

2023 ENGINEERING, CONSTRUCTION AND AVIATION

- Aviation
- Construction Management
- Engineering
- > Advanced Manufacturing
- > Civil
- > Electrical
- > Electronic
- > Mechanical
- > Mechatronic
- > Structural
- Surveying



YOUR FUTURE, GUARANTEED

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





Make us your first preference Achieve the required Year 12 subject grades

That's it. You're automatically in. Learn more and check out UniSA's Guaranteed Entry calculators



#1 IN SA FOR GRADUATE CAREERS

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

> Cindy Oliver, UniSA Civil Engineering Graduate / Principal Civil Engineer, Greenhill.

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







Achieve the guaranteed Selection Rank score

Achieve the guaranteed TAFE/VET qualification





Turn ideas into action and prepare for an unstoppable 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

GET THE PROFESSIONAL EDGE

Graduate career ready by completing the Professional Practice Program as part of your engineering or construction management degree. You'll gain 450+ hours of experience through a range of engagement activities like industry placements, internships, quest lectures, panel discussions, site visits, networking opportunities and events. You'll 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'll receive regular updates about your activities.

CONNECT TO REAL RESEARCH

When you study engineering at UniSA, you'll 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, with additional successes in monitoring natural disaster zones and premature babies while in incubators.

BUILDING YOUR CAREER

UniSA has been teaching construction management in step with industry needs for more than 30 years. Our educators are skilled construction management professionals. They're involved in research projects focusing on things like smart cities and artificial intelligence in construction, bringing their knowledge and experience into the classroom. You'll learn contemporary theory, practice and technology in modern city-based teaching spaces, including building information modelling and immersive virtual reality. Tailor your studies to your career goals to achieve recognition from accrediting bodies such as the Australian Institute of Building, Australian Institute of Building Surveyors, the Royal Institute of Chartered Surveyors (UK) and the Australian Institute of Quantity Surveyors. You can also study construction management through UniSA Online.

A SUCCESSFUL START

MASSERVUNCKER

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

The ICC also runs the Venture Catalyst Space program, which helps the next generation of space entrepreneurs to launch their business ideas. Some of the latest ventures have included using satellites to combat overfishing, designing technology to grow plants in space, to creating humanoid robots that can perform tasks in zero-gravity.

⊘ icc.unisa.edu.au





Princess Ladra, UniSA Mechanical Engineering Graduate / Mechanical Reliability Engineer, Nyrstar



#1 IN SA FOR WORK-READY GRADUATES IN ENGINEERING



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



#1 IN SA FOR GRADUATE EMPLOYABILITY

2021 QILT Employer Satisfaction Survey – Graduate Employability Skills Indicator.

WHAT'S INDUSTRY SAYING?

"Many of my industry colleagues – business owners, directors, senior people in the construction industry – are graduates from UniSA. They then start to employ graduates, and mentor them, and that wonderful cycle continues. For those considering a career in the construction industry, UniSA's construction management degree is an excellent start."

Andrew Marshall | Director | Marshall and Brougham



TAKE TO THE SKIES

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

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.

As humanity looks to expand its presence beyond Earth, the wellbeing of women and men who undertake off-plane activities also remains a top priority. With space missions likely to become longer, developing reliable ways to monitor the health of astronauts is really important. That's why UniSA is working with NASA to develop non-invasive sensors to monitor health through the testing of bodily fluids, such as sweat and saliva, to identify potential issues quickly and easily.



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.



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

UniSA is a major source of graduates to the defence industry, providing students with highly specialised and in demand skills. In fact, the Naval Shipbuilding College (NSC) has endorsed a range of our engineering degrees at both the undergraduate and postgraduate level.

Through our range of degrees, you'll have the opportunity to work on real projects and complete internships so that you graduate with the experience needed by industry.

READY FOR COMBAT

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



MEET YOUR TEACHER



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

Debbie Frisby | Program Director: Construction Management



ONE OF AUSTRALIA'S LEADING UNIVERSITIES FOR **ENGINEERING RESEARCH**



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



#1 IN SA FOR TEACHING OUALITY

2019-20 (Undergraduate and Postgraduate). Public SA-founded universities only.

YOUR 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.









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 2019-20 — Learning Resources Indicator (Undergraduate and Postgraduate). Public SA-founded universities only.

BE UNSTOPPABLE

with Australia's University of Enterprise

PRACTICAL LEARNING

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

TOP RANKING TEACHERS

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

GET CONNECTED WITH OUR INDUSTRY PARTNERS...

WORLD-CLASS FACILITIES

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

POWERFUL PARTNERSHIPS

We collaborate with more than 2,500 companies worldwide to bring our students placement, project, research and work opportunities. Connect with industry during your studies and build your professional networks before you graduate.

GLOBAL OPPORTUNITIES

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

International travel is subject to Australian Government guidelines.

REAL RESEARCH

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

BAE SYSTEMS

LOCKHEED MARTIN

Nestle



Calvary







SAMSUNG



QANTAS GROUP

coles

Helping Hand



ANZ S

DXC.technology

Jam Factory

MinterEllison





UniSA ACCELERATE

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

⊘ unisa.edu.au/accelerate

LEARN A LANGUAGE

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

⊘ unisa.edu.au/languages

GET CAREER READY

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

⊘ unisa.edu.au/careers

MyCareerMatch

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

er vorks

The Hospital Research Foundation Group





#1 IN SA FOR STUDENT SATISFACTION

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



COLLABORATING WITH 2,500+ COMPANIES WORLDWIDE

STUDY ON DEMAND WITH UNISA ONLINE



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

- Associate Degree in Engineering
- Bachelor of Accounting
- Bachelor of Business (Financial Planning)
- Bachelor of Business (Human Resource Management)
- · Bachelor of Business (Management)
- · Bachelor of Business (Marketing)
- Bachelor of Communication
- · Bachelor of Community Health
- Bachelor of Construction Management
- Bachelor of Construction Management (Honours)
- · Bachelor of Criminal Justice
- Bachelor of Data Analytics

- Bachelor of Digital Business Bachelor of Digital Media
- Bachelor of Health Science
- Bachelor of Health Science (Healthy Ageing)
- Bachelor of Health Science (Nutrition and Exercise)
- Bachelor of Information Technology
- Bachelor of Marketing and Communication
- Bachelor of Psychological Science and Sociology
- · Bachelor of Psychology
- · Bachelor of Public Health
- Diploma in Aged Care
- Undergraduate Certificate in Aged Care

Online University of South Australia



SUPPORT SERVICES

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

- Access online academic support seven days a week
- · Connect with a dedicated **Student Adviser**

Access tech support 24/7

🗇 unisaonline.edu.au

Did you know?

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



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



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





LINK YOUR LEARNING





BECOME A DIGITAL BUSINESS LEADER

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



ENGINEER YOUR FUTURE

YOUR ENGINEERING CAREER STARTS HERE



LEARN MORE



unisa.edu.au/engineering

See page 14 for more information

Associate Degree in Engineering

Bachelor of Engineering (Honours)

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 a Bachelor of Engineering (Honours) degree with up to 1.5 years of study credit. The associate degree can also be studied 100% online through UniSA Online, giving you ultimate flexibility.

UNDERGRADUATE DEGREES

Your tertiary learning and career starts with undergraduate study.

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

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

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Published Selection Rank scores are indicative of February 2022 cut-offs.

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



UniSA GUARANTEED ENTRY CALCULATORS

Explore your guaranteed entry options using your Year 12 subject grades, Selection Rank or VET qualification. (?) unisa.edu.au/guaranteed **Associate Degree in Engineering**

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 1 Mathematics or equivalent Assumed knowledge: none UniSA College pathways: Foundation Studies

SATAC code		435021 Program code			LTEN
Year 12 Selectio	n Rank:	Year 12 Grades:		TAFE/VET:	
guaranteed	63.00	guaranteed	B, B, C	guaranteed	CIV
cut-off 2022	67.10			cut-off 2022	CIV

⊘ Part-time study available

Kickstart your studies in engineering. This two-year qualification is an introduction to university-level study and is a pathway to our Bachelor of Engineering (Honours) degrees with specialisations in civil, mechanical, electrical engineering and surveying. Depending on the courses you choose, you may be eligible for credit (up to 1.5 years). This qualification is also a great starting point if you're looking to change careers and enter the engineering industry for the first time. You'll study mathematics, physics and chemistry, as well as first-year courses from our engineering degrees. You'll learn to use industry-standard software such as SolidWorks to produce 3D CAD models, Enovia (Dassault Systems), MATLAB and Multisim. Discover how engineering intersects with essential business management practices and study systems and design thinking techniques. Graduate with the knowledge and skills required in higher-level technical and management roles or pursue a bachelor's degree in engineering.

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

Engineer developer · engineering technical officer · engineering associate · maintenance technician · design drafter

DEGREE STRUCTURE

- INDICATIVE OF CIVIL SPECIALISATION Essential Mathematics 1: Algebra and
- Trigonometry Introduction to Engineering Physics Programming Concepts

Sustainable Engineering Practice Introduction to Engineering Chemistry Engineering Design and Innovation Essential Mathematics 2: Calculus

Electrical and Electronic Systems

7

STUDY ON DEMAND

You can study the Associate Degree in Engineering through UniSA Online giving you ultimate flexibility. It's delivered 100% online and you can choose from four start dates in January, April, June or September. *O* unisaonline.edu.au/asc-deg-engineering

Bachelor of Engineering (Honours) (Flexible Entry)

unisa.edu.au/engineering

0	Mawson Lakes Campus		
	On-campus	(+++- ;;;;;	Intakes: Feb and Jul
\odot	4 years full-time*	Å	Professional Practice Program

Prerequisites: SACE Stage 1 Mathematics or equivalent Assumed knowledge: SACE Stage 2 Physics UniSA College pathways: Foundation Studies or Diploma in Engineering SAIBT pathways: Diploma of Engineering

SATAC code		434242 Program code			LHEF
Year 12 Selection	n Rank:	Year 12 Grades:		TAFE/VET:	
guaranteed	70.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	71.20			cut-off 2022	CIV

🥝 Part-time study available

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

Begin your pathway to a UniSA engineering degree. This flexible program allows you to complete first-year engineering courses while catching up on the required mathematics prerequisites. You'll then transfer into a Bachelor of Engineering (Honours) in a specialisation of your choice and receive up to a full year of study credit. This degree is also the ideal choice if you're unsure which area of engineering you'd like to specialise in. Learn about the fundamentals in engineering practices, mathematics, engineering materials, computer applications, engineering design and innovation, mechanics, and electronic systems. You'll go on to complete an honours degree in civil engineering, electrical engineering, mechanical engineering or surveying. Graduate career ready by completing the Professional Practice Program as part of your degree, engaging in at least 450 hours of professional skill building through placements, internships, guest lectures, industry panels, site visits, networking and events.

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

SPECIALISATIONS

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

Engineering Materials Mathematical Methods for Engineers 1 Introduction to Surveying and Spatial Sciences Engineering and Environmental Geology Mathematical Methods for Engineers 2 Engineering Mechanics

Project Management for Engineers

Fluid and Energy Engineering

DEGREE STRUCTURE

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



LOOKING FOR ALTERNATIVE ENTRY?

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

SATAC code: 426068 unisa.edu.au/college

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 2 Mathematical Methods

Assumed knowledge: SACE Stage 2 Physics

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 Engineering

SATAC code		434481 Program code			LHMI
Year 12 Selectio	n Rank:	Year 12 Grade	S:	TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	78.70			cut-off 2022	CIV

⊘ Part-time study available

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

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 Construction Management (Honours)

FURTHER STUDY

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

DEGREE STRUCTURE





FAST-TRACK TO MASTERS

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

Civil and Infrastructure SATAC code: 434013

Water Resource Management SATAC code: 434014

Go online to see the full list of options.

Ø unisa.edu.au∕fast-track-to-masters

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

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 2 Mathematical Methods. Assumed knowledge: SACE Stage 2 Physics

UniSA College pathways: Foundation Studies or Diploma in Engineering

UniSA pathways: Associate Degree in Engineering or Bachelor of Engineering (Honours) (Elexible Entru)

SAIBT pathways: Diploma of Engineering

SATAC code		434151 Program code			LHMI
Year 12 Selection	n Rank:	Year 12 Grade	S:	TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	74.60			cut-off 2022	CIV

⊘ Part-time study available

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

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 \cdot civil construction manager \cdot civil engineer \cdot geotechnical engineer \cdot project engineer \cdot engineering consultant \cdot project coordinator \cdot capital works manager

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE

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



FAST-TRACK TO MASTERS

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

SATAC code: 434005

Go online to see the full list of options.

Ø unisa.edu.au∕fast-track-to-masters



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

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

Bachelor of Engineering (Honours) (Civil and Structural)

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 2 Mathematical Methods

Assumed knowledge: SACE Stage 2 Physics

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 Engineering

SATAC code		434941	Program o	ode	LHMI
Year 12 Selection	n Rank:	Year 12 Grade	IS:	TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	77.75			cut-off 2022	CIV

⊘ Part-time study available

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

FURTHER STUDY

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

DEGREE STRUCTURE



FAST-TRACK TO MASTERS

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

SATAC code: 434006

Go online to see the full list of options.

🗷 unisa.edu.au/fast-track-to-masters

Bachelor of Engineering (Honours) (Electrical and Electronic)

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 2 Mathematical Methods

Assumed knowledge: SACE Stage 2 Physics

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 Engineering

SATAC code		434951 Program code			LHIF
Year 12 Selectio	n Rank:	Year 12 Grade	Year 12 Grades:		
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	72.40			cut-off 2022	CIV

⊘ Part-time study available

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

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 Project and Program Management

DEGREE STRUCTURE

FIRST YEAR SECOND	Programming Concepts Engineering Materials Mathematical Methods for Engineers 1 Sustainable Engineering Practice	THIRD YEAR	Control Systems Microcontroller Interfacing and Applications Electrical Machines	
	Mathematical Methods for Engineers 2 Engineering Mechanics Electrical and Electronic Systems		Digital Communications 3 x Advanced Elective	
	Engineering Design and Innovation	FO	Industrial Experience	
	Mathematical Methods for Engineers 3 Electrical Circuit Analysis Data Communications Technologies	JRTH YEA	Engineering Capstone Experience A Engineering Honours Project A 2 x Honours Elective	
YEA	Design Management for Engineers	R	Engineering Capstone Experience B	
R	Analogue Devices and Circuits Digital Logic Fundamentals		Engineering Honours Project B 2 x Honours Elective	
	Signals and Systems Project Management for Engineers			



FAST-TRACK TO MASTERS

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

Go online to see the full list of options.

Ø unisa.edu.au∕fast-track-to-masters



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

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

Bachelor of Engineering (Honours) (Electrical and Mechatronic)

unisa.edu.au/engineering

0	Mawson Lakes Campus		
	On-campus	(+++) ())))	Intakes: Feb and Jul
\odot	4 years full-time	ĉ	Professional Practice Program

Prerequisites: SACE Stage 2 Mathematical Methods

Assumed knowledge: SACE Stage 2 Physics

UniSA College pathways: Foundation Studies or Diploma in Engineering UniSA pathways: Associate Degree in Engineering or Bachelor of Engineering

(Honours) (Flexible Entru)

SAIBT pathways: Diploma of Engineering

SATAC code		434451 Program code			LHIF
Year 12 Selection	n Rank:	Year 12 Grade	es:	TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	84.05			cut-off 2022	CIV

⊘ Part-time study available

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

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

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE







FAST-TRACK TO MASTERS

You can package a Bachelor of Engineering select master's qualifications and graduate in just five years.

Go online to see the full list of options.

Ø unisa.edu.au∕fast-track-to-masters



SUPER SPY



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

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

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

Hear more from our unstoppable people



Bachelor of Engineering (Honours) (Mechanical)

unisa.edu.au/engineering

0	Mawson Lakes Campus		
	On-campus	+++ 	Intakes: Feb and Jul
\odot	4 years full-time	ĉ	Professional Practice Program

Prerequisites: SACE Stage 2 Mathematical Methods

Assumed knowledge: SACE Stage 2 Physics

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 Engineering

SATAC code		434321 Program code			LHMR
Year 12 Selection	n Rank:	Year 12 Grade	es:	TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	74.95			cut-off 2022	CIV

⊘ Part-time study available

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

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 Project and Program Management

DEGREE STRUCTURE





FAST-TRACK TO MASTERS

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

Go online to see the full list of options.

Ø unisa.edu.au/fast-track-to-masters

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

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 2 Mathematical Methods Assumed knowledge: SACE Stage 2 Physics UniSA College pathways: Foundation Studies or Diploma in Engineering UniSA pathways: Associate Degree in Engineering or Bachelor of Engineering (Honours) (Flexible Entru)

SAIBT pathways: Diploma of Engineering

SATAC code		434791 Program code			LHMR
Year 12 Selection	n Rank:	: Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	72.80			cut-off 2022	CIV

⊘ Part-time study available

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

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 Project and Program Management

DEGREE STRUCTURE

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



FAST-TRACK TO MASTERS

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

Go online to see the full list of options.

Ø unisa.edu.au∕fast-track-to-masters

Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

unisa.edu.au/engineering

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

Prerequisites: SACE Stage 2 Mathematical Methods

Assumed knowledge: SACE Stage 2 Physics

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 Engineering

SATAC code		434781 Program code		code	LHMR
Year 12 Selection	n Rank:	Year 12 Grades:		TAFE/VET:	
guaranteed	72.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	74.95			cut-off 2022	CIV

⊘ Part-time study available

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

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

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE



Control Systems Computer Aided Engineering Practice Energy Conversion and Management Electromechanics Mechanics of Machines Digital Logic Fundamentals Industrial Automation Systems Design Management for Engineers Industrial Experience Engineering Capstone Experience A Engineering Honours Project A Advanced Control and Signal Processing Machine Learning and Vision Systems Engineering Capstone Experience B Engineering Honours Project B Integrated Industrial Actuation Mobile Autonomous Robotic Systems

You can package a Bachelor of Engineering select master's qualifications and graduate in just five years.

FAST-TRACK TO MASTERS

Ø unisa.edu.au/fast-track-to-masters



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

Anthony Richards | Mechanical Engineering Student



RIGHT FORMULA-1



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

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

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





Hear more from our unstoppable people



Bachelor of Construction Management

unisa.edu.au/construction

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

Prerequisites: none.

Assumed knowledge: none

UniSA College pathways: Foundation Studies or Diploma in Construction

SATAC code		414301 Program code			IBBE
Year 12 Selection	on Rank:	Year 12 Grades	5:	TAFE/VET:	
guaranteed	67.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	67.70			cut-off 2022	CIV

🥝 Part-time study available 🥝 honours available

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

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 scheduler · contract administrator · project coordinator quantity surveyor · building surveyor

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE



Development Regulation Project Appraisal Construction Cost Planning Building Surveying Construction Operations and Safety Advanced Contract Administration Fire Engineering Construction 3



Construction Scheduling

Building Services N

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

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



NATURAL WONDER



Growing up in Kathmandu during a time of increasing urbanisation and natural disasters, UniSA engineering grad, Shahnaaz Ansari, experienced Nepal's drinking water crisis firsthand.

With memories of her mother staying up all night to collect water from a dripping tap to provide for the family, this UNSTOPPABLE force turned her lived experience into a career, becoming Nepal's first female Muslim engineer, specialising in water resource management.

Shahnaaz Ansari

Hydrologist and Consultant Water Resource Engineer Master of Engineering (Water Resources Management)



Hear more from our unstoppable people



Bachelor of Construction Management (Honours)

unisa.edu.au/construction

0	City East Campus		
	On-campus	(+++ ;;;;;	Intakes: Feb and Jul
\odot	4 years full-time	പ്പ	Professional Practice Program

Prereauisites: none

Assumed knowledge: none

UniSA College pathways: Foundation Studies or Diploma in Construction UniSA pathwaus: Bachelor of Construction Management (see page 27) or 100% online Bachelor of Construction Management (see page 29).

SATAC code	414021	Program o	code	IHCN	
Year 12 Selection	n Rank:	Year 12 Grade	S:	TAFE/VET:	
guaranteed	78.00	guaranteed	A, A, B	guaranteed	Dip
cut-off 2022	78.10			cut-off 2022	CIV

⊘ Part-time study available

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

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

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE



LOOKING FOR ALTERNATIVE ENTRY?

Bachelor of Construction Management (Honours). SATAC code: 426072 ⑦ unisa.edu.au/college

FAST-TRACK TO MASTERS



gualifications and graduate in just five years. Go online to see the full list of options.

(2) unisa.edu.au/fast-track-to-masters

Bachelor of Construction Management

unisaonline.edu.au/construction-management

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

Prerequisites: none

Assumed knowledge: none

Time commitment: 10 - 15 hours per week per course

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

Program code XBBE

⊘ Part-time study available

STUDY ON DEMAND

Study a 100% online construction management degree designed specifically for flexible learning. Prepare for a professional career in the construction industry covering the development of low-rise residential, light commercial and high-rise buildings. Study core courses in construction, building surveying, quantity surveying, law, economics, construction management, and communication. Benefit from a degree developed in collaboration with industry bodies such as the Australian Institute of Building, Australian Institute of Building Surveyors, Australian Institute of Quantity Surveyors, and the Royal Institution of Chartered Surveyors. Access online support services seven days a week, view learning resources 24/7 and log in to the interactive online environment anywhere, any time, and on any device. Benefit from flexible study with no need to attend lectures or visit campus - all courses and assessments are delivered online. Scholarships and grants are also available for eligible students.

CAREERS

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

CREDIT CHECK

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

HOW TO APPLY

- 1. Check your eligibility at unisaonline.edu.au/eligibility
- 2. Gather your relevant documents
- 3. Complete your application and send through your documents
- Applu directlu at unisaonline.edu.au or call 1800 531 962

DEGREE STRUCTURE

- Critical Approaches to Online Learning OR Elective
- Introduction to Construction

Management Construction Communication

Construction 1 Construction Materials Introduction to Construction Business

Managemen Structures 1

- Construction 2
- Contract Administration Structures 2
- Building Estimating
- Building Services
- Construction Environmental Science

Safety ation

_	
IRC	Construction 3
Ě	Project Appraisal
AR	Construction Cost Planning
	Construction Operations and
	Fire Technology
	Building Surveying
	Advanced Contract Administr





Bachelor of Construction Management (Honours)

unisaonline.edu.au/construction-management-honours

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

Prereauisites: none

Assumed knowledge: none

Time commitment: 10 – 15 hours per week per course

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

Program code XHCM

⊘ Part-time study available

STUDY ON DEMAND

Study a 100% online construction management honours degree designed specifically for flexible learning. Study a four-year professional degree that will prepare you for future leadership and managerial roles in the building and construction industry. Develop the technical and practical skills to manage large-scale commercial, infrastructure and residential projects. Choose to specialise in one of three high-growth areas in construction project management, guantity surveying or building surveying in your final year. Graduate career-ready by completing the Professional Practice Program as part of your degree. Gain at least 450 hours of skills and competencies through a range of engagement activities. Study a degree accredited by the Australian Institute of Building Surveyors. Access online support services seven days a week, view learning resources 24/7 and log in to the interactive online environment anywhere, any time, and on any device. Benefit from flexible study with no need to attend lectures or visit campus - all courses and assessments are 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 \cdot quantity surveyor \cdot building surveyor \cdot site supervisor · estimator · construction scheduler · contract administrator

CREDIT CHECK

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

HOW TO APPLY

- 1. Check your eligibility at unisaonline.edu.au/eligibility
- 2. Gather your relevant documents
- 3. Complete your application and send through your documents
- Apply directly at unisaonline.edu.au or call 1800 531 962

DEGREE STRUCTURE

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

0	Mawson Lakes Campus		
	On-campus	[+++] []]]]	Intakes: Feb and Jul
\odot	3 years full-time	ĉ	Real-world projects

Prerequisites: none.

Assumed knowledge: none

UniSA College pathways: Foundation Studies

SATAC code		434141 Program code			LBAN
Year 12 Selection Rank: Year 12 Grades:		TAFE/VET:			
guaranteed	69.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	69.20			cut-off 2022	CIV

⊘ Part-time study available

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'll also develop strong communication and leadership skills. Access industry-standard technologies on campus, including a Boeing 737 Next Generation flight simulator. Practical flight training is not directly delivered through this program. If your goal is to become a commercial airline pilot, you'll need to apply to study the Graduate Diploma in Aviation.

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 36.

CAREERS

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

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

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

Commercial pilot \cdot corporate pilot \cdot firefighting pilot \cdot medical pilot \cdot defence force pilot \cdot flight instructor

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE



Aviat

Flight Training Theory 1

- Communication and Research Methods
- Aviation Physics 2
- Elective
- Commercial Pilot Theory
- Airlines Operation Management



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

Joshua Chin | Aviation Graduate / International Pilot

Bachelor of Aviation (Management)

unisa.edu.au/aviation

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

Prerequisites: none. Assumed knowledge: none

UniSA College pathways: Foundation Studies

SATAC code 434131 Program c			code	LBAN	
Year 12 Selection	n Rank:	Year 12 Grades	5:	TAFE/VET:	
guaranteed	66.00	guaranteed	B, B, B	guaranteed	Dip
cut-off 2022	66.50			cut-off 2022	CIV

${\it O}$ Part-time study available

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

CAREERS

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

YOU MIGHT ALSO LIKE

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

FURTHER STUDY

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

DEGREE STRUCTURE

FIRST YEAR	Professional and Technical Communication Introduction to Aviation Aviation Law	THIRD YEAR	Risk and Safety Management Systems Airport Management Elective 1 Communications and Research Methods
	Aviation Practice 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
SECOND YEA	Management and Organisation Principles of Economics Aviation Marketing Human Factors 2		
R	Foundations of Airline Finance Aviation Economics Airline Operations Management University Elective		

 How and Pilot Theory 1

 Risk and Safety Management Systems

 Elective

 Advanced Pilot Theory 2

 Large Aircraft Flight Operations

 Elective

 Aviation Project

Bachelor of Applied Science (Honours) (Aviation)



0	Mawson Lakes Campus			
	On-campus/online		Intakes: Feb and July	
\odot	1 year full-time	ĉ	Real-world projects	
SATAC code 4BH021		Prog	ram code LHAS	;

⊘ Part-time study available

*see page 40 for more information

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

CAREERS

Graduates can pursue careers in:

Defence \cdot human factors \cdot safety management \cdot airline and airport operations \cdot academia

Entry requirements

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

FURTHER STUDY

- Masters by Research
- Doctor of Philosophy (PhD)

DEGREE STRUCTURE

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

POSTGRADUATE AND RESEARCH DEGREES

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

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

Explore our full range of postgraduate degrees unisa.edu.au/study

Learn more about our research degrees *unisa.edu.au/researchdegrees*

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Master of Engineering

Degrees:

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

unisa.edu.au/engineering

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

	Civil and Infrastructure		Water Ma	^r Resources anagement
SATAC code	2 years	4CM156	2 years	4CM162
	1.5 years	4CM155	1.5 years	4CM161
	1 year	4CM154	1 year	4CM160
Program code		LMCL		LMCL

⊘ Part-time study available *see page 40 for more on fees

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

CAREERS

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

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

Entry requirements

- Bachelor degree or equivalent qualification in civil engineering, or a related discipline, from a recognised higher education institution. A related discipline may be other four-year engineering or science degrees.
- Applicants who do not meet the standard entry requirements will be assessed on a case-by-case basis by the University.
- Applicants who have previously completed a Bachelor of Engineering (Honours) degree accredited by the Washington Accord may be eligible to complete the program in 15 years of full-time study or 1 year of full-time study, or part-time equivalents.

YOU MIGHT ALSO LIKE

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

DEGREE STRUCTURE

E FIRST YEAR

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

Master of Engineering

Degrees:

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

unisa.edu.au/engineering

0	Mawson Lakes Campus		Intakes: Feb and Jul
	On-campus	$\stackrel{\circ}{\sim}$	Professional Practice Program
\odot	2 years full-time	\$	Commonwealth supported*

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

⊘ Part-time study available *see page 40 for more on fees

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

CAREERS

Depending on your chosen degree, your career options can include: Electrical engineer · telecommunications engineer · operations manager · network planning engineer · project manager · renewable energy engineer · engineering consultant · researcher

Entry requirements

Bachelor degree or equivalent qualification in electrical engineering, or a related discipline, from a recognised higher education institution. A related discipline may be other four-year engineering or science degrees.

YOU MIGHT ALSO LIKE

- Master of Engineering (Engineering Management)
- \cdot $\,$ Master of Project and Program Management $\,$

DEGREE STRUCTURE

INDICATIVE OF ELECTRICAL POWER

FIDCT VE AD	Renewable Energy Systems Power System Fundamentals Research Data Analysis 5 x Electives Group 1
SECOND VE AD	Engineering Masters Industrial Experience 2 x Electives Group 2 Renewable and Distributed Power Generation Advanced Electrical Machines Advanced Power System Modelling and Analysis Masters Research Theory and Practice Masters Research Project



Master of Engineering (Engineering Management)

Nested with:

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

unisa.edu.au/engineering

0	Mawson Lakes Campus		Intakes: Feb and Jul	
	On-campus	ĉ	Real-world projects	
\odot	2 years full-time		Commonwealth supported*	
SATAC code 4CM122		Progr	am code LMEB	

⊘ Part-time study available *see page 40 for more on fees

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 \cdot engineering manager \cdot quality assurance manager \cdot business development manager \cdot department manager \cdot bid manager \cdot capital works manager

Entry requirements

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

DEGREE STRUCTURE

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



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

Rebecca Lawson-Cooke | Project Management Graduate / Director – Project Management and State Lead SA, Turner $\ensuremath{\mathcal{B}}$ Townsend



LEGO MASTER



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

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

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

> Hear more from our unstoppable people



Master of Systems Engineering

Nested with:

• Graduate Diploma in Systems Engineering

unisa.edu.au/engineering

0	Mawson Lakes Campus		Intakes: Feb and Jul	
	On-campus	Å	Real-world projects	
\odot	3 years part-time	\$	A\$26,500 pa* indicative 2022	
SATAC code 4CM222 Program code LMDI		am code LMDI		

Part-time study only *see page 40 for more on fees

Develop high level engineering skills relevant to Australia's national defence interest. Gain an understanding of the full systems engineering life cycle, from conceptual design through to delivery into operations. Large-scale projects in defence, telecommunication and rail industries are inherently complex. They draw on numerous disciplines. These include hardware, software, power electrical, electronic, mechanical, hydraulic and engineering management. The integration of these disciplines in a systematic way requires coordination of diverse resources over an extended period. Draw on your engineering knowledge to develop skills in systems engineering, tailored to these industries, as well as other sectors such as mining and healthcare. Focus on a systems engineering management and integrated logistics support. You'll also have the opportunity to study electives of your choice to broaden your knowledge and skills in specific areas of interest.

CAREERS

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

Entry requirements

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

YOU MIGHT ALSO LIKE

· Master of Engineering (Engineering Management)

DEGREE STRUCTURE

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

This program is studied primarily through intensive on-campus delivery, but may also include some online delivery options, and can only be completed with a part-time study load.

Master of Project and Program Management



Degrees:

- Master of Project and Program Management
- Master of Project and Program 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

0	City East Campus		Intakes: Feb and Jul	
	On-campus/online	ĉ	Real-world projects	
\odot	1.5 years full-time	\$	Commonwealth supported*	
General Contract Manageme		l Contract Management		

SATAC code	4CM209	4CM212
Program code	IMGM	IMGM

- 🥝 Part-time study available
- *see page 40 for more on fees

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

CAREERS

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

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

Entry requirements

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

DEGREE STRUCTURE

IND MAI	ICATIVE OF PROGRAM AND PROJECT NAGEMENT	SECO	Project Management Research Thesis Select two of the following courses:
FIRST YEAR	Principles of Project Management Project Risk Management Procurement and Contract Management Project Covernance and Ethics	ND YEAR	Managing Complexity in Projects Sustainability in Project Management Project Management in Professional Practice
	Project Control Methods Project Leadership and Teams Portfolio and Program Management Masters Research Theory and Practice	Stude coml Stude lectu	Research Data Analysis ents may be required to undertake a bination of on-campus or online study. ents may be required to attend on-campus rres, tutorials and practicals.

Graduate Diploma in Building Surveying

Nested with:

 $\cdot \;$ Graduate Certificate in Building Surveying

unisa.edu.au/surveying

\bigcirc	City East Campus			
	On-campus/online		Intakes: Feb and Jul	
\odot	1 year full-time (\$		Commonwealth supported*	
SATAC code 4GD097 Program code IGBE		am code IGBE		

⊘ Part-time study available *see page 40 for more on fees

Develop the 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 degree for applicants who have a minimum six years of relevant industry experience.

CAREERS

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

Entry requirements

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

DEGREE STRUCTURE

- The Constructed Environment
- ST Introduction to Construction Law
- Building Structures and Materials Building Surveying

Fire Technology Development Regulation Asset Management and Building

Pathology Advanced Building Surveying

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

Graduate Diploma in Aviation

unisa.edu.au/aviation

0	Mawson Lakes Campus		Intakes: n/a^	
	On-campus	Å	Flight training	
\odot	2 years part-time	\$	A\$107,000 pa* indicative 2022	
SATAC code n/a Program code LGAN		am code LGAN		

⊘ Part-time study only *see page 40 for more on fees

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

Commence your practical flight training through this program, which is studied concurrently with the Bachelor of Aviation (Pilot). Learn to fly under the supervision of 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 $\,\cdot\,$ corporate pilot $\,\cdot\,$ firefighting pilot $\,\cdot\,$ medical pilot $\,\cdot\,$ defence force pilot $\,\cdot\,$ flight instructor

Entry requirements

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

Entry criteria

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

Additional criteria

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

Application process

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

Fees

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

FURTHER STUDY

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

DEGREE STRUCTURE

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

Graduate Certificate in Space Studies

unisa.edu.au/engineering

0	Mawson Lakes Campus			
	On-campus/online		Intakes: Feb and Jul	
\odot	0.5 years full-time	\$	A\$15,000* indicative 2022	
SATAC code n/a Program code I CSD				

*see page 40 for more on fees

Explore your curiosity and complete a postgraduate qualification in space studies. Complete an individual space-themed research project, working closely with space industry experts. Examine an area of interest, from space technology, applications and services, space science, exploration and human spaceflight, through to space economics, regulation and management, and more. Kickstart your studies with an intensive threeday 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 \cdot researcher \cdot policy adviser \cdot project manager \cdot scientist \cdot engineer

Entry requirements

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

Apply directly at unisa.edu.au/applyonline

SHSSP

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

DEGREE STRUCTURE

ISU Southern Hemisphere Summer Space Program Elective Course Space Studies Project

Students may complete their studies online or on-campus.

Masters by Research Doctor of Philosophy (PhD)

unisa.edu.au/researchdegrees

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

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

TOPICS OF RESEARCH

- Applied Physics
- Bioinformatics
- Biomaterials Engineering and Nanomedicine
- · Civil Engineering
- Computer and Information Science
- Construction Management
- Electrical Engineering
- Energy and Advanced Manufacturing
- Environmental Science

- Environmental Science and Engineering
- Geographic Information Science
- Information and Communication
 Technology
- Mathematics
- Mechanical Engineering
- Minerals and Resources
- Project Management
- Statistics
- Systems Engineering

Entry requirements

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

research.degrees@unisa.edu.au

Masters by Research

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

Doctor of Philosophy (PhD)

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

Alternative entry

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



EXPLORE OUR RESEARCH PROJECTS

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

Inisa.edu.au/research-projects

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WHAT UNI MIGHT LOOK LIKE ...

YOUR STUDENT EXPERIENCE

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

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

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

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

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

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

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

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

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

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





ONLINE

Virtual Open Day Tuesday 9 August

ON CAMPUS

Step on campus throughout August

Mount Cambier: Sunday 7 August City West and City East: Sunday 14 August Mawson Lakes: Sunday 21 August Magill: Wednesday 24 August Whyalla: Sunday 28 August





Register now unisa.edu.au/opendays

Events and webinars

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

Campus tours

Book a guided campus tour to see our state-of-the-art facilities and chat to us about your study and career options.

unisa.edu.au/infosessions

STUDY AT UniSA – **THE BASICS**

APPLYING WITH YEAR 12 RESULTS

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

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

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

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

ADJUSTMENT FACTORS

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

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

Ø unisa.edu.au/adjustmentfactors

GUARANTEED ENTRY

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

Year 12 Grades Guaranteed Entry -

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

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

Selection Rank Guaranteed Entry -

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

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

TAFE/VET Guaranteed Entry -

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



ALTERNATIVE PATHWAYS

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

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

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

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

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

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

SCHOLARSHIPS

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

HOW TO APPLY

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

⑦ unisa.edu.au/apply

For all UniSA Online degrees, you can apply directly.

闭 unisaonline.edu.au

FEES

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

As per the Australian Government guidelines, the student contribution amounts for 2022 are:

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

*Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying; this is listed on applicable programs in this guide. For programs under 10 year full-time study, fees are listed as the whole program fee (indicative of 2022). For programs over 10 years full-time study, fees are listed based on the cost per annum (indicative of 2022). For more information on fees, including eligibility for Commonwealth-supported places, deferring your student contribution through HECS-HELP or FEE-HELP loans, please visit unisa.edu.au/fees

This table should be used as a guide only. Total costs can vary depending on the courses you study and the band they fall into. ^ Band determined by program/plan.





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



Acknowledgement of Country

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

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