Welcome

I'm delighted that you're considering undertaking your studies at the University of South Australia — your time at university will be the greatest intellectual adventure of your life.

It's an exciting time to be joining us as we celebrate our 25th birthday. In those short 25 years we have become one of the world's very best young universities — ranked by QS as number 25 on their list of the world's best universities under 50, and number 35 on the THE Top 100 under 50 list. Excellence in Research Australia, the Australian government's national research evaluation framework, has just evaluated the University of South Australia's research and concluded that 97 per cent of our research is at World Class or above.

The University of South Australia is the state's largest university with around 32,500 students on our two city campuses, two suburban campuses and two regional campuses, including around 6,000 international students. Our programs are designed with strong professional emphasis and in partnership with industry and our graduate employment rates are the best in the State and are well above the national average. In fact, the Good Universities Guide for 2016 rates us as the top university in South Australia for getting a full-time job.

We are educating people for global careers and have been recognised for our international outlook by THE and QS. We also have some very powerful partnerships with global institutions such as Shandong, Tianjin and Beijing Normal Universities in China, Keio University in Japan, Trinity College in Dublin, University College in London and numerous collaborative efforts with universities elsewhere in Europe and North America.

If you decide that the University of South Australia is the right place for you, we will do everything possible to set you on a path to the career of your choice, so that as a graduate, you can take your place as one of the new professionals driving national and international economies through your skills, capabilities and innovation potential.

I hope that you will consider joining us and I look forward to seeing you on campus soon.

Professor David G. Lloyd
Vice Chancellor and President

Acknowledgement of Country

UniSA respects the Kaurna, Boandik and Barngarla peoples’ spiritual relationship with their country. We also acknowledge the diversity of Aboriginal peoples, past and present.

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

2016 Events

Open Day 2016
Sunday, 14 August, City West and City East campuses
unisa.edu.au/openday

Discover Mawson
Thursday, 25 August, 4:00–7:30pm
Mawson Lakes campus
unisa.edu.au infosessions
Your study options explained

Find the right study option for you, no matter where you are in your career.

This guide contains all of the University of South Australia’s study options in the engineering, IT and mathematics area, so you can find the right degree for you.

Maybe you’re at the very start of your university experience, finishing high school or considering study in an area that has always interested you. If so, then an undergraduate degree is probably the right fit for you.

Perhaps you have been working in your field for some time and you’re looking to take that next step. A postgraduate coursework degree can help you further your career.

Alternatively, you could be a specialist in your field with something to give back. Make your mark with a research degree.

Whether you are starting out, stepping up or giving back, we have a study option to suit your journey.

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Australia’s university of enterprise

The University of South Australia is a globally connected and engaged university, helping solve the problems of industry and the professions. Our teaching is industry-informed and our research is inventive and adventurous. We create knowledge that is central to global economic and social prosperity. We are Australia’s university of enterprise.

“We are prioritising the right elements to build an industry-connected, globally enterprising university and one which educates its students for the careers of modern times.”

Prof. David Lloyd
Vice Chancellor and President
University of South Australia

An enterprising spirit

We’ve spent 25 years building our spirit of enterprise. Beginning with three elements, study, solutions and connections, we’ve built an industry-connected university with global reach and one that is ready to create and respond to change.

Study
As South Australia’s largest university, we offer a wide and varied range of programs in the arts, education, social sciences, business and law, health sciences, as well as aviation, engineering and IT, environments, science and mathematics.

Solutions
We are a solutions-oriented university, taking on the challenges of tomorrow and aligning our research toward providing answers in these areas.

Connections
Real solutions don’t happen without great partnerships and we’re teaming up with local icons and international heavyweights to drive the advancements behind a better society.

Some of our partners in the engineering, IT and mathematics area include:

- UCL
- Hewlett Packard Enterprise
- Australian Government Department of Defence
  - Defence Science and Technology Group

97% OF OUR RESEARCH AT OR ABOVE WORLD-CLASS*

THE AUSTRALIAN RESEARCH COUNCIL’S 2015 EXCELLENCE IN RESEARCH FOR AUSTRALIA (ERA)

*Of ERA assessed research

NO. 1 IN SOUTH AUSTRALIA FOR STUDENT SATISFACTION

2016 GOOD UNIVERSITIES GUIDE

CELEBRATING 25 YEARS AND 25TH PLACE AMONG THE WORLD’S TOP 50 UNDER 50

2015/16 QS TOP 50 UNIVERSITIES AGED UNDER 50
Great Hall – opening in 2018, the Great Hall will become the University’s heart of community with a purpose-built amphitheatre, fully-equipped fitness centre and swimming pool.

Student Lounge – featuring nooks, burrows and a town square, the Student Lounge is City West’s newest space for students to meet, greet and play.
Transform your world

Educating industry-experienced innovators with the power to turn ideas into real-world action and inspire a new generation of engineering and technology.

Engineering
In almost every innovation and development, from turning on a light switch to supplying entire communities with power, you’ll find an aspect of engineering. At UniSA, we incorporate strong theoretical teaching, experience-based learning including a 12-week work placement and cutting-edge facilities, to offer the ideal academic blend for producing graduates who are prepared to meet the challenges of modern enterprise.

Our commitment to quality teaching and learning has also received national recognition with a citation for Outstanding Contribution to Student Learning awarded by the Commonwealth Government’s Office for Learning and Teaching (OLT) in 2014.

unisa.edu.au/engineering

Mathematics
UniSA’s mathematics program produces highly-skilled graduates capable of working across a range of careers including risk analysis, environmental modelling, banking, defence, market research and more. Become equipped with the latest skills and knowledge in applied mathematics, optimisation and statistics and hone your skills through a major industry mathematics project. Mathematically-talented female students studying the program may also have their studies supported with $5,000 and a range of benefits through the Hypatia Scholarship program.

unisa.edu.au/scienceandmaths

IT
With PricewaterhouseCoopers research indicating the IT sector has the capacity to create 540,000 new jobs by 2033, UniSA is dedicated to the creation and establishment of tomorrow’s IT leaders. Studying computer and information technology with UniSA will set you apart from the crowd. Delivering connections with industry leaders such as Hewlett Packard Enterprise to offer an IT degree with 12 month paid internships (see page 22 for more information), graduates complete their degrees with industry-relevant specialisations and job-ready experience.

unisa.edu.au/it

Joan and Martin Timlin Memorial WISE Scholarships
Each year from the beginning of 2015 until 2017, four $10,000 Joan and Martin Timlin Memorial WISE Scholarships will be offered to female undergraduate applicants who enrol in a science, technology, mathematics or engineering degree at UniSA. No application is necessary. Successful candidates will be selected based on their SACE performance in STEM subjects such as Mathematical Studies, Chemistry, Biology and Physics.

unisa.edu.au/WISE
Division of Information Technology, Engineering and the Environment

We connect students, partners and researchers, and align the most up-to-date industry knowledge with the ambition to learn through experience.

We have a proud history of furthering education and research in the fields of science and technology to stimulate innovation in Australia and internationally.

With a focus on teaching and research in the areas of science, information technology, engineering, mathematics and the natural and built environments, our three schools are underpinned by the Division’s high quality research, producing outstanding learning outcomes and research results.

You may also be interested in...

If you are interested in a career in engineering, mathematics and technology, you may also be interested in studying:

- Science
- Aviation
- Project Management

Learn a language while you study

The ability to speak a second or third language is an invaluable skill in today’s global environment and our Diploma in Languages provides a unique opportunity to learn French, Italian, Japanese or English (as an Additional Language) alongside your professional studies. Tailored to all ranges of fluency, you can pick up a new language from the very beginning or refine pre-existing speaking, writing and listening skills.

Find out more in the communication, international studies and languages guide or visit unisa.edu.au/languages
BUILT ENVIRONMENT INCLUDING CIVIL ENGINEERING
FIVE STARS FOR EXCELLENCE
2015 QS Stars

AN AUSTRALIAN FIRST
UniSA AND HPE PARTNERSHIP
A UNIQUE IT DEGREE WITH A PAID INTERNSHIP

Hewlett Packard Enterprise

NO.1 FOR ENGINEERING RESEARCH
2015 EXCELLENCE IN RESEARCH AUSTRALIA

NEW MULTIMILLION DOLLAR
FUTURE INDUSTRIES INSTITUTE (FII)
Engineering a smart career
Pathways for your career in technology

Find a unique, flexible pathway into an engineering or IT degree at the University of South Australia.

Pathways into engineering

1. **YEAR 12**
   - Completion of Year 12 with required ATAR, and
   - Completion of prerequisite SACE Stage 2 Mathematical Studies or equivalent

2. **STAT TEST**
   - 18 years of age or older, and
   - Completion of prerequisite SACE stage 2 Mathematical Studies or equivalent

3. **FOUNDATION STUDIES**
   - 18 years of age or older, and
   - Passing in Year 11 Maths and a Science Subject

4. **YEAR 12**
   - Do not meet requirements for entry into Bachelor of Engineering Degree (Hons)

5. **EQUIVALENT TO YEAR 12**
   - Do not meet requirements for entry into Bachelor of Engineering degree (Hons)
   - Prerequisites of Stage 2 Mathematical Studies

6. **UniSA COLLEGE**
   - Diploma in Science and Technology

7. **TAFE**
   - Completion of a Diploma OR Advanced Diploma in a related field, and
   - Completion of Maths as a prerequisite

8. **BACHELOR OF ENGINEERING DEGREE (HONS)**
   - Completion of Year 12 with required ATAR, and
   - Completion of prerequisite SACE Stage 2 Mathematical Studies or equivalent
Pathways into information technology

1. YEAR 12: Completion of Year 12 with required ATAR
2. STAT TEST: 18 years of age or older
3. FOUNDATION STUDIES: 18 years of age or older
4. EQUIVALENT TO YEAR 12: Do not meet requirements for entry into a bachelor degree
5. UNISA COLLEGE: Diploma in Science and Technology (Note: Not applicable for entry into Enterprise Business Solutions program)
6. TAFE: Diploma or advanced diploma in a related field

YEAR 1: Foundation
YEAR 2: Year 1 SABT Diploma of Technology
YEAR 3: Bachelor of Information Technology
YEAR 4: Bachelor of Information Technology (Hons)

4-year programs also available:
- Bachelor of Software Engineering (Hons)
- Bachelor of Information Technology (Hons) (Enterprise Business Solutions)

A record-breaking ride

The world’s longest bike is an example of an industry-engaged project that provides UniSA students with hands-on experience. A collaboration between Santos and UniSA mechanical engineering students, the 41.42 metre bike took over nine months of development and planning to successfully break the Guinness World Record.
Your future begins here

Kick start your tertiary learning and career with undergraduate study.

Undergraduate study is often the first step in tertiary learning. It provides an entry point into university and an introduction to the fundamental skills needed for your future profession, as well as some more specialised knowledge. As such, a completed undergraduate qualification is often a starting point for gaining professional accreditation in many areas. These include engineering, law, architecture, physiotherapy, urban and regional planning and more.

[unisa.edu.au/future]

Qualifications include:

- Diploma: 1-2 years
- Associate Degree: 2 years
- Bachelor: 3-4 years
- Bachelor (Honours): 4 years*

*study times are approximate and based on a full-time study load

*or 1 year in addition to a 3-year bachelor program

Who is it for?

- High-school leavers
- Long-term employees seeking a career change
- Professionals and tradespeople seeking to upskill
- People from a wide range of backgrounds seeking to further their employment prospects and/or gain new knowledge

Find out more:

Entry requirements: see page 32 of this guide

[programs.unisa.edu.au]

How to apply:

[unisa.edu.au/apply]
Bachelor of Mathematical Sciences LBMA

ENTRY

SATAC: 434661
ATAR (Feb 2016 cut-off): 78.45
Preferred score (guaranteed entry): 85
TAFE minimum entry: CertIV
CRICOS program code: 082983K
Prerequisites: Mathematical Studies
Assumed knowledge: none

Key features

> Create innovative mathematical solutions to real-world challenges.
> International experiences available through the exchange program.
> Hypatia and SA Water scholarships available for mathematics-talented women.

Overview

Mathematics can open doors to a wide range of careers with employers looking to solve problems and quantify and understand data. This includes careers in the banking, finance and insurance industries but can also include roles in social media and marketing organisations. The analytical and problem-solving skills you will develop in this program are highly valued by prospective employers and play a vital role in the growth of society as new and improved solutions are sought to societal challenges.

Career opportunities

Graduates of this program have the skills and knowledge necessary to work across a wide range of sectors including:

> finance and banking (including financial organisations and insurance and investment companies)
> environmental (undertaking modelling and education)
> defence (Defence Science and Technology Organisation (DSTO), BAE Systems, Tenix, Australian Submarine Corporation etc.)
> health (statisticians)
> agriculture (modelling and statistics)
> state and federal public service (e.g. Australian Bureau of Statistics etc.).

Honours

Graduates of this program who have achieved at least a credit level grade point average (GPA) can enter the one-year Honours program Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) LHMS (right).

FIRST YEAR

Calculus 1
Directed Elective
Statistical Methods
Discrete Mathematics
Calculus 2
Mathematical Communication
Linear Algebra
Elective

SECOND YEAR

Differential Equations 1
Linear Programming and Networks
Methods of Applied Mathematics 1
Statistical Foundations
Numerical Methods 1
Introduction to Stochastic Processes
Calculus 3
Fundamentals of Real Analysis

THIRD YEAR

Mathematical Sciences Elective 1
Mathematical Sciences Elective 2
Optimisation
Time Series and Forecasting
Mathematical Sciences Elective 3
Mathematical Sciences Elective 4
Vector Calculus with Applications
Applied Functional Analysis

Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) LHMS

ENTRY

SATAC: 4BH005*
CRICOS program code: 040651M

*entry requires completion of a three-year bachelor program

Key features

> Access multi-million dollar facilities including the Materials and Minerals Science Learning and Research Hub.
> UniSA’s research in the field of Mathematical Sciences, including applied and pure mathematics, is ranked at or above world-class by Excellence in Research Australia (ERA).

Overview

This one-year honours program is for students who have completed a bachelor degree in mathematics or equivalent qualification with mentornous performance in their undergraduate studies.

Become a mathematics teacher

Pathways for guaranteed entry into the Master of Teaching

The University of South Australia offers a range of undergraduate degrees with a guaranteed entry pathway into the Master of Teaching (Secondary). The advantage of entering under the guaranteed entry pathway is that once you successfully complete your undergraduate degree, you will automatically gain entry into the Master of Teaching (Secondary)* and be on your way to becoming a specialised secondary teacher in the area of your choice.

Mathematics teacher

Bachelor of Mathematical Sciences/Master of Teaching (Secondary)
SATAC code: 434111

Science teacher

Bachelor of Science/Master of Teaching (Secondary)
SATAC code: 434101

Other combinations are available. For more information please visit: unisa.edu.au/become-a-teacher

*subject to meeting GPA requirements and subject selection
Associate Degree in Engineering \( \text{LTEN} \)

**ENTRY**
- SATAC \( \text{435O21} \)
- ATAR (Feb 2016 cut-off) \( \text{61.35} \)
- Preferred score (guaranteed entry) \( \text{65} \)
- TAFE minimum entry \( \text{CertIV} \)
- CRICOS program code \( \text{066197C} \)
- Prerequisites \( \text{SACE Stage 1} \) Mathematics
- Assumed knowledge \( \text{none} \)

*some courses may be studied online, however on-campus attendance for practicals may still be required

**Key features**
- Pathway to a professional career in engineering.
- Graduate with credit to use towards an engineering bachelor program.
- Become job-ready with a combination of theory-based teaching and practical learning.

**Overview**
The Associate Degree in Engineering offers students the ideal preparation for a professional career in civil, mechanical or electrical engineering and provides a pathway into all Bachelor of Engineering (Honours) programs and specialisations offered at the University of South Australia.

You can choose to complete this program and seek employment in the area of your choice or continue onto further study in a Bachelor of Engineering (Honours) program to fulfill the requirements for graduate membership of Engineers Australia and become a fully-qualified professional engineer.

**Career opportunities**
Completion of this program allows you to transfer into the bachelor degree (with credit), or seek employment and return to study at a later time. Some roles you may find employment in upon graduation include:
- technologist
- designer
- specialist technician
- managing officer.

**Open Universities Australia (OUA)**
This program can be studied online via Open Universities Australia. Search for the Associate Degree in Engineering at open.edu.au/courses

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**Bachelor of Engineering (Honours) (Civil) \( \text{LHMI} \)**

**ENTRY**
- SATAC \( \text{430481} \)
- ATAR (Feb 2016 cut-off) \( \text{71.45} \)
- Preferred score (guaranteed entry) \( \text{80} \)
- TAFE minimum entry \( \text{CertIV} \)
- CRICOS program code \( \text{08180M} \)
- Prerequisites \( \text{Mathematical Studies} \) and \( \text{Physics} \)

**Key features**
- Access industry-standard facilities including the largest strong floor in the southern hemisphere and a 1200m long hydraulic testing facility.
- Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
- Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.
- Learn from well above world-class (2015 Excellence in Research Australia rated 5) researchers in Civil Engineering.

**Overview**
Civil engineers serve society by developing infrastructure such as bridges, buildings, airports, roads, railways, and water and wastewater supply, treatment and reuse systems. Graduates of this program are equipped to work creatively and sustainably in the design, construction and maintenance of critical infrastructure.

You will learn to apply engineering theory to real-world challenges through focused project and assignment work. In the final year, more than 50 per cent of the coursework is project based, including a major industry-related research project and a class design project that models industry practice.

**Career opportunities**
Graduates of this program are qualified as civil engineers in a wide range of areas including:
- construction and building
- design consultancy
- project management.

**Professional accreditation**
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these organisations please visit washingtongoaccord.org and engineersaustralia.org.au

**Pathways**
Alternative entry pathways into this program are available. Please see page 8 for more information.

**Further study**
On completion of your Honours degree, you may apply for entry into the Master of Engineering (LMCL), which can be completed with an additional year of full-time study. For more information on this program please see page 25.
Bachelor of Engineering (Honours) (Civil and Structural) LHMI

**ENTRY**

SATAC: 434941  
ATAR (Feb 2016 cut-off): 70.9  
Preferred score (guaranteed entry): 80  
TAFE minimum entry: Cert IV  
CRICOS program code: 081807A  
Prerequisites: Mathematical Studies  
Assumed knowledge: Physics

**Key features**

> Access industry-standard facilities including the largest strong floor in the southern hemisphere and a 1200m long hydraulic testing facility.  
> Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.  
> Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.  
> Learn from well above world-class (2015 Excellence in Research Australia rated 5) researchers in Civil Engineering.

**Overview**

Civil and structural engineers focus on the design and construction of buildings, bridges and other environmental components. They are responsible for the infrastructures and resources essential for the daily functions of cities, towns and rural areas. Graduates of this specialisation are prepared for careers in the development and implementation of environmentally responsible and efficient infrastructure systems, areas that are critical for the sustainable development of countries worldwide.

**Career opportunities**

You will be prepared for a career as a professional civil engineer, capable of working on large-scale infrastructure projects including:

> buildings  
> bridges  
> storage tanks  
> roads and transport networks.

**Professional accreditation**

The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these organisations please visit washingtonaccord.org and engineersaustralia.org.au

**FIRST YEAR**

- Computer Techniques
- Engineering Materials
- Mathematical Methods for Engineers 1
- Sustainable Engineering Practice
- Mathematical Methods for Engineers 2
- Engineering and Environmental Geology
- Engineering Mechanics
- Engineering Design and Innovation

**SECOND YEAR**

- Engineering Modelling
- Mechanics of Materials
- Geospatial Science for Engineers
- Elective
- Introduction to Water Engineering
- Water Chemistry
- Civil Engineering Practice
- Road Design and Traffic Management

**THIRD YEAR**

- Professional Engineering Practice E
- Soil Mechanics
- Steel and Timber Design
- Hydraulics and Hydrology
- Geotechnical Engineering
- Reinforced Concrete Design
- Structural Analysis
- Water Resources Systems Design

**FOURTH YEAR**

- Industrial Experience N
- Civil Engineering Design Project
- Research Theory and Practice
- Prestressed Concrete Design
- Civil Engineering Honours Project N
- Earthquake and Masonry Engineering
- Cold-formed Steel Design

**Passionate about learning**

An enthusiastic educator with a long history teaching civil engineering at UniSA, Professor Julie Mills has been recognised with several national and university awards. A highlight of these includes the National Teaching Excellence Award from the Australasian Association for Engineering Education in 2009.

“I’ve always loved teaching and am passionate about project-based learning and inclusive education in engineering.”

Professor Julie Mills  
Head of School – Natural and Built Environments
Bachelor of Engineering (Honours) (Electrical and Electronic) LHF

ENTRY
SATAC 434695
ATAR (Feb 2016 cut-off) 72.9
Preferred score (guaranteed entry) 80
TAFE minimum entry 69
CRICOS program code 08110F
Prerequisites Mathematical Studies
Assumed knowledge Physics

Key features
> Access first class facilities including the Engineering Mechatronics Lab and Experience One Studio.
> Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
> Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.
> In the 2015 QS subject rankings, the University’s electrical and electronic engineering was ranked in the top 200 institutions in the world.

Overview
Electrical engineers focus on energy and information including design and operation of devices, equipment, technology, services and systems and the generation, processing and transfer of these in safe and sustainable ways. You will gain the skills and knowledge needed to work on devices and services including electrical generation systems; including renewable energy sources, electric and autonomous vehicles and robotics and consumer products.

Career opportunities
Electronic engineers design, develop, test and maintain electronic parts and systems used in:
> electrical power and energy (generation, supply and management)
> defence
> automotive
> electronics manufacturing
> environmental
> communications and broadcast media.

Professional accreditation
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these organisations please visit washingtonaccord.org and engineersaustralia.org.au

FIRST YEAR
Mathematical Methods for Engineers
Introduction to Computer Systems
Computer Techniques
Sustainable Engineering Practice
Mathematical Methods for Engineers
Electrical and Electronics Engineering Physics N
Engineering Design and Innovation

SECOND YEAR
Programming for Engineers
Electrical Circuit Theory
Elective 1
Methods of Applied Mathematics 1
Microcontroller Programming and Interfacing
Electronic Devices and Circuits
Signals and Systems
Elective 2

THIRD YEAR
Digital Circuits and Systems
Linear Electronic Circuits
Control Systems
Professional Engineering Practice E
Data Communications and Networks
Embedded System Design
Industrial Experience
Systems Engineering
Elective 3

FOURTH YEAR
Engineering Research Practice
Engineering Honours Project 1
Elective 4
Elective 5
Engineering Honours Project 2
Elective 6
VLSI Design

FOURTH YEAR (WITH INTERNSHIP)
Engineering Research Practice
Engineering Internship Research Project
Elective 4
Elective 5
Elective 6
VLSI Design

Pathways
Alternative entry pathways into this program are available. Please see page 8 for more information.

Further study
On completion of your degree you may apply for entry to the Master of Engineering (LMEL) either electrical power or telecommunications specialisation. Depending on the specialisation profile, elective courses taken as part of the bachelor degree and the master specialisation, you may receive up to one year of advanced standing in the two-year master program (see page 27 for more information).

Professional accreditation
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on this program please see page 27.

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

ENTRY
SATAC 434695
ATAR (Feb 2016 cut-off) 79.4
Preferred score (guaranteed entry) 80
TAFE minimum entry 69
CRICOS program code 08111E
Prerequisites Mathematical Studies
Assumed knowledge Physics

Key features
> Access first class facilities including the Engineering Mechatronics Lab and Experience One Studio.
> Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
> Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.

Overview
The Bachelor of Engineering (Honours) (Electrical and Mechatronic) program leads to a rewarding career in an ever-expanding and exciting discipline that integrates mechanical, electrical engineering, and computer sciences. Mechatronics encompasses robotics, machine tool control, automated guided vehicles, medical diagnostics and prosthetics and its applications are only limited by human imagination and ingenuity. With a strong emphasis on practice-based learning that incorporates challenging and creative project work, you will gain the skills and knowledge necessary to pursue a career as a mechatronics engineer.

Career opportunities
Mechatronic engineers have a diverse skillset that enables them to perform a wide range of tasks including but not limited to:
> design and development of mechatronic devices and systems (electronic, automotive, consumer goods etc.)
> control power stations and alternative energy systems
> supervision of manufacture
> investigation of complex systems
> management and development of computer applications and programs.

Further study
On completion of your degree you may apply for entry to the Master of Engineering (LMEL) either Electrical Power or Telecommunications specialisation. Depending on the specialisation profile and elective courses taken as part of the bachelor degree and the master specialisation stream applied for, you might receive up to one year of advanced standing in the two-year master program. For more information on this program please see page 27.
Bachelor of Engineering (Honours) (Mechanical) LHMR

ENTRY
SATAC 434321
ATAR (Feb 2016 cut-off) 71.6
Preferred score (guaranteed entry) 80
TAFE minimum entry CertIV
CRICOS program code 08181M

Preliminary requirements
Mathematical Studies
Assumed knowledge
Physics
Some courses may be studied online, however on-campus attendance for practicals may still be required.

Key features
• Access first-class facilities including the Engineering Mechatronics Lab and Experience One Studio.
• Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
• Learn from well above world-class (2015 Excellence in Research Australia rated 5) researchers in Mechanical Engineering.

Overview
Mechanical engineers build and design solutions that use mechanised power and machinery and tools. Engineer solutions to everyday challenges and learn about the latest developments in machinery design, manufacturing technologies, and sustainable energy usage and management. Specialised courses in the final year provide further knowledge of mechanical topics, including mechanical vibration analysis, sustainable development and design practice, and more.

Career opportunities
Our graduates have worked for the Australian Submarine Corporation, Caroma, Origin Energy, Bridgestone and more. Mechanical engineers generally find work in:
• mining
• defence
• manufacturing
• maritime (ship building)
• environmental
• consulting
• petrochemical.

Pathways
Alternative entry pathways into this program are available. Please see page 8 for more information.

Professional accreditation
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these organisations please visit washingtonaccord.org and engineersaustralia.org.au

Further study
On completion of your degree you may apply for entry to the Master of Engineering (Engineering Management) (LMEB) in either the engineering management or autonomous systems streams. Depending on the specialisation profile and elective courses taken as part of the bachelor degree you might receive up to one year of advanced standing in the two-year master program. For more information on this program please see page 26.

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

ENTRY
SATAC 434791
ATAR (Feb 2016 cut-off) 80.75
Preferred score (guaranteed entry) 80
TAFE minimum entry CertIV
CRICOS program code 08181AB

Preliminary requirements
Mathematical Studies
Assumed knowledge
Physics

Key features
• Access exciting facilities including the Engineering Mechatronics Lab and Experience One Studio.
• Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
• Learn from well above world-class (2015 Excellence in Research Australia rated 5) researchers in Mechanical Engineering.

Overview
Advanced manufacturing involves the utilisation of new manufacturing and management techniques and sophisticated, high-precision machines. It also involves the application of information and communication technology (ICT) as well as electronics and new organisational practices within the manufacturing sector to improve products and processes.

This degree focuses on the application of theoretical knowledge to the latest technologies and techniques, a mixture that is highly sought after by today’s employers. You will also have the opportunity to apply your knowledge through a final-year project with either the Mawson Institute, one of UniSA’s leading research institutes, or a project with one of our industry partners.

Career opportunities
Engineers involved in advanced manufacturing perform a number of functions including:
• running and optimising existing plants
• improving automated processes
• implement software systems (eg. Enterprise Resource Planning (ERP), CMMS, 3D mechanical design, robotics and advanced scheduling)
• manufacturing execution systems.

Professional accreditation
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these pathways please visit the above websites.

Pathways
Alternative entry pathways into this program are available. Please see page 8 for more information.

Further study
On completion of your degree you may apply for entry to the Master of Engineering (Engineering Management) (LMEB) in either engineering management or autonomous systems streams. Depending on the specialisation profile and elective courses taken as part of the bachelor degree you might receive up to one year of advanced standing in the two-year master program. For more information on this program please see page 26.
Bachelor of Engineering (Honours)
(Mechanical and Mechatronic) LHMR

**ENTRY**
SATAC 434781
ATAR (Feb 2016 cut-off) 79.05
Preferred score (guaranteed entry) 80
TAFE minimum entry Cert IV
CRICOS program code 08181SA
Prerequisites Mathematical Studies
Assumed knowledge Physics

**Key features**
> Access exciting facilities including the Engineering Mechatronics Lab and Experience One Studio.
> Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
> Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.
> Learn from well above world-class (2015 Excellence in Research Australia rated 5) researchers in Mechanical Engineering.

**Overview**
This program actively integrates mechanical engineering with computing, control, automation and actuation making graduates well-equipped to tackle complex multidisciplinary problems. Specialised final-year courses provide innovative topics in mechanical and mechatronics engineering such as robotics and machine vision. You will also have the opportunity to apply this knowledge through a project with one of UniSA’s leading research institutes, or a project with one of our industry partners.

**Career opportunities**
Working at the interface between mechanical, electrical and information engineering you will be equipped to work as an engineer in a variety of industries including:
> defence
> automotive
> aviation
> automation
> manufacturing
> electronics.

**Professional accreditation**
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these organisations please visit washingtongaccord.org and engineersaustralia.org.au

**Pathways**
Alternative entry pathways into this program are available. Please see page 8 for more information.

**Further study**
On completion of your degree you may apply for entry to the Master of Engineering (Engineering Management) (LMEB) in either the engineering management or autonomous systems streams. Depending on the specialisation profile and elective courses taken as part of the bachelor degree you might receive up to one year of advanced standing in the two-year master program. For more information on this program please see page 26.

Bachelor of Engineering (Honours) (Mechatronic) LHEG

**ENTRY**
SATAC 434031
ATAR (Feb 2016 cut-off) 72.25
Preferred score (guaranteed entry) 80
TAFE minimum entry Cert IV
CRICOS program code 08181TK
Prerequisites Mathematical Studies
Assumed knowledge Physics

**Key features**
> Access facilities such as the Engineering Mechatronics Lab and Experience One Studio.
> Prepare for the workplace with 12 weeks of compulsory industry experience and activities such as the Engineers Without Borders project.
> Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.

**Overview**
Mechatronics is an interdisciplinary area of engineering that combines mechanical engineering with electrical engineering and computer science. A typical mechatronic system senses signals from the environment, processes them to generate data, then transforms that data into forces, motions and actions. Mechatronics has broad applications, including the design and operation of intelligent products and systems, such as autonomous vehicle systems for mining and other applications, and in the development of sophisticated robotic and automatic production systems.

**Career opportunities**
Mechatronics engineers are equipped with the skills necessary to work in companies across a range of industries, particularly mining, defence and manufacturing. Some examples include:
> Australian Submarine Corporation
> Defence Science and Technology Organisation
> BAE Systems
> Codan
> BHP Billiton
> small to medium companies that operate highly specialised businesses.

**Professional accreditation**
The successful completion of this program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord. For further information on these organisations please visit washingtongaccord.org and engineersaustralia.org.au

**Pathways**
Alternative entry pathways into this program are available. Please see page 8 for more information.

**Further study**
On completion of your degree you may apply for entry to the Master of Engineering (Engineering Management) (LMEB) in either the engineering management or autonomous systems streams. Depending on the specialisation profile and elective courses taken as part of the bachelor degree (LHMR or LHEG), you might receive up to one year of advanced standing in the two-year master program. For more information on this program please see page 26.
Robot battle national champions; UniSA engineering students claim first prize

“Our final robot used a design unique to this year’s contest, by combining an electromagnet and crane in the design we reflected a realistic solution the autonomous cargo problem. Our hope was that our solution could act as a scaled down prototype to a real solution.

“Competitions like this are a great motivator. It drives students to innovate in their engineering studies and build industry connections and get exposed to new ideas.”

Daniel Griffiths
Doctor of Philosophy
Co-supervisor of Team UniSA at the National Instruments Autonomous Robotics Competition, and member of UniSA’s Mechatronic and Engineering Robotics Club (MERC)
Game on for UniSA students

Studying at the University of South Australia was an easy choice for Michael. “I looked for some courses that could help me gain the skills to develop video games and the only one I could find was the Bachelor of Information Technology (Games and Entertainment Design).”

Michael recalls the technology and facilities available to students. “They gave us a dedicated games lab. It became more than a home to us. It was a place we wanted to be in and we learned a lot about developing games, the industry and about each other. It was fantastic.”

“The lecturers would sit next to you and do this thing called pair programming. I remember my first experience with pair programming it was a very humbling experience. It’s what you learn from your peers and your lecturers that really makes a difference when it comes to getting a job and really learning how to succeed in life,” Michael said.

Michael Ulpen
Bachelor of Information Technology (Games and Entertainment)
Bachelor of Information Technology (Games and Entertainment Design) - LBCP

ENTRY
SATAC 434881
ATAR (Feb 2016 cut-off) 60.55
Preferred score (guaranteed entry) 70
TAFE minimum entry Cert IV
CRICOS program code 067898K
Prerequisites none
Assumed knowledge none

Key features
- Train using the latest industry tools and work practices and access exciting facilities including the IT Development Studio and IT Innovation Studio.
- Gain real-world experience through projects and placements with industry partners.
- A common first year across UniSA’s IT programs enables you to switch between IT specialisations with credit for completed courses.
- Learn from world-class (2015 Excellence in Research Australia rated 3) researchers in Artificial Intelligence and Image Processing, Computer Software and Information Systems.

Overview
The emergence of computer and software applications in games and entertainment generated great demand for specially trained IT professionals who could develop new and exciting applications for business, recreational and educational purposes.

This program covers computer graphics programming, multimedia design and the wider area of information visualisation. It provides a mix of technical and creative skills for those who want to learn techniques to build highly visual systems. You will be prepared for positions that support the growing demand for game-type productions, software and interfaces used in enterprise.

Career opportunities
Graduates of this program have the skills necessary to perform in a variety of roles in the gaming and entertainment industry. Some of these include:
- multimedia specialist
- web developer
- graphics designer
- programmer
- IT specialist
- animator
- game designer.

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Design Thinking and Digital Innovation
Information Technology Fundamentals
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management

SECOND YEAR
Interface Design Interaction and Experience
Web Development
Data Structures
Agile Development with .NET
Systems Design
Tools for Software Development
Game Asset Creation
Software Development with C++

THIRD YEAR
Computer Game Design Concepts
Small Business for Professionals
Mobile Game Development
Artificial Intelligence
Elective
Game Engines and Graphics
ICT Project

Professional accreditation
This program is professionally accredited by the Australian Computer Society.

Pathways
Alternative entry pathways into this program are available. Please see page 9 for more information.

Honours
An Honours degree (LHCP) is available as an additional year of study for those with outstanding academic results. For more information on this program see page 21.

Bachelor of Information Technology (Mobile Application Development) - LBCP

ENTRY
SATAC 434919
ATAR (Feb 2016 cut-off) 60.9
Preferred score (guaranteed entry) 70
TAFE minimum entry Cert IV
CRICOS program code 08333E
Prerequisites none
Assumed knowledge none

Key features
- Train using the latest industry tools and work practices and access exciting facilities including the IT Development Studio and IT Innovation Studio.
- Gain real-world experience through projects and placements with industry partners.
- A common first year across UniSA’s IT programs enables you to switch between IT specialisations with credit for completed courses.
- Learn from world-class (2015 Excellence in Research Australia rated 3) researchers in Artificial Intelligence and Image Processing, Computer Software and Information Systems.

Overview
The Internet is mobile and the future of mobile is applications (apps). Smartphones, tablets and wireless technology all play an important role in our interaction with entertainment, social networks, e-commerce and information sourcing and sharing. Mobile app downloads are set to exceed 100 billion this year, according to new data from Gartner (IT) creating a surge of demand for mobile application specialists, a demand that is currently outstripping supply.

This program will help you become a mobile app innovator, providing you with the technical knowledge and the specialised software skills to develop and design your own mobile apps across various modern platforms in this rapidly changing IT environment.

Career opportunities
Graduates of this program have the specialist skills and knowledge required to undertake roles including:
- Android/iOS Apps developer
- iOS web developer
- web programmer
- software applications programmer
- mobile developer
- mobile applications architect
- mobile deployment officers
- mobile applications programmer.

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Information Technology Fundamentals
Design Thinking and Digital Innovation
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management

SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Data Structures
Agile Development with .NET
Systems Design
Tools for Software Development
Software Development with C++

THIRD YEAR
Small Business for Professionals
Concurrent Programming
Mobile Game Development
Information Technology Management
Mobile Application Enterprise Development
Mobile Enterprise Workshop
ICT Project

Professional accreditation
This program is designed to meet the requirements for professional accreditation and graduate membership of the Australian Computer Society. Such accreditation is provisional until the program produces its first graduates.

Pathways
Alternative entry pathways into this program are available. Please see page 9 for more information.

Honours
An Honours degree (LHCP) is available as an additional year of study for those with outstanding academic results. For more information on this program see page 21.
### Bachelor of Information Technology (Networking and Cybersecurity) **LBCP**

**Overview**
The security of information systems has become a very important aspect of contemporary IT. In this specialisation, you will be exposed to the techniques and theory that support network topologies and networking devices such as routers and firewalls. In particular, the networking courses prepare you for industry certification examinations in Cisco, CCNA and CCNP where you will be in a position to not only graduate with a degree, but with this highly regarded industry certification, which will increase your employment prospects.

**Entry**
- SATAC: 434891
- ATAR (Feb 2016 cut-off): 60.1
- Preferred score (guaranteed entry): 70
- TAFE minimum entry: Cert IV
- CRICOS program code: 06789J
- Prerequisites: none
- Assumed knowledge: none

**First Year**
- Network Fundamentals
- Problem Solving and Programming Fundamentals
- Design Thinking
- Systems Analysis
- Database Fundamentals
- IT Project Management

**Second Year**
- Interface Design, Interaction and Experience
- Web Development
- Systems Administration
- Network Architecture
- Systems Design
- Elective
- Network Security
- CCNP Route

**Third Year**
- Communication and Collaboration
- CCNP Switch and Troubleshoot
- Cloud, Virtualisation and Storage
- Information Security Management
- Network Management
- Digital Forensics and Electronic Discovery
- ICT Project

**Career Opportunities**
IT professionals have skills to provide services to a wide range of organisations performing a number of roles. Some of these include:
- network analyst
- customer service manager
- customer relationship manager
- telecoms engineer
- capacity planner
- security specialist
- systems administrator
- network manager
- PC support
- sourcing specialist
- network designer.

**Professional Accreditation**
This program is professionally accredited by the Australian Computer Society.

**Paths**
Alternative entry pathways into this program are available. Please see page 9 for more information.

**Honours**
An Honours degree (LHCP) is available as an additional year of study for those with outstanding academic results. For more information on this program see page 21.

### Bachelor of Information Technology (Software Development) **LBCP**

**Overview**
If you are interested in software development and programming in a variety of languages, then you will find the Bachelor of Information Technology (Software Development) both challenging and rewarding. A key focus is learning how large software systems are designed and created. You will be exposed to real-world applications, the latest research developments and technologies through placements, internships and research projects with industry partners, providing greater employment prospects after graduation.

**Entry**
- SATAC: 434871
- ATAR (Feb 2016 cut-off): 60.35
- Preferred score (guaranteed entry): 70
- TAFE minimum entry: Cert IV
- CRICOS program code: 067897M
- Prerequisites: none
- Assumed knowledge: none

**First Year**
- Network Fundamentals
- Problem Solving and Programming Fundamentals
- Design Thinking
- Systems Analysis
- Database Fundamentals
- IT Project Management

**Second Year**
- Interface Design, Interaction and Experience
- Web Development
- Systems Administration
- Network Architecture
- Systems Design
- Elective
- Network Security
- CCNP Route

**Third Year**
- Elective
- Agile Development with .NET
- Concurrent Programming
- Cloud Programming
- Mobile Application Enterprise Development
- ICT Project

**Professional Accreditation**
This program is professionally accredited by the Australian Computer Society.
Bachelor of Software Engineering (Honours) LHSG

**ENTRY**
- SATAC: 434211
- ATAR (Feb 2016 cut-off): 65.95
- Preferred score (guaranteed entry): 80
- TAFE minimum entry: DIP in IT
- CRICOS program code: O8189G
- Prerequisites: none
- Assumed knowledge: none

**Key features**
- Train using the latest industry tools and work practices and access facilities including the IT Development Studio and IT Innovation Studio.
- Gain real-world experience through projects and placements with industry partners.
- A common first year across UniSA’s IT programs enables you to switch between IT specialisations with credit for completed courses.

**Overview**
Software engineering is more than just programming. Developing large, complex systems on time and within budget requires up-to-date software engineering knowledge and familiarity with current software engineering practices used around the world as well as the ability to communicate in an engineering context.

This program provides a broad understanding of computing and IT theory and practice, along with the specialist knowledge and skills required of a software engineer. The program will help you develop the cognitive skills for critical thinking and the judgement to understand the technical and design elements of software engineering through the final-year research project.

**Career opportunities**
Graduates will have the skills and knowledge to perform in roles such as:
- software architect
- software developer
- testing manager
- release manager
- sales consultant
- quality manager
- IT trainer
- application architect
- strategic planner
- software engineer
- programmer
- team leader.

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Bachelor of Information Technology (Honours) LHCP

**ENTRY**
- SATAC: 4BH006
- CRICOS program code: O24200E
- *Entry requires completion of a three-year bachelor program

**Key features**
- Supported by a strong cooperative research environment including the Advanced Computing Research Centre.
- Learn from research experts.
- Focus your IT studies on your interests.

**Overview**
You may be eligible to undertake this Honours program if you have achieved outstanding academic results from a relevant information technology bachelor degree. The program prepares you for postgraduate and PhD studies or industrial employment in the field of computing, information technology or information systems. It provides you with advanced coursework topics and a major project in computer and information science, information systems and equivalent disciplines.

**Career opportunities**
Graduates of this program are suited to a range of leadership and research roles within the IT sector including:
- project manager
- research assistant
- programmer
- software designer
- network architect.

**Professional accreditation**
This program is professionally accredited by the Australian Computer Society.

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Mac Lab at Mawson Lakes campus
Bachelor of Information Technology (Honours) (Enterprise Business Solutions) LHIT

ENTRY
SATACT        434121
ATAR (Feb 2016 cut-off)     80.7
Preferred score (guaranteed entry)   n/a
TAFE minimum entry           DIP in IT
Prerequisites               none
Assumed knowledge          none

Key features
> An Australian first – UniSA and HPE partnership.
> A paid, 12-month internship built into your degree.
> Add major industry player Hewlett Packard Enterprise (HPE) to your CV before you graduate.

Overview
This four-year Honours program offers an experience that will set you apart from many IT graduates. Developed to shape the next business and IT leaders, this degree will help you stand out from the crowd by adding major industry players, such as Hewlett Packard Enterprise, to your CV before you graduate with a paid industry-focused 12-month internship built into your degree.

As a student of this program you will experience world-leading training and education while you develop specialist knowledge in either software application or infrastructure services streams, chosen at the end of your first year. Graduate as a well-rounded IT professional with a blend of technical skills, business knowledge and a unique industry experience and insight.

Career opportunities
IT is a core part of modern business and following your studies you could secure opportunities in the following areas:
> high-level IT support
> applications and software development
> infrastructure architecture and design
> project management
> business development.

Professional accreditation
This program is designed to meet the requirements for provisional accreditation and graduate membership of the Australian Computer Society. Such accreditation is provisional until the program produces its first graduates.

FIRST YEAR
Design Thinking and Digital Innovation
Problem Solving and Programming
Network Fundamentals
Information Technology Fundamentals
Programming Fundamentals
IT Project Management
Database Fundamentals
Systems Analysis

APPLICATION SERVICES SPECIALISATION
SECOND YEAR
Web Development
Interface Design, Interaction and Experience
Data Structures
Accounting Principles for Business Decisions
Systems Design
Tools for Software Development
Management and Organisation
Business Decision Making Simulation

THIRD YEAR
Service Management and Integration
Concurrent Programming
Professional Development and Practice
Agile Development with .NET
IT Industry Internship
Research Methods

FOURTH YEAR
IT Industry Internship (Honours)
Cloud Programming
Big Data Basics
Mobile Application Enterprise Development
IT Elective

INFRASTRUCTURE SERVICES SPECIALISATION
SECOND YEAR
Information Security Management
Systems Administration
Network Architecture
Accounting Principles for Business Decisions
Systems Design
Network Security Management and Organisation
Business Decision Making Simulation

THIRD YEAR
Service Management and Integration
Concurrent Programming
Professional Development and Practice
Communication and Collaboration
Cloud, Virtualisation and Storage
IT Industry Internship
Research Methods

FOURTH YEAR
IT Industry Internship (Honours)
Big Data Basics
Information Technology Strategy and Management
Data Centre Management
IT Elective

UniSA and Hewlett Packard Enterprise partner to offer an IT Honours degree with a 12 month paid internship

Do you want to kick start your career before you graduate from university? Use your interest and skill in either IT or mathematics to become a leader in business.

In an Australian first, the University of South Australia and Hewlett Packard Enterprise have partnered to offer the Bachelor of Information Technology (Honours) (Enterprise Business Solutions) with a paid 12 month internship built into the degree.

Entry into this degree is now open and offers you the unique opportunity to develop business and IT knowledge from UniSA experts and put it into practice in a real workplace.

To find out more visit
unisa.edu.au/ITEnterpriseBusinessSolutions

Damien Raines, Bachelor of Information Technology (Honours) (Enterprise Business Solutions), HPE Intern
Hard work rewarded

“I have always had the feeling of wanting to know just how computers worked. I was awarded the ‘SA Water Ada Scholarship in Information and Communication Technology Placement’ in 2012. It reinforced my belief that hard work gets rewarded. The most enjoyable aspects of my job are the continual learning opportunities, being involved in an ever-evolving industry, and satisfaction when I’ve solved a client’s problem.”

Jane Hocking
Bachelor of Information Technology (Networking and Security)
Realise your potential

Take your career to the next level with postgraduate coursework.

Coursework degrees provide advanced professional and technical skills that extend beyond the fundamental knowledge and skills taught at undergraduate level. They are an ideal way to gain the further skills and knowledge needed to pursue positions in management and also provide a competitive edge in the job market.

Qualifications are available at graduate certificate, graduate diploma and master levels, with varying durations and entry requirements depending on the level of study. Flexible modes including part-time and full-time study options, as well as on-campus and online delivery, are available to help you balance your studies with your life.

unisa.edu.au/postgrad

Qualifications include:

Graduate Certificate: 6 months
Graduate Diploma: 1 year
Master: 1–2 years

*study times are approximate and based on a full-time study load.

Who is it for?

> Recent university graduates
> Qualified professionals seeking specialised knowledge in their field
> Unqualified professionals who have significant work experience and are looking to undertake study in their field

Find out more:

Entry requirements: see program for more information

programs.unisa.edu.au

How to apply:

unisa.edu.au/apply

Open Universities Australia programs

Students can also study the following postgraduate programs through Open Universities Australia (OUA):

> Master of Engineering (Civil and Transport): 1 year
> Master of Engineering (Engineering Management): 1 year
> Master of Project Management: 2 years
> Graduate Diploma in Project Management: 1 year
> Graduate Certificate in Project Management: 6 months
Master of Engineering \textit{LMCL}

\textbf{Specialisations}

\begin{itemize}
  \item Civil and Infrastructure
  \item Transport
  \item Water Resources Management
\end{itemize}

\textbf{Transport}

You will learn the skills and abilities to synthesise traffic, develop transport and engineering theories and apply them to solve practical cases. You will evaluate and conduct traffic accident investigations, adapt transport data analysis methods and form comprehensive traffic management systems.

\textbf{Water Resources Management}

You will develop skills and abilities to synthesise water and environmental engineering theories and apply them to solve practical cases, create and design water resources and quality management models, adapt hydro-environmental data analysis methods, integrate modelling technology and consolidate GIS applications in forming water management systems.

\textbf{Career opportunities}

Graduates may have opportunities for advancement within their existing careers or the ability to obtain positions with major national and international engineering employers.

\textbf{Entry requirements}

Applicants are required to have:

\begin{itemize}
  \item a completed four-year bachelor degree in civil engineering or a related discipline or a related discipline from a recognised higher education institution or equivalent, or
  \item a graduate certificate, or graduate diploma in civil engineering.
\end{itemize}

Applicants who have completed a bachelor degree in civil engineering or graduate certificate in civil engineering, may be eligible to enter the program with 0.5 EFTSL advanced standing and complete the program in one year of full-time study or equivalent part-time study. A related discipline may be other four-year duration engineering or science degrees depending on the specialisation selected.

Applicants who do not meet the standard entry requirements will be assessed on a case-by-case basis by the Program Director.

\textbf{Advanced standing}

Applicants may be eligible to enter the program with advanced standing and complete the requirements of the master in less than two years. Please see the entry requirements for further details.

\textbf{Exit point}

An exit point is available at the successful completion of the first year with a graduate diploma level qualification.

\begin{center}
\textbf{Indicative for Civil and Infrastructure Specialisation}
\end{center}

\begin{center}
\textbf{First Year}
\end{center}

Principles of Project Management
Geographical Information Systems and Analysis
Seminar in Sustainability
Research Theory and Practice
Civil Engineering Design Project
Elective 1

\begin{center}
\textbf{Second Year}
\end{center}

NBE Masters Thesis Part A
Research Data Analysis
Elective 3

NBE Masters Thesis Part B
Elective 4
Elective 5

\begin{center}
\textbf{Overview}
\end{center}

The Master of Engineering is a flexible qualification providing you with an advanced level of knowledge in areas relevant to the chosen specialisation.

\begin{center}
\textbf{Civil and Infrastructure}
\end{center}

This specialisation provides graduates and current practitioners with knowledge and skills in areas relevant to the structural and geotechnical sectors of civil engineering. Areas of study include transport, water resources, environmental management and structural engineering.

\begin{center}
\textbf{Improving the future of transport}
\end{center}

\begin{quote}
"I love the transport sector because it relates with many aspects of human activities. My country, Nigeria, relies heavily on private vehicle mobility than on public transportation. This has led to serious congestion, long travel times and environmental problems. The construction of our road networks is designed to cater mainly for vehicles with little or no provisions for pedestrian, there are no provisions for disabled persons. My particular goal is to get Nigeria’s transport system transformed into a multimodal system with efficient facilities for pedestrians including persons with a disability."

Bridget Damjor
Master of Engineering (Civil and Transport)
\end{quote}
Master of Engineering LMEB

Specialisations
> Autonomous Systems
> Engineering Management

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

ENTRY
SATAC (Autonomous Systems) 4CM123*
(Engineering Management) 4CM122*
Start date (SP=study period) SP2 SP5
Program fees CSP
CRICOS program code (Autonomous Systems) 080230A*
(Engineering Management) 077355C*

Key features
> Includes a practical, industry-relevant project in final year.
> Infused with the latest industry practices and research in the field.
> Opportunity to undertake thesis or research project in your area of interest.

Overview
The Master of Engineering provides you with the opportunity to gain expertise in the area of autonomous systems or engineering management. Offered in the form of a nested suite of three programs at postgraduate level (graduate certificate, graduate diploma and master), each qualification extends to the next, allowing you to easily transition to a master level qualification.

Autonomous Systems
Autonomous systems are a fusion of engineering systems, computational intelligence, sensing and communication software to create intelligent systems capable of interacting with the complexities of the real world. This specialisation blends the disciplines of mechanical, electrical, computing, and systems engineering. It is distinguished by its focus on systems integration, outdoor fieldwork and real-world application of the systems.

Engineering Management
You will gain knowledge and skills to develop a career in operations management, total quality management, supply chain management, enterprise resource planning, automation, or project management.

Career opportunities
Autonomous systems graduates can perform various functions including:
> developing, acquiring, managing or researching intelligent autonomous systems
> in sectors such as defence, aerospace, automotive, construction, energy, water, transportation, consumer electronics, information technology, telecommunications, mining and health care.

Engineering management graduates can pursue roles such as:
> factory operation manager
> engineering department manager
> quality assurance manager
> energy manager
> project manager
> and engineering business development managers.

Entry requirements
Applicants are required to have:
> a completed bachelor degree in engineering, science or technology from a recognised higher education institution; or
> a bachelor degree with honours, graduate certificate or graduate diploma in engineering from a recognised higher education institution.

Applicants who do not meet the above requirements may be eligible to enter the Graduate Certificate in Engineering Management based on an appropriate amount of professional experience.

INDICATIVE FOR AUTONOMOUS SYSTEMS SPECIALISATION
FIRST YEAR
Control Systems M
Autonomous Mechatronic Systems Engineering Research Practice
Digital Signal Processing
Advanced Control
Industrial Actuation and Automation
Machine Vision Systems
Systems Engineering
Robotics and Automation
SECOND YEAR
Project Planning and Formulation
Project Methodologies
Autonomous Systems Minor Thesis O
Autonomous Systems Minor Thesis A
Autonomous Systems Minor Thesis B

INDICATIVE FOR ENGINEERING MANAGEMENT SPECIALISATION
FIRST YEAR
Professional Engineering Practice E
Elective
Elective
Elective
Elective
Elective
Elective
Elective
Engineering Research Practice
Elective
Elective
SECOND YEAR
Engineering Economic Analysis
Enterprise Resource Planning Lean Six Sigma
Engineering Research Project 1 Oil
Minor Thesis 1 (Eng)
Supply Chain Management G
Operations Management Systems Engineering Research Project II Oil
Minor Thesis 2 (Eng)
ELECTIVES
Total Quality Management
Robotics and Automation
Energy and Society
Project Planning and Control G
Learning in the Workplace Project Sustainable Development and Design Practice
Procurement and Purchasing Management
Intelligent Production Systems
Master of Engineering LMEL

Specialisations
> Electrical Power
> Telecommunications

Key features
> Strongly supported by the University of South Australia’s telecommunications research environment.
> Designed to address state and national skills shortages in electrical engineering and engineering management.
> Flexibility in choice of first-year courses to help students develop broad engineering knowledge.

Overview
Offering two specialisations, this program provides graduates in information and communication technologies and electrical engineering disciplines with advanced theory, engineering practice and technologies.

Electrical Power
You will undertake advanced study in the theory and techniques related to electrical power systems including operation and control of modern power systems, renewable and distributed energy generation, and advanced modelling of electrical machines.

Telecommunications
You will study advanced topics in wireless and mobile communication systems, information theory and coding, and telecommunication networks.

Career opportunities
Electrical power graduates typically perform research, development and engineering tasks within the electrical power industry often working in:
> wind farms and solar
> power transmission
> power distribution, or
> in support of major consumers of electric energy within the manufacturing industry.

Telecommunications graduates usually work in research and development (equipment, solutions), network planning and provisioning, operations and more.

Recognising and rewarding achievement
With a desire to further her undergraduate qualification in electronics and communication, Shweta Rana turned to UniSA after hearing about our Institute of Telecommunications Research (ITR).

“ITR conducts research in the areas of high speed communication which I found quite interesting and I really wanted to do study further in communication area.”

Since commencing at UniSA, Shweta’s hard work has been recognised with the Engineering and the Environment International Postgraduate High Achiever Tuition Grant, valued at $4500.

Shweta Rana
Master of Engineering (Telecommunications)
Master of Information Technology LMIG

Specialisations:
> Business Information Systems
> Enterprise Management

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

**Entry**
SATAC: 4CM131*
Start date (SP=study period): SPS SPS
Program fees: A$23,200 pa
CRICOS program code: 081828G
(Enterprise Management) 081872C
*master program

**Key features**
> Flexible delivery options including online and face-to-face learning.
> Progress easily from graduate certificate, into the graduate diploma or master levels.
> Learn how to manage complex information systems projects in real-world organisational settings.

**Overview**
Organisations are increasingly reliant on digital capabilities. Those that capitalise on IT trends such as virtualisation, cloud computing and data analytics are able to maximise business value by streamlining operations, innovating and transforming business models and relationships.

This program prepares the next generation of enterprise IT managers to keep pace with IT developments, while supporting day-to-day operational management of infrastructure, applications, and staff.

Effective enterprise management enables businesses to navigate through this ever changing environment, positioning them well to take advantage of potential opportunities by aligning IT with core business processes and practices.

Enterprise Management
Enterprise Management offers an innovative cross-disciplinary structure, with courses in the disciplines of IT, information systems and management, and a range of electives allowing you to develop skills and expertise in an area of your choice. You will gain valuable practical experience through a capstone industry project in the final year. Enterprise management gives graduates from IT and non-IT backgrounds the knowledge and skills required for managing IT systems across a range of enterprises.

Business Information Systems*
Business information systems includes three industry placements, through which students develop an industry desired range of skills to bridge the gap between management and IT through planning, designing and implementing business information systems.

*There is no direct entry in to this specialisation. Students can apply to transfer in to it at the end of the first study period via a competitive selection process.

**Career opportunities**
This program provides a pathway into IT careers for graduates not already working in this field, and career advancement for IT professionals who are looking to further their careers by progressing into management roles.

**Entry requirements**
Direct entry is only available into the enterprise management specialisation of the program and applicants are required to have:
> a completed bachelor degree in any discipline from a recognised higher education institution or equivalent;
> a Graduate Diploma in Information Technology or equivalent from a recognised higher education institution, or
> a Graduate Certificate in Information Technology or equivalent from a recognised higher education institution.

Students seeking entry into the Business Information Systems specialisation may apply for transfer into the program following the completion of the first study period.

Note that transfer is a competitive process and will depend on:
> successful completion of the first study period with a credit average;
> submission and review of a formal application; and
> selection at an interview, with a panel including academic, industry and student representatives.

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Nina was initially drawn to UniSA for its unique “exposure to the real needs and requirements of business.” During her studies, Nina completed three paid internships which she found “extremely beneficial in terms of skill and confidence development.” Nina now works as a Consultant for Mega International Singapore.

Nina Hoang Nguyen Thuc Nga
Graduate, Master of Business Information Systems
Master of Data Science (LMDS)

Nested with: Graduate Diploma in Data Science (LGDS)
Graduate Certificate in Data Science (LCDS)

**ENTRY**

| SATAC | (Master) A4CM128 | (GradDip) A4CDI00 | (GradCert) A4CG07 |

**Start date** (SP=study period) SP2 SP5

**Program fees** $26,500 pa

**CRICOS program code**

| (Master) 07991G | (GradDip) 07991G | (GradCert) 07991J |

**Overview**

The Master of Data Science is designed to provide graduates with a coherent and in-depth knowledge of current techniques and research in data science, with a theme of applying this knowledge and research in the context of professional practice.

A recent McKinsey Global Institute report demonstrates the shortage of data scientists, projecting a 50 per cent gap between projected demand and supply by 2028. Demand for professionals with strong data management and analytic skills is expected to soar.

This program is offered in the form of a nested suite of three programs at postgraduate level (graduate certificate, graduate diploma and master). Each qualification extends to the next, allowing you to easily transition to a master level qualification.

**Career opportunities**

This program will enable you to analyse and visualise rich data sources from a wide range of business and organisational processes in order to analyse trends, uncover insights or generate new strategies. Graduates have opportunities in various fields within the private sector, government and non-profit organisations.

**FIRST YEAR**

Big Data Basics
Statistical Programming for Data Science

**TWO OF THE FOLLOWING FOUR COURSES:**

- Statistics for Data Science
- Probabilities and Data
- Relational Databases and Warehouses
- Business Intelligence and Analytics

- Predictive Analytics
- Unsupervised Methods in Analytics
- Data Science Professional Development 1

**SECOND YEAR**

Social Media Data Analytics
Customer Analytics in Large Organisations
Data Science Professional Development 2
Advanced Analytic Techniques 1
Advanced Analytic Techniques 2
Data Science Capstone Project

**Key features**

- Flexible delivery options including online and face-to-face learning.
- Designed in conjunction with industry including the Institute of Analytics Professionals of Australia and SAS.

**Entry requirements**

Applicants to the Master of Data Science will normally have:

- a bachelor degree in information technology, or
- a bachelor degree in mathematics, or
- the Graduate Certificate in Data Science, or,
- the Graduate Diploma in Data Science.

**Master of Information Management (DMIL)**

Specialisations:

> Library and Information Management
> Archives and Record Management

Nested with:

Graduate Certificate in Information Management (DCIL)
Graduate Diploma in Information Management (DGIL)

**ENTRY**

| SATAC | (Archives) A4CM135* | (Library) A4CM134* |

**Start date** (SP=study period) SP2 SP5

**Program fees** $26,500 pa

**CRICOS program code**

| (Archives) 081827G* | (Library) 081829F* |

**Overview**

Accredited by the Australian Library and Information Association this program offers you a learning environment informed by industry and relevant professional practice. The program incorporates the option to complete a minor thesis on a topic of choice. With successful completion of this program students may be eligible to apply for a PhD.

**Library and Information Management**

This specialisation integrates the knowledge and practical skills required for careers as librarians and knowledge and information management officers.

**Archives and Record Management**

This specialisation integrates the knowledge and practical skills required for careers as record managers, preservation managers and archivists as well as knowledge and information management officers.

**Entry requirements**

Applicants are required to have:

- a bachelor degree in any discipline from a recognised higher education institution, or
- a completed graduate diploma in information management.

Applicants who do not meet the above requirements may be eligible to enter the Graduate Certificate.
Contribute to your field

Make a lasting contribution to the body of knowledge in your field.

Research degrees are an advanced program of study that allow you to investigate a topic with relevance to your field. Under the supervision of world-class researchers you will investigate and apply advanced research methodologies to produce new knowledge and provide solutions to challenges within your discipline area.

unisa.edu.au/resdegrees

Qualifications include:

- Masters by Research: 2 years*
- Professional Doctorate: 4 years
- Doctor of Philosophy (PhD): 4 years*

* Study times are approximate and based on a full-time study load.
* In total including examination time. Students must be prepared to submit 3-6 months prior to official completion of their program.

Who is it for?

- Recent university graduates who have completed Honours or Masters by Research study (for PhD and Professional Doctorates)
- Qualified professionals seeking to make new advances and contribute to the body of knowledge in their field (for Masters by Research)

Find out more:

Entry requirements: see program for more information

unisa.edu.au/resdegrees-eligibility

How to apply:

unisa.edu.au/apply
Doctor of Philosophy **LPHD**

Masters by Research **LMIE**

**Key features**

- Work with world-class supervisors.
- Engage with industry, government, education providers and professionals to solve real-world problems.
- Dedicated support and services for research students.

**Overview**

A research degree with the Division of Information Technology, Engineering and the Environment will enable you to immerse yourself in a flourishing technology hub of theoretical, applied and cross-disciplinary research. Professional doctorates foster excellence in professional practice by developing the capacity of individuals to lead development of knowledge in their professional contexts. Our innovative research degree programs will provide you with advanced academic and professional research skills. A majority of these programs are offered at Mawson Lakes campus with some offered at City East campus.

**Doctor of Project Management (IPPJ)**

In addition to the project management specialisation of the Doctor of Philosophy (LPHD) program, the University also offers a separate Doctor of Project Management. The program is a rigorous program of advanced study and research, designed specifically to meet the needs of industry and professional groups.

**Discipline areas**

- Applied Physics
- Bioinformatics
- Biomaterials Engineering and Nanomedicine
- Computer and Information Science
- Construction Management
- Electrical and Information Engineering
- Energy and Advanced Manufacturing
- Engineering (Civil)
- Environmental Science
- Environmental Science and Engineering
- Geographic Information Science
- Mathematics
- Mechanical and Manufacturing Engineering
- Minerals and Resources
- Project Management
- Systems Engineering
- Statistics
- Urban and Regional Planning

**Entry requirements**

Minimum entry requirements to be considered eligible for entry into a research program at the University of South Australia:

- Honours 1, Honours 2A or an appropriate master degree or equivalent – eligible to be considered for admission into PhD, or Professional Doctorate.
- Bachelor degree – students with a relevant bachelor degree of at least three years with a minimum credit average are eligible to be considered for admission into Masters by Research.
- Other postgraduate and undergraduate degrees – eligible to be considered for admission into Masters by Research with the demonstration of research capabilities via an assessment of relevant quality publications and professional experience.
- No tertiary qualifications – eligible to be considered for admission into Masters by Research with the demonstration of research capabilities via an assessment of relevant quality publications and professional experience.

*Note: eligibility for entry into a research program is also subject to an assessment of the proposed research, the availability of a supervisor and any school or research-specific eligibility requirements.*
Study at UniSA – the basics

Minimum entry requirements for undergraduate bachelor degrees and associate degrees

Applying with Year 12
Applicants are required to have successfully completed the South Australian Certificate of Education (SACE) with:

> a competitive ATAR; and
> the fulfilment of the program’s prerequisite requirements (where applicable).

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

Bonus Points
Universities in South Australia offer bonus points to Australian high school students applying for entry into university via the following schemes:

> The Universities Equity Scheme – provides bonuses for students coming from specified schools, as well as individuals experiencing disadvantage.
> The Universities Language, Literacy and Mathematics Bonus Point Scheme – provides bonuses for students who successfully complete a language other than English, or specified English and Mathematics subjects.

Need some help? For further information, visit unisa.edu.au/bonuspoints or contact Future Student Enquiries by phone (08) 8302 2376 or submit an enquiry via unisa.edu.au/enquiry

UniSA Preferred
UniSA Preferred is a scheme that offers guaranteed entry into many UniSA programs for domestic Year 12, TAFE and other registered training organisation (RTO) students. If your ATAR (including any bonus points) or TAFE/RTO award meets the UniSA Preferred score for that program, you have met any prerequisites, and you have listed the program as your first preference, you are in. It’s guaranteed.

unisa.edu.au/pREFERRED

Alternative 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:

Tertiary Transfer – 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 the 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 employment experience may also be considered for some programs.

TAFE/Registered Training Organisations (RTO) – 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 Foundation Studies – completion of the Foundation Studies program (listed on each applicable bachelor program in this guide) offered by UniSA College.

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 programs.unisa.edu.au

Support and scholarships
UniSA offers services to assist rural and/or socio-economically disadvantaged students, Aboriginal and Torres Strait Islander people, and people with a disability. For more information, contact (08) 8302 2576 or visit

unisa.edu.au/future

How to apply to the University of South Australia
Applications to most programs at UniSA are administered through SATAC (South Australian Tertiary Admission Centre). For more information visit

unisa.edu.au/apply

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 2016 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>50 - $6,256</td>
</tr>
<tr>
<td>2</td>
<td>Computing, built environment, health, engineering, surveying, agriculture, Mathematics 1, statistics, science</td>
<td>50 - $8,917</td>
</tr>
<tr>
<td>3</td>
<td>Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce</td>
<td>50 - $10,440</td>
</tr>
</tbody>
</table>

Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying (the fees for these are listed on each applicable program in this guide). For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution through HECS-HELP, FEE-HELP loans, or fee information relating to international students please visit

unisa.edu.au/fees

For more information visit programs.unisa.edu.au/pathways

unisa.edu.au/apply

unisa.edu.au/preferred

unisa.edu.au/bonuspoints

unisa.edu.au/enquiry

unisa.edu.au/fees

unisa.edu.au/future

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unisa.edu.au/pathways

unisa.edu.au/fees
Welcome new students! O-Week kicks off at Magill campus

Our @SamstagMuseum listed as a top thing to do in #Adelaide in @nytimes ‘52 places to go in 2015’

#worldsbiggestbike
#bigbikechallenge #theydidit
#guinessworldrecord
#tourdownunder #teamunisa

@universitysa

Celebrating 25 years of success

The University of South Australia is celebrating its 25th birthday in 2016. We know it’s our people who make us great, and we’re celebrating with the faces of UniSA.

Our story began in 1991, when the colleges of advanced education, the schools of art and mining, and the institutes of technology came together to form South Australia’s newest university.

Since then, UniSA has graduated thousands of globally-capable professionals and built a research profile ranked eighth overall nationally*, and delivering solutions to some of the world’s greatest challenges.

Find out more about our people, history and future, as well as our birthday celebrations at unisa.edu.au/25years

*for proportion of total ERA 5 ratings (well above world class) at the 2-digit and 4-digit level
Keep informed and stay in touch

At UniSA, we’ve got all the tools to help you shape your career direction. Sign up to receive updates direct to your inbox. All tailored to your career interests.

You’ll be the first to receive:

> Invitations to career events and information sessions
> The chance to win work experience, a ‘Day in the life of a UniSA graduate’
> An insight into life on campus from students and teachers
> Updates on new degrees and entry requirements
> Scholarship opportunities
> The latest breaking careers and industry news

Sign up now at unisa.edu.au/mycareer

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Science and Environments