workshops, exploring your project theme. Your research project can then be completed online, under the supervision of an expert academic from the Southern Hemisphere Space Studies Program (SHSSP) or the International Space University (ISU).

CAREERS

This program can lead to specialised careers in the space industry, including:

Analyst · researcher · policy adviser · project manager · scientist · engineer

Entry requirements

- *Bachelor degree from a recognised higher education institution; or*
- *Advanced diploma with three years of work experience in a related discipline; and*
- *Successful completion of either the Southern Hemisphere Space Studies Program (SHSSP), or the International Space University Space Studies Program.*

Apply directly at unisa.edu.au/applyonline

SHSSP

The Southern Hemisphere Space Studies Program (SHSSP) is an intensive held during summer. The program is conducted by UniSA, in partnership with the International Space University (ISU). It provides a well-rounded overview of the concepts involved in space science and exploration, space applications and services, human spaceflight and life science, space systems engineering and technology, space business and management, and space legal and regulatory issues. Please note that there are additional costs associated with this program.

DEGREE STRUCTURE

ISU Southern Hemisphere Summer Space Program - Elective Course
Space Studies Project

The ISU Southern Hemisphere Summer Space Program Elective Course is on campus only and the Space Studies Project is online only.

Master of 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. The Institute undertakes cross-disciplinary research related to five key industry sectors — Healthy Environments, High-Tech Manufacturing, Medical Technology, Smart Energy and Sustainable Resources. Learn alongside world-class supervisors on industry-based projects focused on meeting the challenges of modern enterprise.

TOPICS OF RESEARCH

- Analytical Biochemistry
- Applied Physics
- Bioinformatics
- Cell Biology
- Computer and Information Science
- Construction Management
- Engineering
- Environmental Chemistry
- Environmental Science
- Extractive Metallurgy
- Geographic Information Science
- Information and Communication Technology
- Mathematics
- Minerology and Geochemistry
- Molecular Biology
- Nano-Technology
- Project Management
- Statistics
- Surface Science

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

Master of 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*
- *Relevant master's degree.*

Doctor of Philosophy (PhD)

- *Honours degree or bachelor degree with honours of at least class 2A standard in an appropriate discipline; or*
- *Relevant master's degree.*

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

HOW TO UNLOCK YOUR UNSTOPPABLE CAREER

GET THE COMPETITIVE EDGE

In the next five years, more than 90% of new jobs will need post-secondary qualifications like a university degree.

Latest federal government reporting shows that there'll be jobs growth across a wide range of industries and job types, but the most growth will be careers that demand higher skill levels. Professional roles alone will rise by 14.7% between now and 2026.

This means, furthering your education has never been more important. Developing soft skills in communication, computing, cognitive ability and care will also be essential ingredients to your future success.

It's in our DNA to produce unstoppable graduates, and with more than 200 world-class degrees to choose from, we'll help you become a force of the future in Australia's workforce and beyond.

Information Source: Australian Government National Skills Commission, Employment Outlook – March 2022.

PREFERENCE BY PASSION

We know that choosing your preferences can be confusing, but we're here to help. Applications to study at UniSA are made through SATAC and you can select up to six preferences (degrees).

SATAC make offers by working down your preference list, so it's important to preference in order of what you want to study *most*. Don't forget, SATAC will also look at your eligibility criteria (for example, does the degree have any prerequisites?).

There are also some other things to consider when narrowing down your six choices:

1. By preferencing UniSA first, you might also be eligible for guaranteed entry. All you need to do is meet the set Selection Rank, Year 12 subject grades or TAFE/VET qualification (and any other academic criteria).
2. Do you need a back-up option? Alternative pathways offered through UniSA College can be included as part of your preference list.

That's the hard work done!

You'll automatically receive an offer from SATAC for the first preference you're eligible for in the list. It's also good to remember that there are multiple offer rounds in January and February, so don't worry if you miss out on your top pick first go.

Don't just settle, follow your passion – we'll help get you into your preferred degree and you'll be on your way to that unstoppable career.

NEED A PREFERENCE HEALTH CHECK?

unisa.edu.au/applicationcheck

#1 IN AUSTRALIA FOR GRADUATE EMPLOYABILITY

QILT Employer Satisfaction Survey, 2020-22 – Employability Skills Indicator. Public universities.

UniSA OPEN DAY

City West Campus and City East Campus
Sunday 13 August

Magill Campus
Wednesday 30 August

Mawson Lakes Campus
Sunday 27 August

Mount Gambier Campus
Sunday 6 August

Whyalla Campus
Sunday 27 August

unisa.edu.au/opendays

UniSA 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+ and ASPIRE will help to shape your personal and professional journey through leadership and self-development work while you study, so you can become the best version of yourself.

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.

unisa.edu.au/studentlife

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 inclusive of 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. 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 have listed the degree as your first preference, you're guaranteed an offer.

Try 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, Undergraduate Certificates in University Studies, Foundation Studies, and the Aboriginal Pathway Program. You'll be enrolled as a UniSA student and build the academic skills needed for university study, along with introductory knowledge for your preferred UniSA degree.

Find out more about the full range of UniSA College programs at:

unisa.edu.au/college

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.

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

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

unisa.edu.au/pathways

RELOCATING TO ADELAIDE

We offer a range of in-demand degrees at our regional campuses in Mount Gambier and Whyalla. If you're interested in relocating to Adelaide to study at one of our metro campuses, then start your planning early — there's a few things to think about before making the move.

unisa.edu.au/regional-relocation

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 UniSA domestic undergraduate students are in Commonwealth-supported places. Students pay a contribution of their fees depending on their program and the associated contribution band (see table below). Student contributions also depend on the unit value courses. As per the Australian Government guidelines, the student contribution amounts for 2023 are:

Band	Field of education	Student contribution *For one year of full-time load (1 EFTSL)*	Student contribution *For each subject (0.125 EFTSL)*
1	Agriculture, english, mathematics, teaching, clinical psychology^, languages and nursing.	$4,124	$515
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^.	$8,301	$1,037
3	Dentistry, medicine and veterinary science.	$11,800	$1,475
4 (4A, 4C, 4P, 4S & 4Y)	Law, accounting, administration, economics, commerce, communications, society and culture, professional pathway psychology, professional pathway social work and clinical psychology.	$15,142	$1,892

**Some postgraduate programs are Commonwealth-supported, while others are full fee-paying. These details are listed under each program in this guide. For programs under one year full-time study, fees are listed as the whole program. For programs over one year of full-time study, fees are listed based on the cost per annum.*

This table should be used as a guide only (indicative 2023 only). Total costs can vary depending on the courses you study and the band they fall into. For more information about fees, including eligibility for Commonwealth-supported places and deferring your student contributions through HECS-HELP or FEE-HELP loans, visit ***unisa.edu.au/fees***

University of South Australia

Australia's University of Enterprise

We're here to help
P: (08) 8302 2376
E: unisa.edu.au/enquire
unisa.edu.au/study

Information correct at time of publishing (August 2023)

CRICOS provider number 00121B / Australian University provider number PRV12107

Acknowledgement of Country

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

unisa.edu.au/RAP

Artist: Ngupulya Pumani