



University of  
South Australia

# 2022 ENGINEERING, CONSTRUCTION AND AVIATION

CIVIL · STRUCTURAL · ELECTRICAL · ELECTRONIC · MECHANICAL · MECHATRONIC ·  
ADVANCED MANUFACTURING · SURVEYING · CONSTRUCTION MANAGEMENT ·  
AVIATION · PROJECT MANAGEMENT

**30**  
UNSTOPPABLE  
YEARS 1991 – 2021

# #1 IN SA FOR GRADUATE CAREERS



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

Cindy Oliver, UniSA civil engineering graduate.

# SOLVE IT, BUILD IT.

Turn ideas into action and prepare for a career in engineering, construction or aviation. Build strong foundations by studying construction management and learn to deliver complex projects that transform cities and landscapes. Develop smarter solutions by exploring diverse areas of engineering like robotics, contemporary manufacturing systems, renewable energy, infrastructure automations, electronics, surveying and more. If you're interested in a high flying career in aviation, you can also explore airport and flight operations through our aviation management degree or start your training to become a licensed pilot.

📍 [unisa.edu.au/study](http://unisa.edu.au/study)

## GET THE PROFESSIONAL EDGE

Graduate career ready by completing the Professional Practice Program as part of your engineering or construction management degree. You will gain 450+ hours of experience through a range of engagement activities like industry placements, internships, guest lectures, panel discussions, site visits, networking opportunities and events. You will get full exposure to industry, real workplace settings, the latest insights and the chance to build your professional contacts. Your hours will be recorded and you will receive regular updates about your activities. Graduate with a competitive edge and the skills needed to thrive on day one of the job.

## CONNECT TO REAL RESEARCH

When you study engineering at UniSA, you will benefit from strong links to world-class research. Our researchers are at the forefront of new innovations, including a new 'pandemic drone' that is fitted with specialised sensor and computer vision systems to detect people in crowds with infectious respiratory conditions like COVID-19. The technology has unlimited possibilities and can also be used in natural disaster zones and for monitoring premature babies while in incubators.

## BUILDING YOUR CAREER

UniSA offers South Australia's only undergraduate degrees in construction management, which are also accredited by the Australian Institute of Building. Graduate with the skills to work across large infrastructure projects, redevelopments and commercial builds. Study core construction courses covering technical and non-technical topics, along with courses in both quantity and building surveying. You can also study construction management through UniSA Online.

## A SUCCESSFUL START

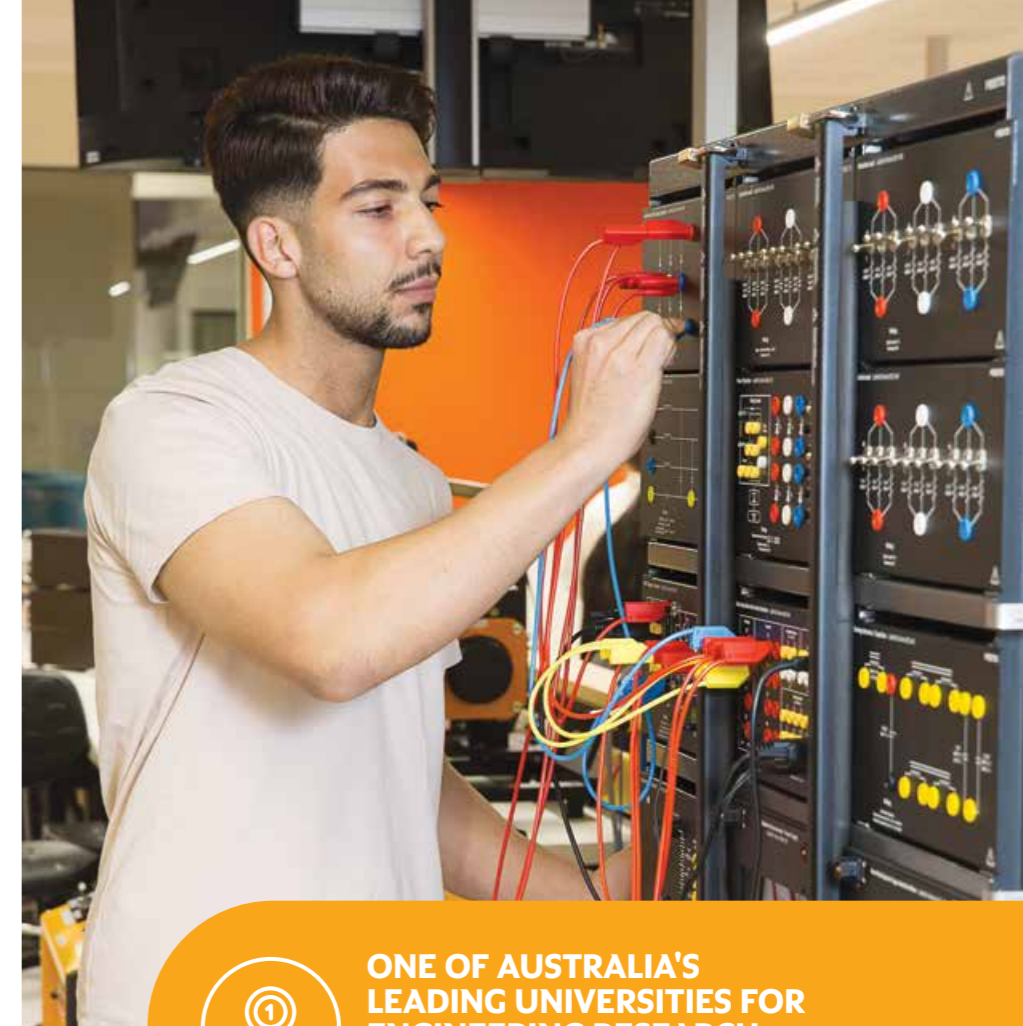
Accelerate your ideas and launch a startup business with in-house support from UniSA's Innovation & Collaboration Centre (ICC). The ICC delivers a program called Venture Catalyst, helping budding entrepreneurs turn their business ideas from concept to reality. The tailored program offers workshops, mentoring, free office space and potential funding. You will also be able to connect to industry experts and gain their insights as you take your idea from generation through to growth and expansion.

📍 [icc.unisa.edu.au](http://icc.unisa.edu.au)



## ARE YOU MANAGEMENT MATERIAL?

Graduate with the skills needed to manage multi-faceted projects across a wide range of industries through a fast-tracked postgraduate qualification in project management. Study core courses in risk management, leadership, strategy and international best practice. You can choose to specialise in Contract Management – the only offering of its kind in Australia.



## 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)



## STUDY SA'S ONLY FULLY ACCREDITED BACHELOR DEGREES IN CONSTRUCTION MANAGEMENT



## #1 IN SA FOR EMPLOYER SATISFACTION

2019 QILT Employer Satisfaction Survey – Overall Satisfaction Indicator.



*"A strong degree foundation is important regardless of your field, but it's only the beginning of a lifelong learning process and the start of a rewarding and exciting career. Seeing how knowledge is used in the real world allows you to gain that perspective, as well as discover different directions about where your degree can take you."*

Brad Yelland | Chief Technology Officer | BAE Systems Australia



## 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 specialised skills developed and designed to get you career ready. In fact, the Naval Shipbuilding College (NSC) has endorsed a range of our engineering degrees at both the undergraduate and postgraduate level.

You will have the opportunity to work on real projects and complete internships so that you graduate with the experience needed for major projects like the \$50 billion Future Submarine Program and the Hunter Class Frigate Program.



Bradley Toole, UniSA mechanical engineering graduate.

## TAKE TO THE SKIES

Study aviation and take your career to new heights by developing your skills with our aviation simulators and software. Students can explore the skies while still on the ground in our Boeing 737 Next Generation flight simulator located on campus. You will learn to respond to real-world scenarios and strengthen your airport management skills with our Airline Online simulation software.

## A SPACE ODYSSEY

With the Australian Space Agency making its home in Adelaide, interest in space data and technologies has skyrocketed – and UniSA is at the forefront of the next space odyssey. Each year UniSA, in partnership with the International Space University, offers the annual Southern Hemisphere Space Studies Program. The program includes inspiring workshops with industry experts, scientists and cutting-edge researchers, exploring topics like space technology, exploration and human spaceflight, space law and more.



## 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.



## 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, Naval Group 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.



*"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

STUDY SA'S ONLY AVIATION DEGREES



**#1 IN SA FOR TEACHING QUALITY**

ComparED (QILT) Student Experience Survey 2018-2019. Public SA-founded universities only.

# YOUR CAMPUS

YOUR HOME CAMPUS IS MAWSON LAKES

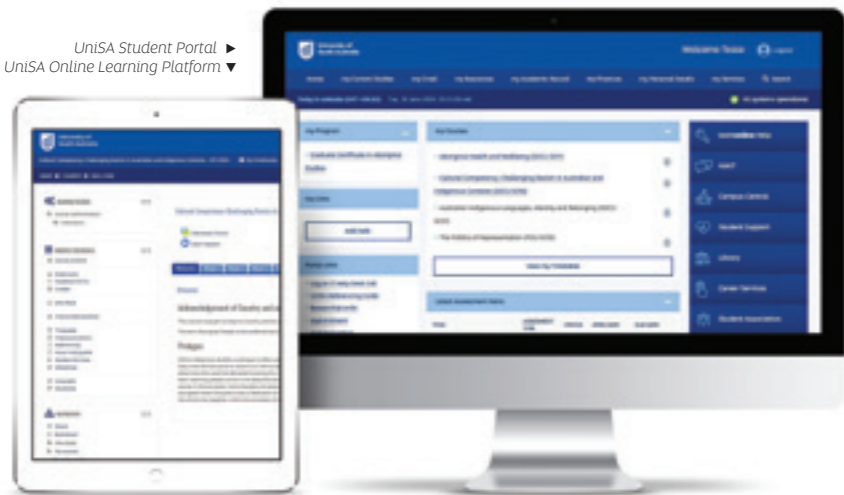
ON-CAMPUS PARKING AVAILABLE FOR LESS THAN \$2 A DAY

Degrees in Construction Management are offered at City East Campus

## VIRTUAL CAMPUS

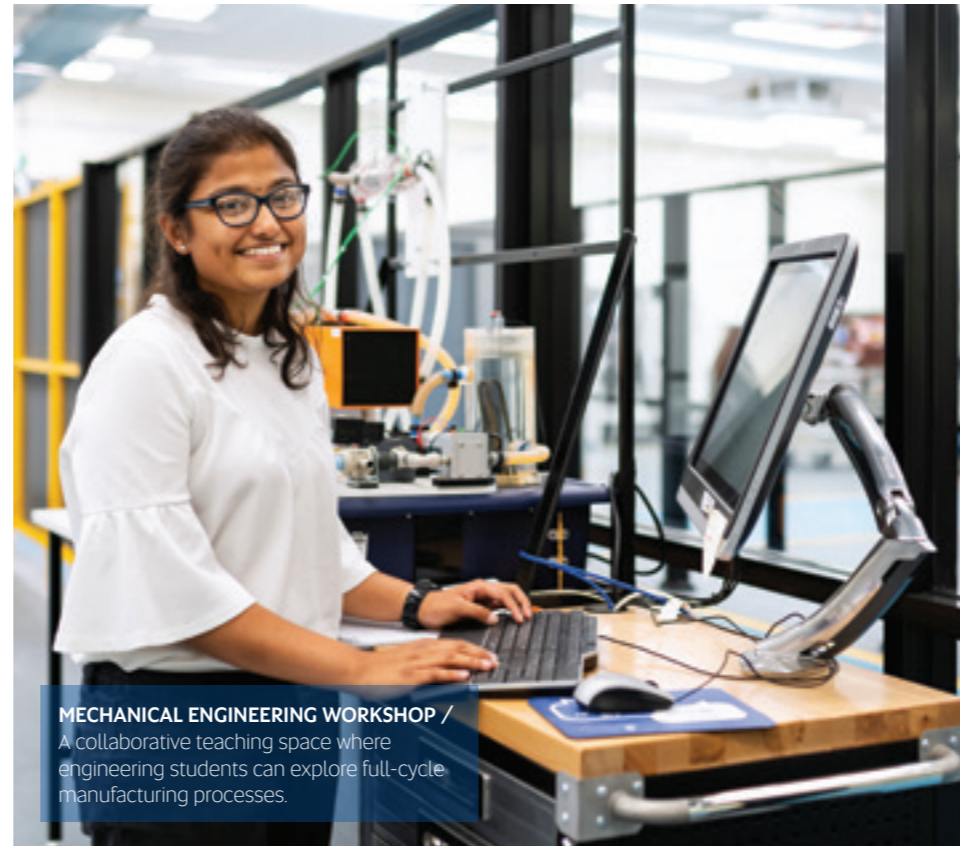
We're one of Australia's largest online education providers, giving our students more choice when it comes to flexible learning. You can study fully online or through a blended mode. Our virtual campus is supported by custom online learning platforms using the latest industry software.

UniSA Student Portal  
UniSA Online Learning Platform

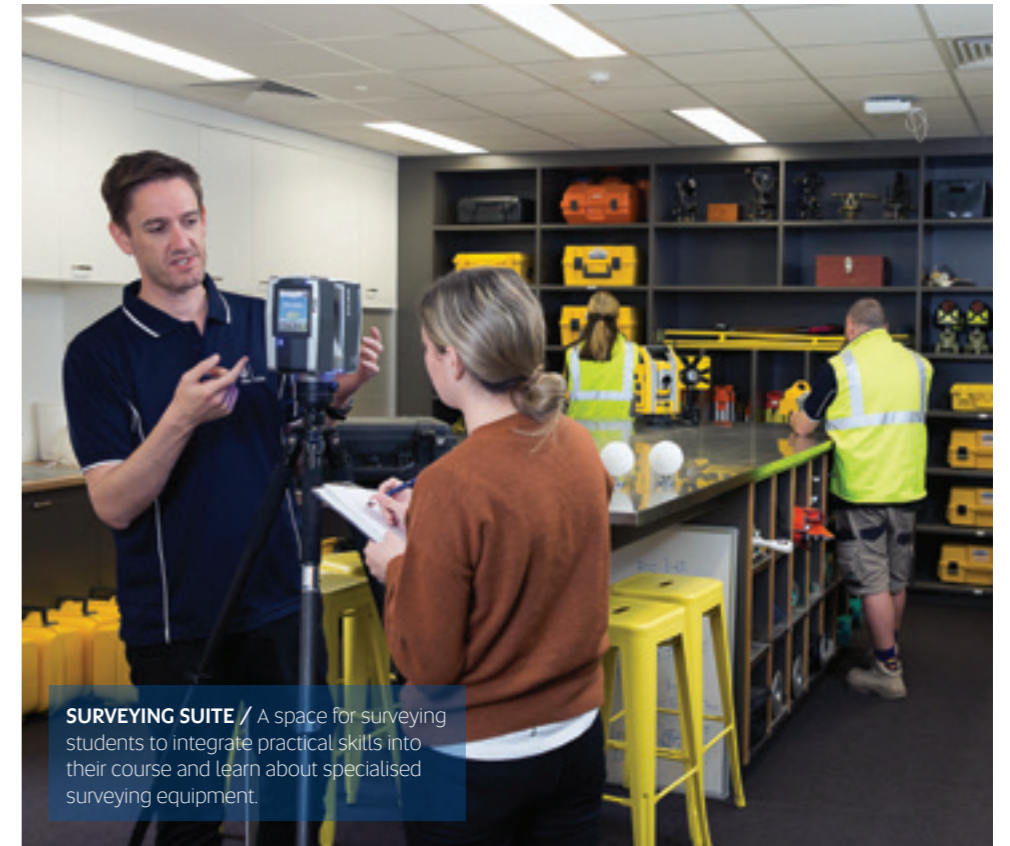


**TAKE A VIRTUAL CAMPUS TOUR**

[unisa.edu.au/virtualcampustours](https://unisa.edu.au/virtualcampustours)



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



**SURVEYING SUITE** / A space for surveying students to integrate practical skills into their course and learn about specialised surveying equipment.



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



**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 2018-2019 – Learning Resources Indicator. Public SA-founded universities only.

# GET CONNECTED

## 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 will learn in a highly practical environment with a focus on real-world applications. You can also take the opportunity to complete an internship or placement during your studies, learning from experts and building work-ready skills.

### TOP RANKING TEACHERS

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

### 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

Broaden your thinking and see the world through a range of global opportunities. Travel overseas through a student exchange, short-term program, internship, volunteering opportunity or study tour. Graduate with international experience and the skills to take on new challenges.

*International travel is subject to Australian Government guidelines.*

### REAL RESEARCH

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

### LEARN A LANGUAGE

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

[unisa.edu.au/languages](https://unisa.edu.au/languages)

### EXPERIENCE STUDENT LIFE

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

[unisa.edu.au/studentexperience](https://unisa.edu.au/studentexperience)

### GET CAREER READY

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

[unisa.edu.au/careers](https://unisa.edu.au/careers)



### #1 IN SA FOR STUDENT SATISFACTION

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



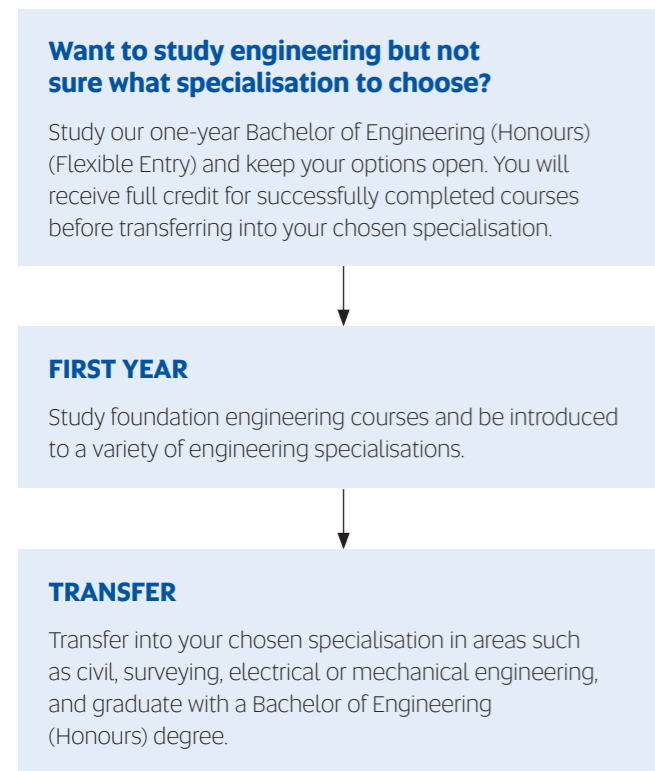
### COLLABORATING WITH 2,500+ COMPANIES WORLDWIDE

# ENGINEER YOUR FUTURE

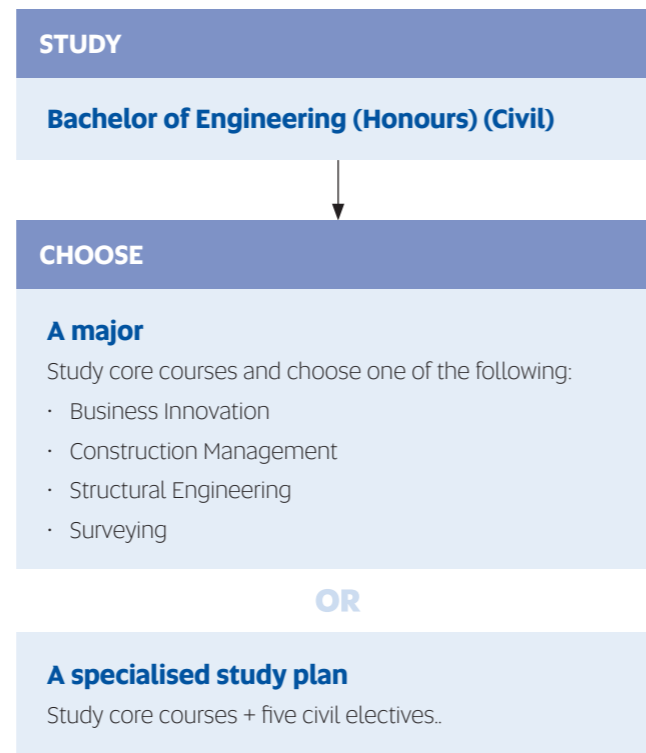


Explore our wide-range of engineering study options and tailor your degree to what interests you most.

## FLEXIBLE ENTRY



## CIVIL ENGINEERING



We also offer:

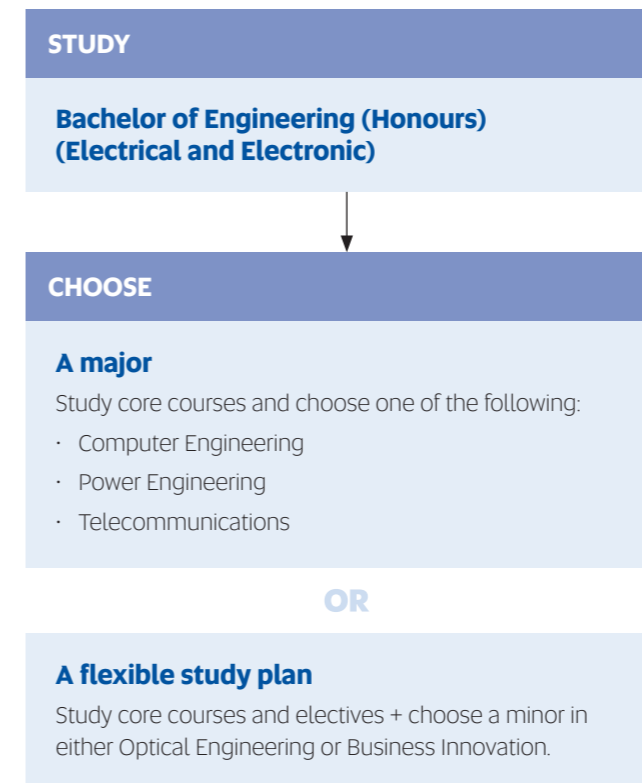
- Bachelor of Engineering (Honours) (Civil and Structural)
- Bachelor of Engineering (Honours) (Civil and Construction Management)

### 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. After you have completed this flexible two-year program, you can transfer into the second year of a Bachelor of Engineering (Honours) with your chosen specialisation and get credit for successfully completed courses. The associate degree can also be studied 100% online through UniSA Online, giving you the ultimate flexibility.

[See page 14 for more information](#)

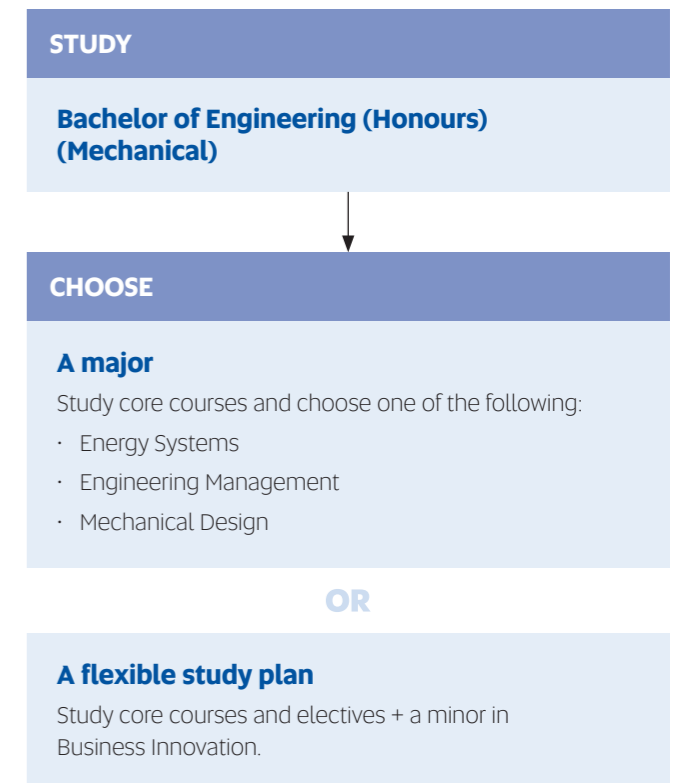
## ELECTRICAL AND ELECTRONIC ENGINEERING



We also offer:

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

## MECHANICAL ENGINEERING



We also offer:

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

### Engineering pathway options

Want to study an engineering degree but didn't complete the SACE Stage 2 Mathematical Methods prerequisite? Our Bachelor of Engineering (Honours) (Flexible Entry) program has tailored options depending on the level of mathematics you have completed. You will undertake 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 15 for more information](#)


If you have completed 20 credits of SACE Stage 1 Mathematics, we also offer a unique short course for you to complete the required prerequisite before starting your degree.

[unisa.edu.au/maths-short-course](http://unisa.edu.au/maths-short-course)

### INTERESTED IN SURVEYING?

You can also choose to study the Bachelor of Engineering (Honours) (Surveying), which builds on a strong foundation of civil engineering while gaining specialised knowledge in capturing data to help shape and contour different land environments.

[See page 27 for more information](#)



# STUDY 100% ONLINE

## Study On Demand

Do you want the ultimate flexibility? Then explore our range of 100% online degrees delivered through UniSA Online. You can study any time and on any device.

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

### 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 supports, 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

Learn more [unisaonline.edu.au](https://unisaonline.edu.au)



Degrees specifically designed for online learning



All 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

### DID YOU KNOW?

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



### UPSKILL WITH A SINGLE COURSE 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 that you can put towards a full degree.



# UNDERGRADUATE DEGREES

Your tertiary learning and career starts with undergraduate study.

Explore our 200+ world-class degrees

[unisa.edu.au/study](https://unisa.edu.au/study)

Learn more about how to apply

[unisa.edu.au/apply](https://unisa.edu.au/apply)

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Note: Published Selection Rank scores are indicative of February 2021 cut-offs.



### ATAR > DEGREE FINDER

Go online and check out our new ATAR > DEGREE FINDER to explore the degrees you may be eligible for using your Selection Rank.

[unisa.edu.au/atar-degree-finder](https://unisa.edu.au/atar-degree-finder)

## Associate Degree in Engineering

[unisa.edu.au/engineering](https://unisa.edu.au/engineering)

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

SATAC code	435021	Program code	LTEN
Selection Rank:	VET:		
cut-off 2021	62.55	guaranteed entry	CIV
guaranteed entry	65.00		

Part-time study available

**UniSA College pathways:** Foundation Studies

**Prerequisites:** SACE Stage 1 Mathematics or equivalent

**Assumed knowledge:** none

Kickstart your studies in engineering with an associate degree, before transitioning into a Bachelor of Engineering (Honours) to become a fully-qualified engineer or start a professional career in civil engineering, electrical engineering, mechanical engineering, or surveying. Graduate with credit (up to 1.5 years) for successfully completed courses that you can use towards your bachelor degree (entry criteria apply). Study introductory courses in engineering, mathematics, physics and chemistry in your first year and then complete core courses in your chosen specialisation in second year. Start to gain practical skills and competencies through a range of engagement activities in the Professional Practice Program, including internships, placements, guest lectures, industry panels, site visits, networking opportunities and events. Benefit from flexible learning options, including on-campus, online or blended study.

### BACHELOR SPECIALISATIONS

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

### CAREERS

Construction supervisor · project coordinator · site supervisor · maintenance engineer · technical support engineer · project scheduler · estimator

### DEGREE STRUCTURE

FIRST YEAR	INDICATIVE OF CIVIL SPECIALISATION	SECOND YEAR
	Essential Mathematics 1: Algebra and Trigonometry	Engineering Materials
	Introduction to Engineering Physics	Mathematical Methods for Engineers 1
	Programming Concepts	Introduction to Surveying and Spatial Sciences
	Sustainable Engineering Practice	Engineering and Environmental Geology
	Introduction to Engineering Chemistry	Mathematical Methods for Engineers 2
	Engineering Design and Innovation	Engineering Mechanics
	Essential Mathematics 2: Calculus	Project Management for Engineers
	Electrical and Electronic Systems	Fluid and Energy Engineering

### STUDY ON DEMAND

You can study the Associate Degree in Engineering 100% online through UniSA Online giving you the ultimate flexibility. Choose from four start dates in January, April, June or September.

[unisaonline.edu.au/asc-deg-engineering](https://unisaonline.edu.au/asc-deg-engineering)

## Bachelor of Engineering (Honours) (Flexible Entry)

[unisa.edu.au/engineering](https://unisa.edu.au/engineering)

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

SATAC code	434242	Program code	LHEF
Selection Rank:	VET:		
cut-off 2021	71.45	guaranteed entry	Dip
guaranteed entry	70.00		

Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**SAIBT pathways:** Diploma of Technology

**Prerequisites:** SACE Stage 1 Mathematics or equivalent

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

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

Study the first year of your engineering degree in a flexible program that introduces you to key engineering concepts, then transfer into a Bachelor of Engineering (Honours) with a specialisation of your choice to complete your qualification. Complete first-year courses and receive up to a full year of study credit. Learn about the fundamentals in engineering practices, mathematics, engineering materials, computer applications, engineering design and innovation, mechanics, and electronic systems. Go on to graduate with honours after an additional three years of study with a specialisation focusing on civil engineering, electrical engineering, mechanical engineering, or surveying. 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.

### SPECIALISATIONS

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

### 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 · surveyor

### DEGREE STRUCTURE

For students who have completed SACE Stage 1 Mathematics, or equivalent, with a C- grade or higher:

- Programming Concepts
- Engineering Materials
- Essential Mathematics 1: Algebra and Trigonometry
- Sustainable Engineering Practice
- Electrical and Electronic Systems
- Engineering Mechanics
- Essential Mathematics 2: Calculus

For students who have completed SACE Stage 2 General Mathematics, or equivalent, with a C- grade or higher:

- Programming Concepts
- Engineering Materials
- Essential Mathematics 2: Calculus
- Sustainable Engineering Practice
- Electrical and Electronic Systems
- Engineering Mechanics
- Mathematical Methods for Engineers 1

For students who have completed SACE Stage 2 Mathematical Methods, or equivalent, with a C- grade or higher:

- Programming Concepts
- Engineering Materials
- Mathematical Methods for Engineers 1
- Sustainable Engineering Practice
- Electrical and Electronic Systems
- Engineering Mechanics
- Mathematical Methods for Engineers 2






### LOOKING FOR ALTERNATIVE ENTRY?

Preference a packaged Diploma in Engineering/ Bachelor of Engineering (Honours) (Flexible Entry).


[unisa.edu.au/college](https://unisa.edu.au/college)  
SATAC code: 426068

## 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

SATAC code	<b>434481</b>	Program code	<b>LHMI</b>
Selection Rank:	VET:		
cut-off 2021	<b>73.50</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering  
**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)  
**SAIBT pathways:** Diploma of Technology  
**Prerequisites:** SACE Stage 2 Mathematical Methods  
 The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.  
**Assumed knowledge:** SACE Stage 2 Physics

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 by choosing a major study area in either Surveying, Business Innovation, 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 *4+1 Pathway to Masters* package.

Note: 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 Engineering (Honours) (Surveying)
- Bachelor of Construction Management (Honours)

### FURTHER STUDY

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

### DEGREE STRUCTURE

FIRST YEAR	THIRD YEAR
Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice	Design Management for Engineers Soil Mechanics Steel and Timber Design Hydraulics and Hydrology
SECOND YEAR	FOURTH YEAR
Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation	Water Resources Systems Design Geotechnical Engineering Reinforced Concrete Design Major
Engineering Modelling Mechanics of Materials 2 x Major Introduction to Water Engineering Road Design and Traffic Management Project Management for Engineers Major	Industrial Experience N Engineering Capstone Experience A Engineering Honours Project A 2 x Major Engineering Capstone Experience B Engineering Honours Project B 2 x Major



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-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

SATAC code	<b>434151</b>	Program code	<b>LHMI</b>
Selection Rank:	VET:		
cut-off 2021	<b>70.45</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering  
**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)  
**SAIBT pathways:** Diploma of Technology  
**Prerequisites:** SACE Stage 2 Mathematical Methods  
 The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.  
**Assumed knowledge:** SACE Stage 2 Physics

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 construction management courses such as Construction Scheduling and Advanced Construction Management 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 *4+1 Pathway to Masters* package.

Note: 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)
- Bachelor of Engineering (Honours) (Surveying)

### FURTHER STUDY

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

### DEGREE STRUCTURE

FIRST YEAR	THIRD YEAR
Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice	Design Management for Engineers Soil Mechanics Steel and Timber Design Hydraulics and Hydrology
SECOND YEAR	FOURTH YEAR
Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation	Water Resources Systems Design Geotechnical Engineering Reinforced Concrete Design Construction Scheduling
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	Industrial Experience N 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



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-to-masters)

## Bachelor of Engineering (Honours) (Civil and Structural)

unisa.edu.au/engineering

 Mawson Lakes Campus	 Intakes: Feb and Jul
 On-campus	 Professional Practice Program
 4 years full-time	
SATAC code <b>434941</b>	Program code <b>LHMI</b>
Selection Rank:	VET:
cut-off 2021 <b>73.05</b>	guaranteed entry <b>Dip</b>
guaranteed entry <b>75.00</b>	

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**SAIBT pathways:** Diploma of Technology

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

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 *4+1 Pathway to Masters* package.

Note: 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)
- Bachelor of Engineering (Honours) (Surveying)

### FURTHER STUDY

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

### DEGREE STRUCTURE

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



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-to-masters)

## Bachelor of Engineering (Honours) (Civil) Bachelor of Business

unisa.edu.au/engineering

 Mawson Lakes Campus	 Intakes: Feb and Jul
 On-campus/online	 Professional Practice Program
 5 years full-time	
SATAC code <b>434016</b>	Program code <b>LBCB</b>
Selection Rank:	VET:
cut-off 2021 <b>70.00</b>	guaranteed entry <b>Dip</b>
guaranteed entry <b>75.00</b>	

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

Complete a double degree combining civil engineering with business in just five years of study, with flexible learning options available. Learn to work creatively and sustainably in the design, construction and maintenance of critical infrastructure, including bridges and roads. Give yourself a competitive edge by also building core knowledge in marketing, management, international business and entrepreneurship, in order to develop the skills needed to work in diverse, interdisciplinary teams in the global business environment. 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 will graduate with two qualifications, including an engineering degree accredited by Engineers Australia. You will also be eligible for graduate membership, as well as membership with comparable international institutions.

### CAREERS

Civil engineer · geotechnical engineer · water resources engineer · environmental engineer · business development engineer · engineering operations manager · engineering consultant

### 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 Applied Project Management
- International Master of Business Administration

### DEGREE STRUCTURE

YEAR	COURSES
FIRST YEAR	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
SECOND YEAR	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
THIRD YEAR	Engineering Modelling Mechanics of Materials Accounting for Business Principles of Economics
FOURTH YEAR	Introduction to Water Engineering Road Design and Traffic Management Business and Society Project Management for Engineers
FIFTH YEAR	Design Management for Engineers Soil Mechanics Steel and Timber Design Hydraulics and Hydrology
SIXTH YEAR	Water Resources Systems Design Geotechnical Engineering Reinforced Concrete Design Business Law
SEVENTH YEAR	Industrial Experience N Engineering Capstone Experience A Engineering Honours Project A Marketing Principles: Trading and Exchange Civil Engineering Elective
EIGHTH YEAR	Engineering Capstone Experience B Engineering Honours Project B Entrepreneurship for Social and Market Impact Civil Engineering Elective
NINTH YEAR	International Business Environments Strategic Management 2 x Business Electives 2 x Advanced Business 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.








"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 and structural engineering graduate

## Bachelor of Engineering (Honours) (Electrical and Electronic)

unisa.edu.au/engineering

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

SATAC code	<b>434951</b>	Program code	<b>LHIF</b>
Selection Rank:	VET:		
cut-off 2021	<b>72.10</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering  
**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)  
**SAIBT pathways:** Diploma of Technology  
**Prerequisites:** SACE Stage 2 Mathematical Methods  
 The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.  
**Assumed knowledge:** SACE Stage 2 Physics

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 4+1 Pathway to Masters package.

Note: 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 Applied Project Management

### DEGREE STRUCTURE

FIRST YEAR	THIRD YEAR
Programming Concepts	Control Systems
Engineering Materials	Microcontroller Interfacing and Applications
Mathematical Methods for Engineers 1	Electrical Machines Major
Sustainable Engineering Practice	Embedded System Design
Mathematical Methods for Engineers 2	Design Management for Engineers
Engineering Mechanics	2 x Major
Electrical and Electronic Systems	
Engineering Design and Innovation	FOURTH YEAR
SECOND YEAR	Industrial Experience
Mathematical Methods for Engineers 3	Engineering Capstone Experience A
Circuits and Signals	Engineering Honours Project A
Engineering Physics	2 x Major
Major	Engineering Capstone Experience B
Analogue Devices and Circuits	Engineering Honours Project B
Digital Logic Fundamentals	2 x Major
Data Communication Technologies	
Project Management for Engineers	



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-to-masters)


## Bachelor of Engineering (Honours) (Electrical and Electronic)

## Bachelor of Business

unisa.edu.au/engineering

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

SATAC code	<b>434010</b>	Program code	<b>LBZB</b>
Selection Rank:	VET:		
cut-off 2021	<b>86.25</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering  
**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

Complete a double degree combining electrical and electronic engineering with business in just five years of study, with flexible learning options available. Focus on the design and operation of 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. Give yourself a competitive edge by also building core knowledge in marketing, management, international business and entrepreneurship, in order to develop the skills needed to work in diverse, interdisciplinary teams in the global business environment. 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 will graduate with two qualifications, including an engineering degree accredited by Engineers Australia. You will also be eligible for graduate membership, as well as membership with comparable international institutions.

### CAREERS

Electrical engineer · electronics engineer · power system engineer · telecommunications engineer · systems engineer · business development engineer · engineering operations manager · engineering consultant

### YOU MIGHT ALSO LIKE

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

### FURTHER STUDY

- Master of Engineering – *electrical specialisations*
- Master of Engineering (Engineering Management)
- Master of Applied Project Management
- International Master of Business Administration

### DEGREE STRUCTURE

FIRST YEAR	THIRD YEAR
Programming Concepts	Industrial Experience
Engineering Materials	Engineering Capstone Experience A
Mathematical Methods for Engineers 1	Engineering Honours Project A
Sustainable Engineering Practice	2 x Electrical Electives
Mathematical Methods for Engineers 2	Engineering Capstone Experience B
Engineering Mechanics	Engineering Honours Project B
Electrical and Electronic Systems	Business Law
Engineering Design and Innovation	Electrical Elective
SECOND YEAR	FOURTH YEAR
Mathematical Methods for Engineers 3	Marketing Principles: Trading and Exchange
Circuits and Signals	Entrepreneurship for Social and Market Impact
Engineering Physics	International Business Environments
Software Development	Strategic Management
Analogue Devices and Circuits	2 x Business Electives
Digital Logic Fundamentals	2 x Advanced Business Electives
Data Communications Technologies	
Project Management for Engineers	
THIRD YEAR	FIFTH YEAR
Control Systems	
Microcontroller Interfacing and Applications	
Electrical Machines	
Accounting for Business	
Embedded System Design	
Principles of Economics	
Business and Society	
Design Management for Engineers	

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








"I 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, which were a chance to actually apply the theory that I'd been learning and to get experience with the tools that make things happen in industry."

Liam Mallamo  
Electrical and electronic engineering graduate

## Bachelor of Engineering (Honours) (Electrical and Mechatronic)

unisa.edu.au/engineering

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

SATAC code	<b>434451</b>	Program code	<b>LHIF</b>
Selection Rank:	VET:		
cut-off 2021	<b>74.75</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**SAIBT pathways:** Diploma of Technology

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

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 *4+1 Pathway to Masters* package.

Note: 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 Applied Project Management

### DEGREE STRUCTURE

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



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-to-masters)

## Bachelor of Engineering (Honours) (Mechanical)

unisa.edu.au/engineering

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

SATAC code	<b>434321</b>	Program code	<b>LHMR</b>
Selection Rank:	VET:		
cut-off 2021	<b>72.10</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**SAIBT pathways:** Diploma of Technology

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

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 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 *4+1 Pathway to Masters* package.

Note: 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 Applied Project Management

### DEGREE STRUCTURE

FIRST YEAR	THIRD YEAR
Programming Concepts	Control Systems
Engineering Materials	Computer Aided Engineering Practice
Mathematical Methods for Engineers 1	Energy Conversion and Management Major
Sustainable Engineering Practice	Mechanics of Machines
Mathematical Methods for Engineers 2	Design Management for Engineers
Engineering Mechanics	2 x Major
Electrical and Electronic Systems	Industrial Experience
Engineering Design and Innovation	Engineering Capstone Experience A
SECOND YEAR	FOURTH YEAR
Mathematical Methods for Engineers 3	Engineering Honours Project A
Mechanical Engineering Practice	2 x Major
Mechanics of Materials	Engineering Capstone Experience B
Major	Engineering Honours Project B
Engineering Dynamics	2 x Major
Fluid and Energy Engineering	
Mechanical Design Practice	
Project Management for Engineers	



### 4+1 PATHWAY 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 Pathway to Masters options.


 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-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

SATAC code	434791	Program code	LHMR
Selection Rank:	VET:		
cut-off 2021	70.00	guaranteed entry	Dip
guaranteed entry	75.00		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**SAIBT pathways:** Diploma of Technology

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

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 4+1 Pathway to Masters package.

Note: 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 · product development 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 Applied Project Management

### DEGREE STRUCTURE

FIRST YEAR	THIRD YEAR
Programming Concepts	Control Systems
Engineering Materials	Computer Aided Engineering Practice
Mathematical Methods for Engineers 1	Energy Conversion and Management
Sustainable Engineering Practice	Intelligent Manufacturing Systems
Mathematical Methods for Engineers 2	Mechanics of Machines
Engineering Mechanics	Advanced Thermo-Fluid Engineering
Electrical and Electronic Systems	Design in Plastics and Advanced Composites
Engineering Design and Innovation	Design Management for Engineers
Mathematical Methods for Engineers 3	Industrial Experience
Mechanical Engineering Practice	Engineering Capstone Experience A
Mechanics of Materials	Engineering Honours Project A
Manufacturing Processes	Total Quality Management
Engineering Dynamics	Robotics and Automation
Fluid and Energy Engineering	Engineering Capstone Experience B
Mechanical Design Practice	Engineering Honours Project B
Project Management for Engineers	Integrated Industrial Actuation
	Design for Manufacture and Assembly



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-to-masters)

## 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

SATAC code	434781	Program code	LHMR
Selection Rank:	VET:		
cut-off 2021	77.05	guaranteed entry	Dip
guaranteed entry	75.00		

 Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering

**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)

**SAIBT pathways:** Diploma of Technology

**Prerequisites:** SACE Stage 2 Mathematical Methods

The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.

**Assumed knowledge:** SACE Stage 2 Physics

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 smarter and improve technologies that meet human and environmental needs. Study specialised courses and the latest developments in robotics, machine tool control and machine vision systems. 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 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 4+1 Pathway to Masters package.

Note: 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 Applied Project Management

### DEGREE STRUCTURE

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



### 4+1 PATHWAY 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 Pathway to Masters options.

 [unisa.edu.au/pathway-to-masters](https://unisa.edu.au/pathway-to-masters)

# Bachelor of Engineering (Honours) (Mechanical) Bachelor of Business

unisa.edu.au/engineering

Mawson Lakes Campus	Intakes: Feb and Jul
On-campus/online	Professional Practice Program
5 years full-time	
SATAC code <b>434015</b>	Program code <b>LBEB</b>
Selection Rank:	VET:
cut-off 2021 <b>72.55</b>	guaranteed entry <b>Dip</b>
guaranteed entry <b>75.00</b>	

Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering  
**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)  
**Prerequisites:** SACE Stage 2 Mathematical Methods  
 The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.  
**Assumed knowledge:** SACE Stage 2 Physics

Complete a double degree combining mechanical engineering with business in just five years of study, with flexible learning options available. Discover the latest in mechanical system design, robotics and automation, manufacturing technologies and sustainable energy technologies. Give yourself a competitive edge by also building core knowledge in marketing, management, international business and entrepreneurship, in order to develop the skills needed to work in diverse, interdisciplinary teams in the global business environment. 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 will graduate with two qualifications, including an engineering degree accredited by Engineers Australia. You will also be eligible for graduate membership, as well as membership with comparable international institutions.

## CAREERS

Mechanical engineer · production engineer · business development engineer · mechanical designer · engineering operations manager · engineering consultant



"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

## 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 Applied Project Management
- International Master of Business Administration

## DEGREE STRUCTURE

Year	Courses
<b>FIRST YEAR</b>	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
<b>SECOND YEAR</b>	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems Engineering Design and Innovation
<b>THIRD YEAR</b>	Control Systems Computer Aided Engineering Practice Energy Conversion and Management Engineering Modelling Mechanics of Machines Advanced Thermo-Fluid Engineering Mechanical elective Design Management for Engineers
<b>FOURTH YEAR</b>	Industrial Experience Engineering Capstone Experience A Engineering Honours Project A Accounting for Business Principles of Economics
<b>FIFTH YEAR</b>	Engineering Capstone Experience B Engineering Honours Project B Business and Society Business Law Marketing Principles: Trading and Exchange Entrepreneurship for Social and Market Impact International Business Environments Strategic Management 2 x Business Electives 2 x Advanced Business 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) (Surveying)

unisa.edu.au/engineering

Mawson Lakes Campus	Intakes: Feb and Jul
On-campus	Professional Practice Program
4 years full-time	
SATAC code <b>434002</b>	Program code <b>LHES</b>
Selection Rank:	VET:
cut-off 2021 <b>75.00</b>	guaranteed entry <b>Dip</b>
guaranteed entry <b>75.00</b>	

Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Engineering  
**UniSA pathways:** Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entry)  
**Prerequisites:** SACE Stage 2 Mathematical Methods  
 The UniSA Maths Short Course is available for students who do not have the mathematics prerequisites. See page 10.  
**Assumed knowledge:** SACE Stage 2 Physics

Study South Australia's only undergraduate degree providing a pathway to become a licensed surveyor. Learn to capture data about the shape and contour of different land environments for engineering, mapmaking and construction projects. You will study core courses in civil engineering and develop highly specialised knowledge in surveying, remote sensing, cartography and photogrammetry, along with business management to prepare you for the workplace. Explore key concepts such as modelling, spatial data analysis, engineering design and law. 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 for real clients, from the tender phase through to feasibility, concept development and detailed design. Graduate with a degree recognised by the Surveyors Board of South Australia and continue your professional training to become a certified surveyor.

Note 1: Graduates will be eligible to apply to the Surveyors Board of South Australia to complete training in cadastral surveying, which can lead to formal licensing as a Surveyor.

Note 2: 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

Licensed surveyors can work in a variety of settings, including:  
 Construction companies · private consultancies · government departments · councils · engineering firms · environmental protection agencies

## YOU MIGHT ALSO LIKE

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

## FURTHER STUDY

- Master of Engineering – civil specialisations
- Master of Engineering (Engineering Management)
- Master of Applied Project Management

## DEGREE STRUCTURE

Year	Courses
<b>FIRST YEAR</b>	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice
<b>SECOND YEAR</b>	Mathematical Methods for Engineers 2 Electrical and Electronic Systems Engineering Mechanics Engineering Design and Innovation
<b>THIRD YEAR</b>	Introduction to Surveying and Spatial Sciences Engineering Modelling Mechanics of Materials Elective Land Law and Administration Spatial Data Acquisition and Analysis Introduction to Water Engineering Project Management for Engineers
<b>FOURTH YEAR</b>	Industrial Experience N Engineering Capstone Experience A Engineering Honours Project A Cadastral Surveying SVY2105 Surveying Computations B (University of Southern Queensland) Engineering Capstone Experience B Engineering Honours Project B Surveying Applications GNSS and Advanced Surveying Technologies

# Bachelor of Construction Management

[unisa.edu.au/construction](http://unisa.edu.au/construction)

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

SATAC code	414301	Program code	IBBE
Selection Rank:	VET:		
cut-off 2021	65.00	guaranteed entry	Dip
guaranteed entry	70.00		

Part-time study available honours available

**UniSA College pathways:** Foundation Studies or Diploma in Construction  
**Prerequisites:** none  
**Assumed knowledge:** none

Build 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. Develop your knowledge in estimating, contract administration, scheduling and cost planning. 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) degree with only one year of extra study – *criteria apply*.

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

## CAREERS

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



*"I've always been interested in construction and the recent industry 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 graduate

## 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)
- Bachelor of Engineering (Honours) (Surveying)

## FURTHER STUDY

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

## DEGREE STRUCTURE

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

# Bachelor of Construction Management (Honours)

[unisa.edu.au/construction](http://unisa.edu.au/construction)

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

SATAC code	414021	Program code	IHCN
Selection Rank:	VET:		
cut-off 2021	75.05	guaranteed entry	Dip
guaranteed entry	80.00		

Part-time study available

**UniSA College pathways:** Foundation Studies or Diploma in Construction  
**Prerequisites:** none  
**Assumed knowledge:** none

Study South Australia's only honours degree combining construction management, quantity surveying and building surveying. Prepare for future leadership and managerial roles in the building and construction industry and develop the technical and practical skills to manage large-scale commercial, infrastructure and residential projects. Learn about the fundamentals of construction, including building technology and building structures. Develop your knowledge in contract administration, development regulation and development economics. Tailor your studies by choosing to focus on two key specialisation areas in your final year, including Quantity Surveying, Building Surveying or Construction Management. 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. Depending on your final year specialisation, you will 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 Institution of Chartered Surveyors (UK). Complete your bachelor's degree and a master's qualification in just five years through our *4+1 Pathway to Masters* package.

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

## CAREERS

Construction manager · capital works manager · operations manager · quantity surveyor · building surveyor · project manager · 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)
- Bachelor of Engineering (Honours) (Surveying)

## FURTHER STUDY

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

## DEGREE STRUCTURE

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



## LOOKING FOR ALTERNATIVE ENTRY?

Preference a packaged Diploma in Construction/ Bachelor of Construction Management (Honours).

[unisa.edu.au/college](http://unisa.edu.au/college)

SATAC code: 426072



## 4+1 PATHWAY 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 Pathway to Masters options.

[unisa.edu.au/pathway-to-masters](http://unisa.edu.au/pathway-to-masters)



## Bachelor of Construction Management

[unisaonline.edu.au/construction-management](http://unisaonline.edu.au/construction-management)

<b>100% ONLINE</b>				
<table border="0"> <tr> <td> UniSA Online</td> <td> Intakes: Jan, Apr, Jun, Sept</td> </tr> <tr> <td> 3 years full-time</td> <td> Real-world projects</td> </tr> </table>	UniSA Online	Intakes: Jan, Apr, Jun, Sept	3 years full-time	Real-world projects
UniSA Online	Intakes: Jan, Apr, Jun, Sept			
3 years full-time	Real-world projects			

Program code	<b>XBBE</b>
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Part-time study available

**Time commitment:** 10 – 15 hours per week per course

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

**Prerequisites:** none

**Assumed knowledge:** none

### 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, anytime, and on any device. Benefit from flexible study with no need to attend lectures or come on campus – all courses and assessments are delivered online. Scholarships and grants are also available for eligible students.

### CAREERS

Construction manager · quantity surveyor · building surveyor · project manager · site supervisor · estimator · construction planner · 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](http://unisaonline.edu.au/eligibility)
2. Gather your relevant documents
3. Complete your application and send through your documents

Apply directly at [unisaonline.edu.au](http://unisaonline.edu.au) or call 1800 531 962

### DEGREE STRUCTURE

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

## Bachelor of Construction Management (Honours)

[unisaonline.edu.au/construction-management-honours](http://unisaonline.edu.au/construction-management-honours)

<b>100% ONLINE</b>				
<table border="0"> <tr> <td> UniSA Online</td> <td> Intakes: Jan, Apr, Jun, Sept</td> </tr> <tr> <td> 4 years full-time</td> <td> Professional Practice Program</td> </tr> </table>	UniSA Online	Intakes: Jan, Apr, Jun, Sept	4 years full-time	Professional Practice Program
UniSA Online	Intakes: Jan, Apr, Jun, Sept			
4 years full-time	Professional Practice Program			

Program code	<b>XHCM</b>
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Part-time study available

**Time commitment:** 10 – 15 hours per week per course

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

**Prerequisites:** none

**Assumed knowledge:** none

### 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, anytime, and on any device. Benefit from flexible study with no need to attend lectures or come on campus – all courses and assessments are delivered online. Scholarships and grants are also available for eligible students.

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

### CAREERS

Construction manager · quantity surveyor · building surveyor · project manager · site supervisor · estimator · construction planner · 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](http://unisaonline.edu.au/eligibility)
2. Gather your relevant documents
3. Complete your application and send through your documents

Apply directly at [unisaonline.edu.au](http://unisaonline.edu.au) or call 1800 531 962

### DEGREE STRUCTURE

<b>FIRST YEAR</b>	Critical Approaches to Online Learning OR Elective Introduction to Construction Management Construction Communication Construction 1 Construction Materials Introduction to Construction Business Management Structures 1 Introduction to Contract Administration	<b>THIRD YEAR</b>	Development Regulation Construction 3 Project Appraisal Construction Cost Planning Project Appraisal Fire Technology Building Surveying Advanced Contract Administration
<b>SECOND YEAR</b>	Construction Scheduling Construction 2 Quantity Surveying Practice 1 Contract Administration Structures 2 Building Estimating Building Services Construction Environmental Science	<b>FOURTH YEAR</b>	Integrated Project Research Theory and Practice Construction Management Honours Research Project A Construction Management Honours Research Project B Industry Experience 4 x 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](http://unisa.edu.au/aviation)

Mawson Lakes Campus				
<table border="0"> <tr> <td> On-campus</td> <td> Intakes: Feb and Jul</td> </tr> <tr> <td> 3 years full-time</td> <td> Real-world projects</td> </tr> </table>	On-campus	Intakes: Feb and Jul	3 years full-time	Real-world projects
On-campus	Intakes: Feb and Jul			
3 years full-time	Real-world projects			

SATAC code	<b>434141</b>	Program code	<b>LBAN</b>
Selection Rank:		VET:	
cut-off 2021	<b>65.00</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>75.00</b>		

Part-time study available

**UniSA College pathways:** Foundation Studies

**Prerequisites:** none

**Assumed knowledge:** none

Study South Australia's only aviation degree 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 will 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 delivered through this program. If your goal is to become a commercial airline pilot, and you want to undertake practical flight training with UniSA, you will need to apply to study the Graduate Diploma in Aviation.

*Note: Students wishing to complete practical flight training with UniSA will need to apply to study the Graduate Diploma of Aviation (LGAN) concurrently with the Bachelor of Aviation (Pilot) (LBAN) from the second year of the bachelor's program. Admission into LBAN does not guarantee entry into LGAN, and strict selection and entry criteria apply. Offers for admission may also be subject to a cap on student numbers. See page 34 for more information.*

### 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)
- Bachelor of Engineering (Honours) (Flexible Entry)

### FURTHER STUDY

- Graduate Diploma in Aviation

### DEGREE STRUCTURE

<b>FIRST YEAR</b>	Professional and Technical Communications Aviation Physics 1N Introduction to Aviation Aviation Practice	<b>THIRD YEAR</b>	Airline Transport Pilot Theory 1 Risk and Safety Management Systems Elective Airport Transport Pilot Theory 2 Large Aircraft Flight Operations Elective Aviation Project
	Introduction to Aviation Management Introduction to Aviation Safety Elective University Elective		
<b>SECOND YEAR</b>	Flight Training Theory 1 Communication and Research Methods Aviation Law Elective Commercial Pilot Theory Airlines Operation Management		

## Bachelor of Aviation (Management)

[unisa.edu.au/aviation](http://unisa.edu.au/aviation)

Mawson Lakes Campus				
<table border="0"> <tr> <td> On-campus</td> <td> Intakes: Feb and Jul</td> </tr> <tr> <td> 3 years full-time</td> <td> Real-world projects</td> </tr> </table>	On-campus	Intakes: Feb and Jul	3 years full-time	Real-world projects
On-campus	Intakes: Feb and Jul			
3 years full-time	Real-world projects			

SATAC code	<b>434131</b>	Program code	<b>LBAN</b>
Selection Rank:		VET:	
cut-off 2021	<b>66.15</b>	guaranteed entry	<b>Dip</b>
guaranteed entry	<b>70.00</b>		

Part-time study available

**UniSA College pathways:** Foundation Studies

**Prerequisites:** none

**Assumed knowledge:** none

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

- Master of Applied Project Management
- Master of Management (Supply Chain Management)
- Master of Management (Human Resource Management)
- International Master of Business Administration

### DEGREE STRUCTURE

<b>FIRST YEAR</b>	Management and Organisation Professional and Technical Communication Introduction to Aviation Aviation Practice	<b>THIRD YEAR</b>	Risk and Safety Management Systems Airport Management Elective 1 Communications and Research Methods
	Quantitative Methods for Business Introduction to Aviation Management Introduction to Aviation Safety Human Factors 1		Aviation Strategic Management Organisational Leadership Project Management: Principles and Strategies Aviation Project
<b>SECOND YEAR</b>	Aviation Law Principles of Economics Aviation Marketing Human Factors 2 Airline Finance Aviation Economics Airline Operations Management University Elective		

# 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](https://unisa.edu.au/study)

Learn more about our research degrees [unisa.edu.au/researchdegrees](https://unisa.edu.au/researchdegrees)

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## Master of Engineering

Degrees:

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

[unisa.edu.au/engineering](https://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	4CM156	4CM162
Program code	LMCL	LMCL

Part-time study available \*see page 40 for more information

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 will 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 will learn to create and design key water resources and management systems. Access industry-standard facilities on campus, including high-tech testing and computer-modelling equipment. You can also choose to study project management and leadership in your degree through elective courses. 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. Get your eligible prior learning recognised and apply for credit, reducing the length of your degree. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You will also be eligible for membership with comparable international institutions.

### CAREERS

Depending on your chosen program, 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.

### YOU MIGHT ALSO LIKE

- Master of Engineering (Engineering Management)
- Master of Applied Project Management

### DEGREE STRUCTURE

FIRST YEAR	INDICATIVE OF CIVIL AND INFRASTRUCTURE PROGRAM	SECOND YEAR
	Soil Mechanics Steel and Timber Design Research Data Analysis Elective 1 Geotechnical Engineering Reinforced Concrete Design Advanced Soil Mechanics Elective 2	Engineering Masters Industrial Experience Engineering and Environmental Masters Design Project Masters Research Theory and Practice Elective 3 Masters Research Project Elective 4 Elective 5

## Master of Engineering

Degrees:

- Master of Engineering (Electrical Power)
- Master of Engineering (Telecommunications)

[unisa.edu.au/engineering](https://unisa.edu.au/engineering)

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

	Electrical Power	Telecommunications
SATAC code	4CM126	4CM127
Program code	LMEL	LMEL

Part-time study available \*see page 40 for more information

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 will 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 Telecommunications, you will learn about information and communication technologies by exploring wireless and mobile communication systems, information theory and coding, and complex telecommunication networks. 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. Benefit from links to our internationally-recognised research institutes, centres and concentrations. Get your prior learning recognised and apply for credit, reducing the length of your degree.

### CAREERS

Depending on your chosen program, 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 in electrical engineering, or a related discipline, or equivalent qualification.
- Entry is competitive and experience in engineering and information technology, along with completion of professional qualifications will be taken into account.

### YOU MIGHT ALSO LIKE

- Master of Engineering (Engineering Management)
- Master of Applied Project Management

### DEGREE STRUCTURE

FIRST YEAR	INDICATIVE OF ELECTRICAL POWER PROGRAM	SECOND YEAR	CORE COURSES
	Renewable Energy Systems Power System Fundamentals Engineering Research Practice 4 x Elective Group 1 Select four elective courses from: Design and Integration of Renewable Energy Systems Operation and Control of Modern Power Systems Power Electronics Advanced Control and Signal Processing Industrial Automation Systems OR Electronic Filters and Amplifiers VLSI Design Digital Signal Processing Energy and Society		Engineering Masters Industrial Experience Elective Group 2 Renewable and Distributed Power Generation Advanced Electrical Machines Advanced Power System Modelling and Analysis Engineering Minor Thesis 1 Engineering Minor Thesis 2 Select one elective course from: Engineering Economic Analysis Total Quality Management Lean Six Sigma Project Planning and Control G Enterprise Resource Planning Operations Management Systems

## Master of Engineering (Engineering Management)

Nested with:

- Graduate Certificate in Engineering (Engineering Management)
- Graduate Diploma in Engineering (Engineering Management)

[unisa.edu.au/engineering](https://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
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Part-time study available \*see page 40 for more information

Learn how to manage operations within an engineering project, department or organisation. Develop advanced knowledge and skills in operations management, total quality management, supply chain management, enterprise resource planning, automation, and project management. Tailor your studies through a wide range of electives, including project planning and control, intelligent production systems and energy management. 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

### 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.
- Entry is competitive and experience in engineering and information technology, along with completion of professional qualifications will be taken into account.

### YOU MIGHT ALSO LIKE

- Master of Engineering – various specialisations
- Master of Applied Project Management

### DEGREE STRUCTURE

FIRST YEAR	Principles of Project Management Total Quality Management Intelligent Production Systems Elective 1 Lean Six Sigma Sustainable Development and Design Practice People, Leadership and Performance Elective 1
SECOND YEAR	Supply Chain Management G Project Planning and Control G Masters Research Theory and Practice Elective 2 Operations Management Systems Enterprise Resource Planning Minor Thesis 1 (Eng)



"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

## Master of Applied Project Management

Degrees:

- Master of Applied Project Management
- Master of Applied Project Management (Contract Management)
- Master of Project Management

Nested with:

- Graduate Certificate in Project Management
- Graduate Diploma in Project Management
- Graduate Diploma in Project Management (Contract Management)

[unisa.edu.au/projectmanagement](http://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	IMAM	IMAM

Part-time study available \*see page 40 for more information

Fast-track your studies in project management by studying a 1.5 year program where you will develop fundamental knowledge that can be applied across a wide variety of sectors. Develop an advanced understanding of risk management, leadership, strategy and international best practice. Graduate with the skills to apply effective project management methodologies, work in multi-disciplinary teams and manage projects from inception to delivery and evaluation. Complete a major integrated research project, which can focus on a real issue or challenge within your workplace. Benefit from a program that explores the latest international best practice guidelines from PMI (PMBOK) and PRINCE2. You can also choose to specialise in Contract Management, the only specialisation of its kind in Australia, focused on understanding, negotiating and administering contracts. Graduate with a degree endorsed by the Australian Institute of Project Management, a member of the International Project Management Association (IPMA).

### 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 from a recognised higher education institution.

### DEGREE STRUCTURE

FIRST YEAR	INDICATIVE OF APPLIED PROJECT MANAGEMENT PROGRAM	SECOND YEAR
	Principles of Project Management Project Risk Management Procurement and Contract Management Project Governance and Ethics Project Control Methods Project Leadership and Teams Economic, Social and Environmental Analysis Masters Research Theory and Practice	Portfolio and Program Management Masters Research Project Select one of the following courses: Managing Complexity in Projects Business Continuity Management Systems

*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/surveying](http://unisa.edu.au/surveying)

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

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

Part-time study available \*see page 40 for more information

Develop the knowledge and skills to become a professionally accredited 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 and the complete building lifecycle. Focus on core courses in building processes and technologies, assessment and analysis of structures, construction law, and building codes and regulations. Graduate with accreditation as a Building Surveyor (Level 1) with the Australian Institute of Building Surveyors (AIBS).

*Note: The Graduate Certificate in Building Surveying (ICBE) provides an entry pathway into this program 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 the University of South Australia, 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 Certificate in Space Studies

[unisa.edu.au/engineering](http://unisa.edu.au/engineering)

Mawson Lakes Campus	Intakes: Feb and Jul
On-campus/online	A\$15,000 pa* <i>indicative 2021</i>
0.5 years full-time	

SATAC code	n/a	Program code	LCSD
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\*see page 40 for more information

Explore your curiosity and complete a postgraduate qualification in space studies. Complete an individual space-themed research project under the supervision and advice of 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](http://unisa.edu.au/applyonline)

### SHSSP

The Southern Hemisphere Space Studies Program (SHSSP) is an intensive held during summer. The program is conducted by the University of South Australia, 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

FIRST YEAR	ISU SOUTHERN HEMISPHERE SUMMER SPACE PROGRAM – ELECTIVE COURSE (UNISA COMPONENT)
	Space Studies Project OR Strategic Space Law

Students may complete their studies online or on-campus.

## Graduate Diploma in Aviation

[unisa.edu.au/aviation](http://unisa.edu.au/aviation)

Mawson Lakes Campus	Intakes: n/a
On-campus	Flight training
2 years part-time	A\$102,000 pa* <i>indicative 2021</i>

SATAC code	n/a	Program code	LGAN
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Part-time study only

\*see page 40 for more information

*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 experienced instructors. Develop the knowledge, skills and key competencies to sit for a Commercial Pilot Licence (CPL). Be prepared to work as a first officer in a multi-crew aircraft or as a pilot in command of single engine operations. Submit detailed flight plans and access the latest aerodrome alerts and weather forecasts. Benefit from strong links to industry, including 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) program to be eligible to apply for the Graduate Diploma in Aviation (LGAN), however admission into LBAN does not guarantee entry into LGAN. Entry into LGAN is subject to a specific entry process which occurs after the commencement of LBAN. Strict selection and entry criteria apply to LGAN. Offers for admission into LGAN may also be subject to a cap on student numbers. LGAN is delivered at the UNISA Aviation Academy, based at Parafield Airport.

### Entry criteria

The selection process is competitive and includes a formal interview, flight aptitude test and assessment of English proficiency. The interview will assess the skills and qualities considered important for professional practice, including 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 in LGAN. Offers will, however, be limited to the number of places available in LGAN.

### 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

LGAN must be studied concurrently with the Bachelor of Aviation (Pilot) (LBAN). The University will invite students to apply for LGAN during their first year of study in LBAN.

Apply directly at [unisa.edu.au/applyonline](http://unisa.edu.au/applyonline)

### 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](http://unisa.edu.au/fees) and [studyassist.gov.au/help-loans](http://studyassist.gov.au/help-loans)

### FURTHER STUDY

- 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

## Masters by Research

### Doctor of Philosophy (PhD)

[unisa.edu.au/researchdegrees](http://unisa.edu.au/researchdegrees)

Our research degrees are designed to give you expertise and help make a difference to society. You will help to solve real-world problems, partner with end-users of research, and develop skills for research excellence with career relevance.

We offer a wide range of research projects across a variety of research areas that are developed by teams of world-class researchers who will supervise you during your studies.

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

### TOPICS OF RESEARCH

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

### Entry requirements

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

### Masters by Research

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

### Doctor of Philosophy (PhD)

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

### Alternative entry

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

[research.degrees@unisa.edu.au](mailto:research.degrees@unisa.edu.au)



### STUDY A PROJECT-BASED RESEARCH DEGREE

Apply for a research degree and choose from one of our many research projects, including some with financial support.

[unisa.edu.au/research-projects](http://unisa.edu.au/research-projects)



"Studying at UniSA has been a life-changing experience. You get real support from the whole academic community. Throughout my degree I've had everything I need to conduct my research and have been pushed to challenge and reframe my thinking."

Mathias Aakjiir  
PhD candidate, mechanical engineering

# YOUR STUDENT EXPERIENCE

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

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

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

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

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

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

**STUDENT LOUNGES** feature open social spaces, study nooks, kitchen facilities, mobile charging stations, lockers, gaming stations and more.

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

**24-HOUR SECURITY** services are available on campus and the free SafeZone app can be downloaded through the App Store or Google Play.

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



## MYCAREERMATCH

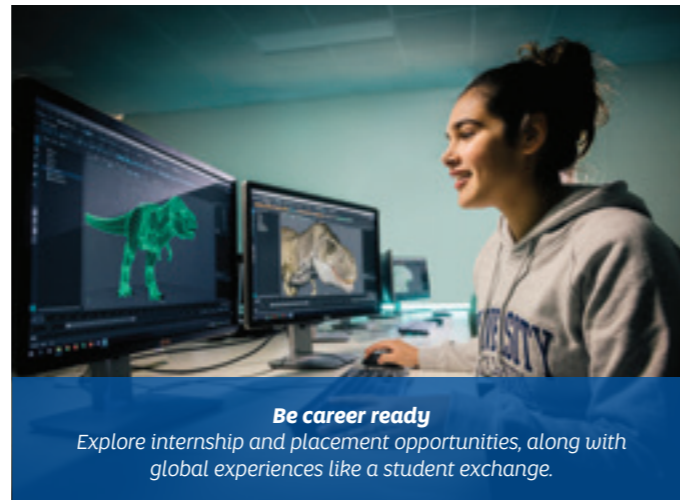
MyCareerMatch is a free personality and career profiling tool that you can complete before you start university. Contact Future Student Enquiries on (08) 8302 2376 or at [unisa.edu.au/enquire](https://unisa.edu.au/enquire)



## ATAR > DEGREE FINDER

Go online and check out our new ATAR > DEGREE FINDER to explore the degrees you may be eligible for using your Selection Rank.

🔗 [unisa.edu.au/atar-degree-finder](https://unisa.edu.au/atar-degree-finder)



### Be career ready

Explore internship and placement opportunities, along with global experiences like a student exchange.



### Keep active

Join one of our teams through UniSA Sport and make new friends along the way.



### Discover our heart

Pridham Hall features a graduation space, sports centre, gym and swimming pool located at City West Campus.



### Get involved

Attend events and activations on campus and experience our vibrant student culture.



### Keep connected

Access our range of student support services so you can perform at your best.



## OPEN DAYS

### ONLINE Launching August 2021

Access all your study and career information, anytime from anywhere.

### ON CAMPUS August 2021

Visit your future campus throughout August, take a guided tour, and speak with teaching staff and current students. Register at:

🔗 [unisa.edu.au/openday](https://unisa.edu.au/openday)

## 2021 EVENTS AND WEBINARS

We host a series of events and webinars throughout the year so you can learn more about studying with UniSA.

## CAMPUS TOURS

We offer guided campus tours during the school holidays, which you can book online.

🔗 [unisa.edu.au/infosessions](https://unisa.edu.au/infosessions)

# STUDY AT UniSA – THE BASICS

## Minimum entry requirements for undergraduate degrees

### 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) including adjustment factors; and
- The fulfilment of the program's prerequisite requirements (where applicable).

Applicants may also be eligible to compete for entry if they have completed the program's prerequisite requirements and 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](https://unisa.edu.au/Year-12)

#### Selection by Grades

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

[unisa.edu.au/selection-by-grades](https://unisa.edu.au/selection-by-grades)

### ADJUSTMENT FACTORS

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

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

[unisa.edu.au/adjustmentfactors](https://unisa.edu.au/adjustmentfactors)

### GUARANTEED ENTRY

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

[unisa.edu.au/guaranteed](https://unisa.edu.au/guaranteed)

### ADMISSIONS PATHWAYS

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

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

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

**Vocational Education Training (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 above.

**Higher education diploma** – completion of a relevant higher education diploma from UniSA College, SAIBT or another recognised higher education institution.

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

**Alternative education providers** – there are a range of alternative pathways, including bridging qualifications offered through SAIBT and Eynesbury.

**Open Universities Australia (OUA)** – completion of at least four OUA courses within the same degree at an undergraduate level or higher.

[unisa.edu.au/pathways](https://unisa.edu.au/pathways)

### SCHOLARSHIPS

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

[unisa.edu.au/scholarships](https://unisa.edu.au/scholarships)

### HOW TO APPLY

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

[unisa.edu.au/apply](https://unisa.edu.au/apply)

For all UniSA Online degrees, you can apply directly.

[unisaonline.edu.au](https://unisaonline.edu.au)

### FEES

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

As per the Australian Government guidelines, the student contribution amounts for 2021 are:

BAND	FIELD OF EDUCATION	STUDENT CONTRIBUTION	STUDENT CONTRIBUTION
		For one year of full-time load (1 EFTSL)	For each subject (0.125 EFTSL)
1	Agriculture, english, mathematics, teaching, clinical psychology <sup>4</sup> , languages and nursing.	\$3,950	\$493
2 (2&2A)	Architecture, IT, other health, allied health, creative arts, engineering, science, environmental studies, professional pathway psychology <sup>4</sup> , professional pathway social work <sup>4</sup> and clinical psychology <sup>4</sup> .	\$7,950	\$993
3	Dentistry, medicine and veterinary science.	\$11,300	\$1,412
4 (4A,4C,4P, 4S&4Y)	law, accounting, administration, economics, commerce, communications, society and culture, professional pathway psychology <sup>4</sup> , professional pathway social work <sup>4</sup> and clinical psychology <sup>4</sup> .	\$14,500	\$1,812

*\*Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying; this is listed on applicable programs in this guide. For programs under 10 year full-time study, fees are listed as the whole program fee (indicative of 2021). For programs over 10 years full-time study, fees are listed based on the cost per annum (indicative of 2021). For more information on fees, including eligibility for Commonwealth-supported places, deferring your student contribution through HECS-HELP or FEE-HELP loans, please visit [unisa.edu.au/fees](https://unisa.edu.au/fees)*

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

<sup>4</sup> Band determined by program/plan.



# University of South Australia

***Australia's University of Enterprise***

***unisa.edu.au***

Telephone: (08) 8302 2376

Make an enquiry: [unisa.edu.au/enquire](https://unisa.edu.au/enquire)



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CRICOS provider number 00121B

For information specific to international students, please visit [unisa.edu.au/international](https://unisa.edu.au/international)



#### ***Acknowledgement of Country***

UnISA respects the Kaurna, Boandik and Bangarla peoples spiritual relationship with their country.

*Artist: Ngupulya Pumani*

Find out more about the University's commitment to reconciliation at [unisa.edu.au/RAP](https://unisa.edu.au/RAP)