YOUR CAREER STARTS AT UniSA

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

As equipment and machinery becomes more automated, there will be a 17% increase in the demand for careers in mechatronic engineering and robotics by 2022.

Turn ideas into action and inspire the next wave of engineering and innovation. Learn to build new foundations and create smarter solutions by exploring diverse areas such as robotics, contemporary manufacturing systems, renewable energy sources, infrastructure, automation, electronics, and more. Get a competitive advantage by developing professional leadership skills in advanced project management, which can be applied to a wide variety of industries and roles.

unisa.edu.au/study

TOP 10 IN AUSTRALIA FOR ENGINEERING AND TECHNOLOGY
2019 THE Subject Rankings

5 STAR RATING FOR SKILLS DEVELOPMENT IN ENGINEERING
2019 Good Universities Guide

SA’s No.1 UNIVERSITY FOR ENGINEERING RESEARCH
The only university in SA to have all its assessed engineering research rated well-above world standard. 2015 Excellence in Research for Australia (ERA).

UNDERGRADUATE
Engineering (Flexible Entry) / 12
Civil / 13
Civil and Structural / 14
Civil and Construction Management / 14
Electrical and Electronic / 16
Electrical and Mechatronic / 17
Mechanical / 17
Mechanical and Advanced Manufacturing / 18
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POSTGRADUATE
Engineering / 20
Engineering Management / 21
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Space Studies / 22

RESEARCH
Masters by Research / 23
Doctor of Philosophy (PhD) / 23
The best defence

The defence industry in Australia is big business, with the federal government committing over $200 billion to modernise the nation’s defence capability. Investing in a growing workforce is also a key focus, with Australian workers needed in traditional roles along with intelligence, surveillance, cybersecurity and electronic warfare, project management and more.

South Australia’s defence footprint will also receive a boost, with a partnership between UniSA and Saab Australia set to deliver job-ready graduates for future defence projects.

The Saab Australia – UniSA Defence Technologies Institute, co-located at Saab’s headquarters in Mawson Lakes, will train students in the latest technological advancements to help deliver smart solutions. UniSA and Saab will co-create teaching materials, covering in-demand areas such as augmented reality, autonomous systems, cybersecurity and complex systems engineering. Students will have the opportunity to work on real projects and complete fully-immersed internships, gaining the experience needed for major projects such as the Future Submarines and Future Frigates programs.

REAL-WORLD EXPERIENCE

Take part in industry-based, work integrated learning that will prepare you for your future career in engineering. See how engineering principles are applied to real-life projects and environments, and build your professional networks while you study. Connect with industry in our new $2 million Industry 4.0 Testlab facility, which supports the rapidly growing manufacturing, defence and space industries. From individual projects as part of your coursework, to working with local and international companies to solve real-world challenges, you can collaborate with small to medium enterprises, defence contractors, primes, government agencies, and our world leading research groups, and gain valuable experience in innovation and the workforce of tomorrow.

DESIGNING THE FUTURE

UniSA engineering students have access to state-of-the-art software through a powerful partnership with global 3D design software company, Dassault Systems. The 3DExperience Platform allows you to innovate and experiment within a virtual universe. It combines 3D modelling and simulation, engineering design, and information intelligence to develop solutions for defence, shipbuilding, mining and other industries.

THE NEW INDUSTRIAL REVOLUTION

The rise of automation, data analytics, machine learning and artificial intelligence has been dubbed ‘Industry 4.0’. Thanks to a $450 million grant from technology giant Siemens, this new industrial revolution has arrived at UniSA. Engineering students can access advanced software that allows you to track the entire lifecycle of a product from design to disposal. The same software is being used around the globe to develop sophisticated products and systems across industries from shipbuilding to space, by world-leading companies such as SpaceX and Maserati, and major projects like the Mars Rover.
2020: A SPACE ODYSSEY

With the new 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. We have partnered with the International Space University to host the annual Southern Hemisphere Space Studies Program, bringing participants from around the world to Mawson Lakes Campus for inspiring workshops with astronomy experts, scientists and cutting-edge researchers. This unique learning program is open to students who share a curiosity for space, and explores key areas of space-related knowledge including exploration, spaceflight, systems engineering, policy and law.

GO GLOBAL WITH UCL

In a world that is being transformed by the effects of globalisation, gaining an international perspective has never been more important. We partner with institutions like University College London (UCL) to offer dual-hemisphere opportunities, including the Master of Science (Data Science) and Master of Science (Sustainable Energy Systems). You will study in both Adelaide and London and graduate with a joint qualification from both universities. Learn from a curriculum deeply informed by industry, and examine the realities and challenges of modern enterprise and global best practice.

A SUCCESSFUL START

Accelerate your ideas and launch a startup business with in-house support from UniSA’s global experts. Venture Catalyst is an incubator program led by UniSA’s Innovation & Collaboration Centre (ICC), providing support to entrepreneurs to develop their business ideas from concept to reality. The program offers workshops, one-on-one mentoring, office space in the co-working environment at ICC, and opportunities to travel overseas. You’ll be assisted by industry experts as you take your idea from generation through to growth and expansion.

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

STRONG FLOOR / Mawson Lakes Campus is home to the largest strong floor in Australia located in a purpose-built facility for civil engineering students to test the strain and deflection of structures.

**Become a global citizen**

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

unisa.edu.au/languages

**Experience student life**

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

unisa.edu.au/studentexperience

**Get career ready**

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

unisa.edu.au/careers

“**So many of the innovations we encounter in everyday life come about through engineering. Our degrees give students opportunities to collaborate and learn by doing. By using their knowledge in a real-life context, they end up with the practical skills required to launch their career.”**

Liz Smith | Senior Lecturer and Program Director in Civil Engineering

**No.1 YOUNG UNIVERSITY IN AUSTRALIA FOR TEACHING QUALITY**

2018 THE Young University Rankings SA-founded universities only
PRACTICAL LEARNING
UniSA offers over 200 world-class degrees across a wide range of discipline areas. You will learn in a highly practical environment. Take the opportunity to complete an internship or placement during your studies, learning from experts in a real-world setting. Build your networks and graduate career-ready with the skills required of tomorrow’s professionals.

TOP RANKING TEACHERS
Make your study experience relevant and learn from highly qualified academics and industry professionals. In fact, UniSA is Australia’s best young university for teaching quality (2018 THE Young University Rankings).

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

GET CONNECTED
with Australia’s University of Enterprise

No.1 IN SA FOR EMPLOYER SATISFACTION
QLT 2018 Employer Satisfaction Survey, Overall Satisfaction Indicator – National Report

KPMG  Nestlé  ASC
Jam Factory  SAAB  Helping Hand
UNITING COMMUNITIES  matchbox  ANZ
RISING SUN PICTURES
PRACTICAL LEARNING
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POWERFUL PARTNERSHIPS
We collaborate with over 2,500 companies worldwide to bring our students placement, project, research and work opportunities. Connect with industry professionals during your studies and benefit from curriculum informed by the latest industry practices.

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

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

Steve Worlock | Director | BAE Systems Australia
GETTING TO CAMPUS

Jump on the tram

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

adelaidemetro.com.au
Campus Connector

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

unisa.edu.au/campusconnector
MAP YOUR STUDY JOURNEY

FLEXIBLE ENTRY
Want to study engineering but not sure what specialisation to choose?
Study our one-year Bachelor of Engineering (Honours) (Flexible Entry) and keep your options open. You will receive full credit for successfully completed courses and will transfer into your chosen specialisation in second year.

FIRST YEAR
Study common engineering courses

SECOND YEAR
Transfer into your chosen specialisation in either civil, electrical or mechanical engineering

THIRD YEAR

FOURTH YEAR
Graduate with one of our eight Bachelor of Engineering (Honours) degrees

CIVIL ENGINEERING

STUDY
Bachelor of Engineering (Honours) (Civil)

CHOOSE
A major
Study core courses and choose one of the following majors:
- Business Innovation
- Construction Management
- Structural Engineering
- Surveying

A flexible study plan
Study core courses and choose eight electives that suit your interests.

We also offer Bachelor of Engineering (Honours) (Civil and Structural) and Bachelor of Engineering (Honours) (Civil and Construction Management)

UniSA MATHS SHORT COURSE
Want to study an engineering degree but didn’t complete SACE Stage 2 Mathematical Methods? We offer a unique short course for students to complete the required prerequisite before starting their degree. You will learn alongside highly qualified tutors in small groups over the summer period before Semester 1 kicks off.
For more information, visit
unisa.edu.au/maths-short-course

ASSOCIATE DEGREE IN ENGINEERING
Didn’t get the score you need to study engineering? Study a two-year associate degree at UniSA and transfer into your chosen Bachelor of Engineering (Honours) degree with credit for successfully completed courses.
See page 12 for more information.
ELECTRICAL AND ELECTRONIC ENGINEERING

**STUDY**

Bachelor of Engineering (Honours) (Electrical and Electronic)

**CHOOSE**

A major

Study core courses and choose one of the following majors:
- Computer Engineering
- Power Engineering
- Telecommunications

A flexible study plan

Study core courses, four electives and choose a minor in either Optical Engineering or Business Innovation.

We also offer Bachelor of Engineering (Honours) (Electrical and Mechatronic)

MECHANICAL ENGINEERING

**STUDY**

Bachelor of Engineering (Honours) (Mechanical)

**CHOOSE**

A major

Study core courses and choose one of the following majors:
- Energy Systems
- Engineering Management
- Mechanical Design

A flexible study plan

Study core courses, four electives and a minor in Business Innovation.

We also offer Bachelor of Engineering (Honours) (Mechanical and Mechatronic) and Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)
UNDERGRADUATE DEGREES

Your tertiary learning and career starts with undergraduate study.

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

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

Note: Published Selection Rank scores are indicative of February 2019 cut-offs.

ENGINEERING PATHWAYS

**Associate Degree in Engineering**

unisa.edu.au/engineering

- **Mawson Lakes Campus**
  - Selection Rank: 60.55
  - Guaranteed Entry: 65.00
- **On-campus**
- **2 years full-time**
- **Intakes: Feb, Jul**

**PROGRAM CODE: LTFN | SATAC CODE: 435021**

UnisA College pathways: Foundation Studies or Diploma in Engineering. The diploma can also be used as a pathway program into a Bachelor of Engineering (Honours) degree.

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

**Assumed Knowledge:** none

Transition into a Bachelor of Engineering (Honours) degree to become a fully-qualified engineer or start a professional career in civil, mechanical, mechatronic or electrical engineering. Graduate with credit (up to 15 years) for successfully completed courses that you can use towards your honours degree. Study introductory courses in engineering, mathematics, physics and chemistry in your first year and then complete core courses in your chosen engineering specialisation in second year. Gain valuable practical experience by participating in the Warman Design and Build Competition, applying hands-on skills and knowledge to a complex engineering program. Benefit from flexible learning options including on-campus, some online or blended study. This degree can also be studied completely online via Open Universities Australia (OUA) and can be used as a pathway into the Bachelor of Engineering (Honours) (Civil) or (Mechanical).

**CAREERS**

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

**ENGINEERING SPECIALISATIONS**

- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Civil and Structural)
- Bachelor of Engineering (Honours) (Civil and Construction Management)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Electrical and Mechatronic)
- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)
- Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

**DEGREE STRUCTURE**

**INDICATIVE OF CIVIL ENGINEERING STREAM**

**FIRST YEAR**

- Essential Mathematics 1: Algebra and Trigonometry
- Introduction to Engineering Physics
- Programming Fundamentals for Engineers
- Sustainable Engineering Practice

- Introduction to Engineering Chemistry
- Engineering Design and Innovation
- Essential Mathematics 2: Calculus
- Electrical and Electronic Systems

**SECOND YEAR**

- Engineering Materials
- Mathematical Methods for Engineers 1
- Introduction to Surveying and Spatial Sciences
- Professional Engineering Practice E

- Mathematical Methods for Engineers 2
- Engineering Mechanics
- Road Design and Traffic Management
- Water Chemistry

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

unisa.edu.au/engineering

- **Mawson Lakes Campus**
  - Selection Rank: 71.55
  - Guaranteed Entry: 70.00
- **On-campus**
- **4 years full-time**
- **Intakes: Feb, Jul**

**PROGRAM CODE: LHEF | SATAC CODE: 434242**

Pathways: Associate Degree in Engineering (UnisA), Foundation Studies or Diploma in Engineering (UnisA College), or Diploma in Technology (SAIBT)

**Prerequisites:** SACE Stage 2 Math Methods

**Assumed Knowledge:** SACE Stage 2 Physics

Study a flexible one-year program that introduces key engineering concepts and then transfer directly into a Bachelor of Engineering (Honours) degree with a specialisation of your choice. Complete common first year courses and receive a full year of study credit. Learn about the fundamentals in engineering practices, mathematics, engineering materials, computer applications, engineering design and innovation, mechanics, and electronic systems. Go on to graduate with honours in an additional three years of study with a specialisation focusing on civil, electrical or mechanical engineering. Gain practical experience through real engineering projects, a 12-week industry placement or overseas study exchange. Benefit from a degree accredited by Engineers Australia and be eligible to apply for graduate membership. You will also be eligible for membership with comparable international institutions.

**CAREERS**

Depending on your chosen specialisation, you can go on to a career in the following roles.

- Civil engineer / construction manager / project engineer / civil project manager / structural engineer / electrical engineer / commissioning engineer / mechanical engineer / mechatronics engineer / industrial engineer / automation engineer / surveyor

**ENGINEERING SPECIALISATIONS**

- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Civil and Structural)
- Bachelor of Engineering (Honours) (Civil and Construction Management)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Electrical and Mechatronic)
- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)
- Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

**FURTHER STUDY**

- Master of Engineering — various specialisations
- Master of Engineering (Engineering Management)
- Master of Applied Project Management

**DEGREE STRUCTURE**

**FIRST YEAR**

- Programming Fundamentals for Engineers
- Engineering Materials
- Mathematical Methods for Engineers 1
- Sustainable Engineering Practice

- Mathematics
- Programming Fundamentals for Engineers
- Physics

- Engineering Mechanics
- Road Design and Traffic Management
- Water Chemistry

- Electrical and Electronic Systems
- Professional Engineering Practice E

- Essential Mathematics 1: Algebra and Trigonometry
- Essential Mathematics 2: Calculus
- Electrical and Electronic Systems

- Introduction to Surveying and Spatial Sciences
- Professional Engineering Practice E

- Mathematical Methods for Engineers 1
- Mathematical Methods for Engineers 2
- Engineering Mechanics
- Road Design and Traffic Management
- Water Chemistry

- Essential Mathematics 2: Calculus
- Electrical and Electronic Systems

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- Water Chemistry

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- Electrical and Electronic Systems

- Introduction to Surveying and Spatial Sciences
- Professional Engineering Practice E

- Mathematical Methods for Engineers 1
- Mathematical Methods for Engineers 2
- Engineering Mechanics
- Road Design and Traffic Management
- Water Chemistry
CIVIL ENGINEERING

Bachelor of Engineering (Honours) (Civil)
unisa.edu.au/engineering

Mawson Lakes Campus
On-campus
4 years full-time
Intakes: Feb, Jul

Selection Rank ..........75.80
Guaranteed Entry:
Selection Rank.........75.00
Selection Rank (VET)........Dip
√ part-time study available

PROGRAM CODE: LHMI | SATAC CODE: 434481

Pathways: Associate Degree in Engineering (UniSA), Foundation Studies or Diploma in Engineering (UniSA College), or Diploma in Technology (SAIBT).
Prerequisites: SACE Stage 2 Math Methods
Assumed Knowledge: SACE Stage 2 Physics

Learn to design and maintain critical infrastructure such as bridges, buildings, airports, roads, railways and water systems. Focus on core courses in road design, geospatial science, soil mechanics, hydraulics and hydrology, geotechnical engineering, and reinforced concrete design. Tailor your studies by choosing a major study area in either Surveying, Business Innovation, Structural Engineering, or Construction Management. Access industry-standard facilities on campus including the largest strong floor in Australia, along with high-tech testing and computer modelling equipment. Gain practical experience through a 12-week industry placement and by completing a major industry-related project that models professional practice. You will also have the opportunity to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design. Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide. Graduate with a degree accredited by Engineers Australia and be eligible to apply for membership. You will also be eligible for membership with comparable international institutions.

CAREERS
Civil engineer / geotechnical engineer / water resources engineer / environmental engineer / engineering consultant / project engineer / transport engineer / structural engineer

YOU MIGHT ALSO LIKE
• Bachelor of Engineering (Honours) (Civil and Structural)
• Bachelor of Engineering (Honours) (Civil and Construction Management)
• Bachelor of Construction Management (Honours)
• Bachelor of Construction Management

“Civil engineering gives rise to so many different careers. All industry work experience is helpful in understanding and gaining knowledge for the future, so when an opportunity arises, you should always consider it – even if it’s not what you were expecting. You never know where it may take you.”

Rebecca Pierotti, civil engineering graduate
Bachelor of Engineering (Honours) (Civil and Structural)

unisa.edu.au/engineering

Program Code: LHMI | SATAC Code: 434481

Pathways: Associate Degree in Engineering (UniSA); Foundation Studies or Diploma in Engineering (UniSA College); or Diploma in Technology (SAIBT).

Prerequisites: SACE Stage 2 Math Methods

Assumed Knowledge: SACE Stage 2 Physics

Studying Civil and Construction Management at UniSA equips you with a strong foundation of engineering knowledge 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 structural wind tunnel in Australia, along with high-tech testing and computer modelling equipment. Gain practical experience through a 12-week industry placement and by completing a major industry-related project that models professional practice. You will also have the opportunity to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design.

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Careers

Structural engineer / civil engineer / structural design engineer / civil designer / construction manager / environmental engineer / transport engineer / geotechnical engineer

You might also like

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

Further Study

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

Degree Structure

First Year

- Computing for Engineers
- Engineering Materials
- Mathematical Methods for Engineers 1
- Sustainable Engineering Practice
- Mathematical Methods for Engineers 2
- Engineering Mechanics
- Electrical and Electronic Systems
- Engineering Design and Innovation

Second Year

- Engineering Modelling
- Mechanics of Materials
- 2 x Major
- Introduction to Water Engineering
- Road Design and Traffic Management
- Professional Engineering Design Practice
- Major

Third Year

- Business Management for Engineers
- Soil Mechanics
- Steel and Timber Design
- Hydraulics and Hydrology
- Water Resources Systems Design
- Geotechnical Engineering

Second Year

- Reinforced Concrete Design
- Major

Fourth Year

- Industrial Experience N
- Engineering Capstone Experience A
- Engineering Honours Project A
- 2 x Major
- Engineering Capstone Experience B
- Engineering Honours Project B
- 2 x Major

Study South Australia’s only 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 two years, with specialist construction management courses such as Construction Scheduling and Advanced Construction Management starting in third year. Access industry-standard facilities on campus including the largest structural wind tunnel in Australia, along with high-tech testing and computer modelling equipment. Gain practical experience through a 12-week industry placement and by completing a major industry-related project that models professional practice. You will also have the opportunity to complete projects that tackle engineering challenges for real clients, from the tender phase through to feasibility, concept development and detailed design.

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Program Code: LHMI | SATAC Code: 434481

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a degree accredited by Engineers Australia and be eligible to apply for membership. You will also be eligible for membership with comparable international institutions.

CAREERS
Civil project manager / civil construction manager / civil engineer / geotechnical engineer / project engineer / engineering consultant / capital works manager

YOU MIGHT ALSO LIKE
- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Civil and Structural)
- Bachelor of Construction Management (Honours)
- Bachelor of Construction Management

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

DEGREE STRUCTURE

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
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<tbody>
<tr>
<td>Computing for Engineers</td>
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<tr>
<td>Engineering Materials</td>
<td></td>
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<tr>
<td>Mathematical Methods for Engineers 1</td>
<td></td>
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<tr>
<td>Sustainable Engineering Practice</td>
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<td>Mathematical Methods for Engineers 2</td>
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<td>Engineering Mechanics</td>
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<td>Electrical and Electronic Systems</td>
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<td>Engineering Design and Innovation</td>
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<tr>
<th>SECOND YEAR</th>
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<tr>
<td>Engineering Modelling</td>
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<td>Mechanics of Materials</td>
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<tr>
<td>Introduction to Surveying and Spatial Sciences</td>
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<td>Earth Systems</td>
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<td>Introduction to Water Engineering</td>
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<tr>
<td>Road Design and Traffic Management</td>
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<tr>
<td>Civil Engineering Techniques</td>
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<td>Professional Engineering Design Practice</td>
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<table>
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<tr>
<th>THIRD YEAR</th>
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<tr>
<td>Business Management for Engineers</td>
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<td>Soil Mechanics</td>
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<td>Steel and Timber Design</td>
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<td>Hydraulics and Hydrology</td>
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<td>Water Resources Systems Design</td>
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<td>Geotechnical Engineering</td>
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<td>Reinforced Concrete Design</td>
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<td>Construction Scheduling</td>
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<th>FOURTH YEAR</th>
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<td>Industrial Experience N</td>
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<tr>
<td>Engineering Capstone Experience A</td>
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<td>Engineering Honours Project A</td>
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<td>Contract Administration</td>
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<td>Principles of Project Management</td>
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<td>Engineering Capstone Experience B</td>
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<td>Engineering Honours Project B</td>
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<tr>
<td>Advanced Construction Management</td>
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<td>Building Estimating</td>
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“I have always been interested in the way things work and the how structures are designed. Being a practical person, I found UniSA’s hands-on approach to engineering coursework both interesting and beneficial. I am now seeing structures come to life working on the state’s major Northern Connector Project.”

Samuel Matthews, civil and structural engineering graduate
**ELECTRICAL ENGINEERING**

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

unisa.edu.au/engineering

**Mawson Lakes Campus**

- Selection Rank .......... 73.25
- Guaranteed Entry: Selection Rank ................. 75.00
- Selection Rank (VET) .......... Dip

- On-campus
- 4 years full-time
- Intakes: Feb, Jul

**PROGRAM CODE: LHIF | SATAC CODE: 434951**

Pathway: Associate Degree in Engineering (UniSA); Foundation Studies or Diploma in Engineering (UniSA College); or Diploma in Technology (SAIBT).

Prerequisites: SACE Stage 2 Math Methods

Assumed Knowledge: SACE Stage 2 Physics

Graduate as an electrical and electronics engineer, focused on the design, development and optimisation of electrical and electronic devices, equipment, technology and systems. Learn about the generation, transmission and distribution of electrical energy. Study digital electronics, embedded systems, computer networking, and control systems, and prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments.

Access our state-of-the-art facilities, including a Mechatronics Lab and a multi-purpose learning space featuring a Factory of the Future test bed. Gain practical experience and work on real engineering projects through industry placements and work integrated learning experiences. Take the lead on a major project in your final year, working with industry, a government organisation, or in an academic research area. Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You will also be eligible for membership with comparable international institutions.

**CAREERS**

Electrical engineer / electrical design engineer / electronics engineer / embedded systems engineer / power systems engineer / renewable energy engineer / control systems engineer / telecommunications engineer / commissioning engineer / electrical project manager / entrepreneur

**YOU MIGHT ALSO LIKE**

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

**FURTHER STUDY**

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

**DEGREE STRUCTURE**

**FIRST YEAR**

- Computing for Engineers
- Engineering Materials
- Mathematical Methods for Engineers
- Sustainable Engineering Practice

- Mathematical Methods for Engineers 2
- Engineering Mechanics
- Electrical and Electronic Systems
- Engineering Design and Innovation

“Engineering is so much more than maths and physics; think robots, drones and exposure to world-class technology. No two days are ever the same and the opportunities are ridiculous. The future of every economy is based on electricity and electronics, meaning that this degree will be sustainable in terms of employment for many years to come.”

Franke Agenbag, electrical and mechatronic engineering student
Bachelor of Engineering (Honours) (Electrical and Mechatronic)

unisa.edu.au/engineering

Mawson Lakes Campus
On-campus
4 years full-time
Intakes: Feb, Jul

Program Code: LHF | SATAC Code: 434451

Pathways: Associate Degree in Engineering (UniSA); Foundation Studies or Diploma in Engineering (UniSA College); or Diploma in Technology (SAIBT).

Prerequisites: SACE Stage 2 Math Methods

Assumed Knowledge: SACE Stage 2 Physics

Combine studies in electrical and mechanical 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 state-of-the-art facilities, including a Mechatronics Lab and a multi-purpose learning space featuring a Factory of the Future test bed. Gain practical experience and work on real engineering projects through industry placements and work integrated learning experiences. Take the lead on a major project in your final year, working with industry, a government organisation, or in an academic research area. Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You will also be eligible for membership with comparable international institutions.

Careers
Mechanical engineer / industrial engineer / mechanical design engineer / maintenance engineer / project manager / hydraulics engineer / energy system engineer / product development manager / entrepreneur
**Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing)**

unisa.edu.au/engineering

<table>
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<tr>
<th>Mawson Lakes Campus</th>
<th>Selection Rank .......... 77.00</th>
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<tr>
<td>On-campus</td>
<td>Guaranteed Entry: Selection Rank .......... 75.00</td>
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<td>Selection Rank (VET) .......... Dip</td>
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<td>part-time study available</td>
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**Intakes:**
- Feb, Jul

**Program Code:** LHMR | **SATAC Code:** 434791

**Pathways:**
- Associate Degree in Engineering (UniSA);
- Foundation Studies or Diploma in Engineering (UniSA College), or Diploma in Technology (SAIBT).

**Prerequisites:**
- SACE Stage 2 Math Methods
- Assumed Knowledge: SACE Stage 2 Physics

**DEGREE STRUCTURE**

**FIRST YEAR**
- Computing for Engineers
- Engineering Materials
- Mathematical Methods for Engineers 1
- Sustainable Engineering Practice
- Mathematical Methods for Engineers 2
- Engineering Mechanics
- Electrical and Electronic Systems
- Engineering Design and Innovation

**SECOND YEAR**
- Mathematical Methods for Engineers 3
- Mechanical Engineering Practice
- Mechanics of Materials
- Major
- Engineering Dynamics
- Fluid and Energy Engineering
- Mechanical Design Practice
- Professional Engineering Design Practice

**THIRD YEAR**
- Control Systems
- Computer Aided Engineering Practice
- Energy Conversion and Management Major
- Mechanics of Machines
- Business Management for Engineers
- 2 x Major

**FOURTH YEAR**
- Industrial Experience
- Engineering Capstone Experience A
- Engineering Honours Project A
- 2 x Major
- Engineering Capstone Experience B
- Engineering Honours Project B
- 2 x Major

"My UniSA degree has been essential to get me to where I am today. The hands-on approach and skills based learning was particularly beneficial when applied to real world engineering issues. My biggest career highlight to date is being involved in the launch of two Hobart Class Air Warfare Destroyers, highly capable military warships built in Adelaide."

_Bradley Toole, mechanical engineering graduate_
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. Access our state-of-the-art facilities, including a Mechatronics Lab and a multi-purpose learning space featuring a Factory of the Future test bed. Gain practical experience and work on real engineering projects through industry placements and work integrated learning experiences. Take the lead on a major project in your final year, working with industry, a government organisation, or in an academic research area. Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You will also be eligible for membership with comparable international institutions.

CAREERS
Mechanical engineer / manufacturing engineer / industrial engineer / systems engineer / CAE engineer / quality engineer / product development manager / project manager / entrepreneur

YOU MIGHT ALSO LIKE
• Bachelor of Engineering (Honours) (Mechanical)
• Bachelor of Engineering (Honours) (Mechanical and Mechatronic)

FURTHER STUDY
• Master of Engineering (Engineering Management)

DEGREE STRUCTURE

FIRST YEAR
Computing for Engineers
Engineering Materials
Mathematical Methods for Engineers 1
Sustainable Engineering Practice
Mathematical Methods for Engineers 2
Engineering Mechanics
Electrical and Electronic Systems
Engineering Design and Innovation

SECOND YEAR
Mathematical Methods for Engineers 3
Mechanical Engineering Practice
Mechanics of Materials
Manufacturing Processes
Engineering Dynamics
Fluid and Energy Engineering
Mechanical Design Practice
Professional Engineering Design Practice

THIRD YEAR
Control Systems
Computer Aided Engineering Practice
Energy Conversion and Management
Intelligent Manufacturing Systems
Mechanics of Machines
Heat Transfer and Advanced Thermodynamics
Design in Plastics and Advanced Composites
Business Management for Engineers

Take the lead on a major project in your final year, working with industry, a government organisation, or in an academic research area. Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You will also be eligible for membership with comparable international institutions.

CAREERS
Mechanical engineer / systems engineer / mechatronic device designer / mechatronic development engineer / automation engineer / entrepreneur

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)

DEGREE STRUCTURE

FIRST YEAR
Computing for Engineers
Engineering Materials
Mathematical Methods for Engineers 1
Sustainable Engineering Practice
Mathematical Methods for Engineers 2
Mechanical Engineering Practice
Engineering Mechanics
Electrical and Electronic Systems
Engineering Design and Innovation

SECOND YEAR
Mathematical Methods for Engineers 3
Mechanical Engineering Practice
Mechanics of Materials
Manufacturing Processes
Engineering Dynamics
Fluid and Energy Engineering
Mechanical Design Practice
Professional Engineering Design Practice

THIRD YEAR
Control Systems
Computer Aided Engineering Practice
Energy Conversion and Management
Intelligent Manufacturing Systems
Mechanics of Machines
Digital Logic Fundamentals
Industrial Automation Systems
Business Management for Engineers

FOURTH YEAR
Industrial Experience
Engineering Capstone Experience A
Engineering Honours Project A
Total Quality Management
Robotics and Automation
Engineering Capstone Experience B
Engineering Honours Project B
Integrated Industrial Actuation
Design for Manufacture and Assembly

LEARN TO
• Combine mechanical components, computing, integrated automation, and digital control to create new products and improve technical operating systems.
• Explore new ways to make systems smarter and improve technologies that meet human and environmental needs.
• Study specialised courses and the latest developments in robotics, machine tool control, and machine vision systems.
• Prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments.
• Access our state-of-the-art facilities, including a Mechatronics Lab and a multi-purpose learning space featuring a Factory of the Future test bed.
• Gain practical experience and work on real engineering projects through industry placements and work integrated learning experiences.
• Take the lead on a major project in your final year, working with industry, a government organisation, or in an academic research area.
• Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide.
• Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership.

You will also be eligible for membership with comparable international institutions.

Bachelor of Engineering (Honours) (Mechanical and Mechatronic)
unisa.edu.au/engineering

Mawson Lakes Campus  On-campus  Selection Rank ..........75.80
Selection Rank ...............75.00
Guaranteed Entry: 4 years full-time

Intakes: Feb, Jul
Selection Rank ..........75.80
Selection Rank ...............75.00
Guaranteed Entry: 4 years full-time

4 years full-time
part-time study available

FURTHER STUDY
• Master of Engineering (Engineering Management)

PROGRAM CODE: LHM3 | SATAC CODE: 434781
Pathways: Associate Degree in Engineering (UniSA Foundation Studies or Diploma in Engineering (UniSA College), or Diploma in Technology (SABIT)).
Pre-requisites: SACE Stage 2 Math Methods
Assumed knowledge: SACE Stage 2 Physics

Learn to combine mechanical components, computing, integrated automation, and digital control to create new products and improve technical operating systems. Explore new ways to make systems smarter and improve technologies that meet human and environmental needs. Study specialised courses and the latest developments in robotics, machine tool control and machine vision systems. Prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments. Access our state-of-the-art facilities, including a Mechatronics Lab and a multi-purpose learning space featuring a Factory of the Future test bed. Gain practical experience and work on real engineering projects through industry placements and work integrated learning experiences. Take the lead on a major project in your final year, working with industry, a government organisation, or in an academic research area. Go on an overseas study exchange and choose from over 25 countries and more than 60 universities worldwide. Graduate with a degree accredited by Engineers Australia and be eligible for graduate membership. You will also be eligible for membership with comparable international institutions.
LANGUAGES

Diploma in Languages
unisa.edu.au/languages

Explore your interests or advance your career by learning another language. Study the Diploma in Languages alongside your undergraduate degree or as a standalone postgraduate qualification. Learn French, Italian, Japanese or English (as an Additional Language). Access the Multimedia Languages Lab at Magill Campus, where you can connect with native speakers from around the world in real-time. Develop your proficiency in listening, speaking, reading and writing in your chosen language, along with your understanding of the related culture and society. Take the opportunity to study in the country of your chosen language through our exchange or in-country study programs.

ENTRY REQUIREMENTS
- This program is open to all students who have completed or are enrolled in a bachelor degree at the University of South Australia or any other Australian university.
- This program is also open to students who have completed or are currently enrolled in a bachelor or master degree, or equivalent qualification, from an approved higher education institution outside of Australia.
- For postgraduate students, this program can be completed as a standalone qualification.

DEGREE STRUCTURE

INDICATIVE OF FRENCH STUDIES
FIRST YEAR
- French 1A
- French 1B
SECOND YEAR
- French 2A
- French 2B
THIRD YEAR
- French 3A
- French 3B
European Languages In-Country OR Advanced Languages Studies: Translation and Research

POSTGRADUATE

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

To explore our 200+ degrees, visit unisa.edu.au/study
To learn more about how to apply, visit unisa.edu.au/apply

ENGINEERING AND MANAGEMENT

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

unisa.edu.au/engineering

DEGREE STRUCTURE

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

SECOND YEAR
- Engineering and Environmental Masters Design Project
- Masters Research Theory and Practice
- Elective 3
- NBE Masters Research Project
- Elective 4
- Elective 5

Master of Engineering (Electrical Power)

unisa.edu.au/engineering

DEGREE STRUCTURE

INDICATIVE OF ELECTRICAL ENGINEERING PROGRAM
FIRST YEAR
- Power Systems Analysis
- Power System Planning and Protection
- Elective 1
- Power Electronics
- Power System Operation
- Elective 2
- Power System Operation and Protection
- Advanced Power Systems
- Elective 3
- Elective 4
- Elective 5

Second Year
- Power Systems Engineering Design Project
- Elective 6
- Elective 7
- Elective 8
- Elective 9

Master of Engineering (Telecommunications)

unisa.edu.au/engineering

DEGREE STRUCTURE

INDICATIVE OF TELECOMMUNICATIONS PROGRAM
FIRST YEAR
- Digital Signal Processing
- Mobile Communications
- Elective 1
- Digital Communications
- Elective 2
- Wireless Communications
- Elective 3
- Elective 4
- Elective 5

Second Year
- Elective 6
- Elective 7
- Elective 8
- Elective 9
- Elective 10

Master of Engineering (Water Resources Management)

unisa.edu.au/engineering

DEGREE STRUCTURE

INDICATIVE OF WATER RESOURCES MANAGEMENT PROGRAM
FIRST YEAR
- Water Resources Management
- Civil and Environmental Water Management
- Elective 1
- Water Resources Management
- Environmental Water Management
- Elective 2
- Elective 3
- Elective 4
- Elective 5

Second Year
- Water Resources Management
- Environmental Water Management
- Elective 6
- Elective 7
- Elective 8
- Elective 9

Master of Engineering (Construction Management)

unisa.edu.au/engineering

DEGREE STRUCTURE

INDICATIVE OF CONSTRUCTION MANAGEMENT PROGRAM
FIRST YEAR
- Construction Management
- Building Information Modelling
- Elective 1
- Construction Management
- Building Information Modelling
- Elective 2
- Elective 3
- Elective 4
- Elective 5

Second Year
- Construction Management
- Building Information Modelling
- Elective 6
- Elective 7
- Elective 8
- Elective 9
- Elective 10

Master of Engineering (Project Management)

unisa.edu.au/engineering

DEGREE STRUCTURE

INDICATIVE OF PROJECT MANAGEMENT PROGRAM
FIRST YEAR
- Project Management
- Risk Management
- Elective 1
- Project Management
- Risk Management
- Elective 2
- Elective 3
- Elective 4
- Elective 5

Second Year
- Project Management
- Risk Management
- Elective 6
- Elective 7
- Elective 8
- Elective 9
- Elective 10

Develop advanced knowledge in engineering theory and practice, and tailor your studies by choosing a specialisation that interests you most. In Civil and Infrastructure you will focus on structural and geotechnical engineering, and study critical infrastructure such as bridges, buildings, roads and transport systems. In Water Resources Management you will learn to create and design key water resources and management systems. Access industry-standard facilities on campus including high-tech testing and computer modelling equipment. You can also choose to study project management and leadership in your degree through elective courses.

CAREERS

Depending on your chosen program, your career options can include:
- Project manager / operations manager / civil engineer / structural engineer / water resources engineer / construction manager / engineering consultant / lead engineer / engineering manager / researcher

ENTRY REQUIREMENTS
- Bachelor degree or equivalent qualification in civil engineering, or a related discipline, from a recognised higher education institution.
- A related discipline may be other four-year engineering or science degrees.
- Applicants who do not meet the standard entry requirements will be assessed on a case-by-case basis by the Program Director.
- Some applicants may be eligible for Advanced Standing and can complete the program in 1.0 or 1.5 years full-time study, or equivalent part-time study.

YOU MIGHT ALSO LIKE
- Master of Engineering (Engineering Management)
Develop advanced knowledge in engineering theory and practice, and tailor your studies by choosing a specialisation that interests you most. In Electrical Power you will focus on electrical engineering by studying the operation and control of modern power systems, renewable and distributed energy generation, and modelling of electrical machines. In Telecommunications you will learn about information and communication technologies by exploring wireless and mobile communication systems, theory and coding, and complex telecommunication networks. Complete a major research project and a minor engineering thesis during your studies, focusing on real-world engineering challenges. Benefit from links to our internationally-recognised Institute for Telecommunications Research, dedicated to developing new technologies for wireless communications.

CAREERS
Depending on your chosen program, your career options can include:
- Electrical engineer / telecommunications engineer / operations manager / networking planning manager / project manager / renewable energy engineer / engineering consultant / researcher

ENTRY REQUIREMENTS
- Bachelor degree in electrical engineering, or a related discipline, or equivalent qualification.
- Entry is competitive and experience in engineering and information technology, along with completion of professional qualifications will be taken into account.

DEGREE STRUCTURE

**INDICATIVE OF ELECTRICAL POWER PROGRAM**

**FIRST YEAR**
- CORE COURSES
  - Renewable Energy Systems UG
  - Power System Analysis
  - Engineering Research Practice

- SPECIALISATION COURSES
  - Design and Integration of Renewable Energy Systems
  - Operation and Control of Modern Power Systems
  - Power Electronics and Drives
  - Learning in the Workplace Project

**SECOND YEAR**
- CORE COURSES
  - Renewable and Distributed Power Generation
  - Advanced Electrical Machines
  - Advanced Power System Modelling and Analysis
  - Engineering Minor Thesis 1
  - Engineering Minor Thesis 2
- Select one of:
  - Engineering Economic Analysis
  - Total Quality Management
  - Lean Six Sigma
  - Project Planning and Control G
  - Enterprise Resource Planning
  - Operations Management Systems

Master of Engineering (Engineering Management)

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

unisa.edu.au/engineering

**Mawson Lakes Campus**
- Intakes: Feb, Jul
- On-campus
- 2 years full-time
- Commonwealth supported*
- part-time study available

**PROGRAM CODE:** LMEB | **SATAC CODE:** 4CM122

*see page 24 for more information

Learn how to manage operations within an engineering project, department or organisation. Develop advanced knowledge and skills in operations management, total quality management, supply chain management, enterprise resource planning, automation, and project management. Tailor your studies through a wide range of electives including project planning and control, intelligent production systems and energy management. Complete a major industry project or a minor research thesis in an area of interest. Explore the latest findings and innovations in engineering by connecting with our leading research concentrations.
CAREERS
Operations manager / engineering manager / quality assurance manager / business development manager / department manager / bid manager

ENTRY REQUIREMENTS
- Bachelor degree in engineering, science or technology from a recognised higher education institution, or
- Graduate certificate or graduate diploma in engineering from a recognised higher education institution.
- Entry is competitive and experience in engineering and information technology, along with completion of professional qualifications will be taken into account.

YOU MIGHT ALSO LIKE
- Master of Engineering (various specialisations)
- Master of Project Management
- Master of Applied Project Management

DEGREE STRUCTURE

FIRST YEAR
Professional Engineering Practice E
Elective
Elective
Engineering Research Practice
Elective
Elective
Supply Chain Management G
Operations Management Systems
Minor Thesis 2 (Eng)

SECOND YEAR
Engineering Economic Analysis
Enterprise Resource Planning
Minor Thesis 1 (Eng)

PROJECT MANAGEMENT

Master of Applied Project Management

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

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

unisa.edu.au/projectmanagement

Fast-track your studies in project management by studying a 1.5 year program where you will develop fundamental knowledge that can be applied across a wide variety of sectors. Develop an advanced understanding of risk management, leadership, strategy and international best practice. Graduate with the skills to apply effective project management methodologies, work in multi-disciplinary teams and manage projects from inception to delivery and evaluation. Complete a major integrated research project, which can focus on a real issue or challenge within your workplace. Benefit from highly practical coursework based on the industry-endorsed A Guide to the Project Management Body of Knowledge (PMBOK® Guide). You can also choose to specialise in Contract Management, the only specialisation of its kind in Australia, focused on understanding, negotiating and administering contracts. Graduate with a degree endorsed by the Australian Institute of Project Management (AIPM). Benefit from flexible learning, with the program also available online through Open Universities Australia (OUA), and the option to specialise in defence.

CAREERS
Qualified project managers can work across a wide range of industries, including:
Information technology / construction / engineering / health / defence / finance / mining and resources / pharmaceuticals / the arts / government / not-for-profit / education / marketing

ENTRY REQUIREMENTS
- Bachelor degree from a recognised higher education institution, or
- Graduate certificate or graduate diploma in project management from a recognised higher education institution.

DEGREE STRUCTURE

INDICATIVE OF APPLIED PROJECT MANAGEMENT PROGRAM

FIRST YEAR
Principles of Project Management
Project Risk Management
Procurement and Contract Management
Project Governance and Ethics

Project Control Methods
Project Leadership and Teams
Economic, Social and Environmental Analysis
Masters Research Theory and Practice

SECOND YEAR
Strategy in Project Organisations
Portfolio and Program Management
NBE Masters Research Project

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

SPACE STUDIES

Graduate Certificate in Space Studies
unisa.edu.au/aviation

Mawson Lakes
Campus
Intakes: Jan, Jul
On-campus/ Online
$ A$14,250*
0.5 years
full-time

*see page 24 for more information

Explore your curiosity and complete a postgraduate qualification in space studies. Complete an individual research project on a theme related to space technology, biology, economics or policy. Find your research inspiration from the Southern Hemisphere Space Studies Program (SHSSP) White Paper, which explores new solutions for developments in space. Explore your chosen research theme and its direct application to advances in space exploration, understanding and travel. Themes can include global warming, environmental monitoring, disaster mitigation, remote communication or telemedicine. Connect with experts from SHSSP, a unique program delivered in partnership with the International Space University (ISU). Start your studies with an intensive workshop on campus and then complete your research project online.

CAREERS
Analyst / researcher / policy adviser / project manager / scientist / engineer

ENTRY REQUIREMENTS
- Bachelor degree from a recognised higher education institution or equivalent; and
- Successfully completed either the Southern Hemisphere Summer Space Program (SHSSP) or the nine-week International Space University Summer Space Program.

SHSSP
The Southern Hemisphere Space Studies Program (SHSSP) is an intensive, five-week, live-in experience held during summer in the southern hemisphere. Students are based on the international, intercultural and interdisciplinary educational philosophy of the International Space University (ISU). The program offers courses in space applications, space policy and space sciences: it provides a well-rounded overview of the concepts involved in space 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 (UNISA COMPONENT)

Space Studies Project OR Strategic Space Law

Students may complete their studies online or on-campus.
 ENTRY REQUIREMENTS

Masters by Research

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

Doctor of Philosophy (PhD)

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

Alternative entry

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

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

Masters by Research

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

Doctor of Philosophy (PhD)

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

Alternative entry

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

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

APPLYING WITH YEAR 12
Applicants are required to have successfully completed the South Australian Certificate of Education (SACE) with:
- a competitive Selection Rank (ATAR); AND
- the fulfillment of the program’s prerequisite requirements (where applicable).

Applicants may also be eligible to compete for entry if they have completed the program’s prerequisite requirements and have completed one of the following:
- an interstate or overseas qualification considered by the University as equivalent to SACE, or
- the International Baccalaureate Diploma with a minimum score of 24 points.

ADJUSTMENT FACTORS
Universities in South Australia include ATAR-related adjustment factors (previously known as bonus points) for Australian high school students applying for entry into university via the following schemes:
- The Universities Equity Scheme – provides additional points for students coming from specified schools, as well as individuals experiencing 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.

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

ADMISSIONS PATHWAYS
Entering your chosen program straight from high school is not the only pathway into UniSA. Applicants may also meet the minimum requirements to apply for entry (via competitive selection) through one of the following pathways:
- Higher Education Study – completion of at least half a year of full-time equivalent study at UniSA or a recognised higher education institution. You can apply using your Grade Point Average (GPA).
- Higher Education Diploma – completion of a higher education diploma from UniSA College (applicable programs listed on each bachelor program in this guide), the South Australian Institute of Business and Technology (SAIBT), or another recognised higher education institution.
- Special Entry – a competitive Special Tertiary Admissions Test (STAT) score. A personal competencies statement or relevant employment experience may also be considered for some programs.
- Vocational Education Training (VET) – applicants may be eligible for entry with the completion of an award from TAFE, or another Registered Training Organisation at AQF Certificate IV or above.
- UniSA College – there are a variety of pathway options offered through UniSA College, including diplomas and the Foundation Studies program.
- Alternative Pathways – there are a range of alternative pathways including bridging qualifications offered through SAIBT and Eynesbury.
- Open Universities Australia – completion of at least four Open Universities Australia (OUA) courses at an undergraduate level or higher.

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

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

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

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

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

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

As per the Australian Government guidelines, the student contribution amounts for 2019 are:

<table>
<thead>
<tr>
<th>BAND</th>
<th>AREA OF STUDY</th>
<th>STUDENT CONTRIBUTION (For one year of full-time load (1 EFTSL))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Humanities, behavioural science, social studies, foreign languages, visual and performing arts, clinical psychology, nursing and education</td>
<td>$6,566</td>
</tr>
<tr>
<td>2</td>
<td>Computing, built environment, health, engineering, surveying, agriculture, Mathematics, statistics, science</td>
<td>$9,359</td>
</tr>
<tr>
<td>3</td>
<td>Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce</td>
<td>$10,958</td>
</tr>
</tbody>
</table>

Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying; this is listed on applicable programs. For programs under 1.0 year full-time study, fees are listed as the whole program fee (indicative of 2019). For programs over 1.0 years full-time study, fees are listed based on the cost per annum (indicative of 2019). For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution through HECS-HELP or FEE-HELP loans, please visit: unisa.edu.au/fees

Need some help? Contact Future Student Enquiries on (08) 8302 2376 or submit an enquiry via unisa.edu.au/enquire

unisa.edu.au/fees
unisa.edu.au/stayintouch
unisa.edu.au/adjustmentfactors
unisa.edu.au/study
unisa.edu.au/USASA
unisa.edu.au/STUDY AT UniSA – THE BASICS
unisa.edu.au/studentservices
ADMISSIONS PATHWAYS

Entering your chosen program straight from high school is not the only pathway into UniSA. Applicants may also meet the minimum entry requirements, and you have listed the program as your first choice on the SA Tertiary Admission Centre. If your Selection Rank (ATAR) or VET score meets the UniSA Guaranteed Entry score for that program, the International Baccalaureate Diploma with a minimum score of 24 points.

GUARANTEED ENTRY

Adjustment Scheme – provides additional points for students who are former refugees or asylum seekers, students coming from specified schools, as well as individuals who may not be in the position to complete the program’s prerequisite requirements and have demonstrated academic ability in a complementary way.

The Universities Equity Scheme – provides additional points for students from specified fields of study.

Universities in South Australia include ATAR-related adjustment factors and the Universities Equity Scheme.

HOW TO APPLY

Check and ensure that you meet all entry and program requirements before applying. Different pathways may apply.

Applicants to most programs should apply through the South Australian Tertiary Admission Centre (SATAC). For more information on entrance requirements, visit: unisa.edu.au/scholarships

SCHOLARSHIPS

UniSA offers a range of scholarship opportunities, providing financial assistance as well as career advice, scholarship opportunities and what’s happening on campus.

unisa.edu.au/stayintouch

For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution or CSP, please visit: unisa.edu.au/fees

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

FEES

As per the Australian Government guidelines, the student contribution also depends on the unit value of your courses of study. Students in Commonwealth-supported places, deferring your student contribution, are classified (see table below). The amount of your student contribution also depends on the unit value of your courses of study.

Some postgraduate programs are also Commonwealth-supported depending on the type of study. Others are full fee-paying; this is listed on applicable programs.

Some postgraduate programs are also Commonwealth-supported depending on the type of study. Others are full fee-paying; this is listed on applicable programs.

Prerequisites to apply for entry (via competitive selection) through one of the following pathways:

- completion of at least half a year of Higher Education Study
- completion of at least four Open Studies program
- there are a variety of pathway options offered including bridging qualifications offered through SAIBT and Eynesbury for students coming from specified schools, as well as individuals who may not be in the position to complete the program’s prerequisite requirements and have demonstrated academic ability in a complementary way.

For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution or CSP, please visit: unisa.edu.au/fees

Commonwealth-supported places, deferring your student contribution of 2019. For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution or CSP, please visit: unisa.edu.au/fees