Engineering, IT and Mathematics

2016
Welcome

You are about to start on the greatest intellectual adventure you could possibly imagine and I’m delighted that you’re considering coming to study with us at the University of South Australia.

You’ll find that we are a university for the 21st century; we educate tomorrow’s professionals and conduct research to solve today’s challenges.

With a vibrant and diverse student body comprised of about 34,000 students, the University of South Australia is the State’s largest university. We offer more than 200 degree programs in business, education, arts, social sciences, health sciences, information technology, engineering and the environment.

We are South Australia’s leading university for graduate careers and are ranked first in the State for overall student satisfaction (2014 Good Universities Guide). Our reputation for excellence around the world also continues to grow as the youngest university in Australia ranked in both QS ‘Top Universities’ and Times Higher Education’s top 50 of world universities under 50 years old. QS also ranks UniSA in the top 10 of universities aged under 25.

Our reach extends into South Australian industry through more than 2000 connections including partnerships with Hewlett-Packard and Hills Ltd. It also extends across the globe through powerful partnerships with global universities Shandong, Tianjin and Beijing Normal Universities in China, Keio University in Japan, Trinity College in Dublin and numerous collaborative efforts with universities elsewhere in Europe and in 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 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

2015 Events

Open Day 2015
Sunday, 16 August, City West and City East campuses
▶ unisa.edu.au/openday

Switch On: Mawson Lakes
Thursday, 27 August, 4:00—7:00pm
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 for the first time. 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.

Contents

Australia’s university of enterprise ................................................................. 2
Transform your world .......................................................................................... 4
Pathways for your career in technology ............................................................ 8

Undergraduate ........................................................................................................ 10
Your future begins here

Bachelor of Mathematical Science ................................................................. 11
Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) ........................................... 11
Associate Degree in Engineering ...................................................................... 12
Bachelor of Engineering (Honours) (Civil) ....................................................... 12
Bachelor of Engineering (Honours) (Civil and Structural) ................................ 13
Bachelor of Engineering (Honours) (Electrical and Electronic) ..................... 14
Bachelor of Engineering (Honours) (Electrical and Mechatronic) ............... 14
Bachelor of Engineering (Honours) (Mechanical) ........................................... 15
Bachelor of Engineering (Honours) (Mechanical and Advanced Manufacturing) ........................................... 15
Bachelor of Engineering (Honours) (Mechanical and Mechatronic) ............. 16
Bachelor of Engineering (Honours) (Mechatronic) ........................................... 16
Bachelor of Information Technology ................................................................. 18
Bachelor of Information Technology (Games and Entertainment Design) ... 19
Bachelor of Information Technology (Mobile Application Development) ... 19
Bachelor of Information Technology (Networking and Cybersecurity) ....... 20
Bachelor of Information Technology (Software Development) .................... 20
Bachelor of Software Engineering (Honours) .................................................. 21
Bachelor of Information Technology (Honours) .............................................. 21
Bachelor of Information Technology (Honours) (Enterprise Business Solutions) ........................................... 22

Postgraduate ........................................................................................................ 24
Realise your potential

Master of Engineering (civil specialisations) ..................................................... 25
Master of Engineering (management specialisations) ..................................... 26
Master of Engineering (electrical specialisations) ........................................... 27
Master of Information Technology ................................................................. 28
Master of Data Science ...................................................................................... 29
Master of Information Management ............................................................... 29
Master of Data Science ...................................................................................... 29
Master of Information Management ............................................................... 29

Research ............................................................................................................... 30
Contribute to your field

Masters by Research, Doctor of Philosophy ..................................................... 30
Master of Engineering (Telecommunications), PhD (Telecommunications) ...................................................... 31
Master of Engineering (Minerals and Materials), PhD Engineering (Minerals and Materials) ................................................. 31

Study at UniSA – the basics .............................................................................. 32
Focused on the future

We’ve got some exciting plans for the future with new learning spaces in health, science and innovation – all in the heart of Adelaide’s booming West End.

> Jeffrey Smart Building (JSB): the JSB has quickly become our new student home. Based at the City West campus, you can borrow books, grab a coffee, charge your laptop, book a study room or even enjoy a free outdoor movie.

> Great Hall: the University is commencing construction on this brand-new space in 2015. Once complete, it will host graduation ceremonies, student sporting events, exhibitions, a gym, swimming pool and more.

> Sci | C | Ed: part of the University’s new Health Innovation Building (construction commencing in 2015), the Science | Creativity | Education Studio will provide a new space for students and industry to innovate, create and collaborate.
Australia’s university of enterprise

Study. Solutions. Connections.
We’ve prioritised the right elements to build an industry-connected, globally enterprising university.

**Study** Educating tomorrow’s professionals
With employment rates that exceed the state and national averages, our graduates will be front and centre as the leaders and innovators of tomorrow.

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

> 91 per cent of UniSA graduates going on to full-time work are employed in a professional occupation within four months of completing their degree. (*Graduate Destination Survey*)

**Solutions** End-user focused research
We are a solutions-oriented university, taking on the challenges of the future and aligning our research towards providing answers in these areas.

> **Australia’s leading university for interdisciplinary research.** (*U-Multirank 2015*)

**Connections** Partnering with industry
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.

> **Collaborating with more than 2000 companies worldwide.**
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](http://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](http://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 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](http://unisa.edu.au/it)

**NEW - 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](http://unisa.edu.au/WISE)
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

Division of Information Technology, Engineering and the Environment

We are the only South Australian university in the 2014 Times Higher Education World University Rankings for Engineering and Technology.

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

> Science
> Aviation
> Project management
A UNIQUE IT DEGREE WITH A PAID INTERNSHIP

INDUSTRY EXPERIENCE

ENGINEERING

CIVIL ENGINEERING

IN AUSTRALIA FOR STUDENT SATISFACTION

MyUniversity 2014

3rd

AN AUSTRALIAN FIRST

UniSA AND HP PARTNERSHIP

A UNIQUE IT DEGREE WITH A PAID INTERNSHIP

A STRONG FOUNDATION:

COMMON CORE COURSES IN ALL ENGINEERING & IT DEGREES
Engineering a smart career

The top five reasons you need to study engineering, IT and mathematics at UniSA.
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
   - Passes in Year 11 Maths and Science

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
   - Note: Not applicable for entry into Civil streams

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

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**Bachelor of Engineering Degree (Hons)**

1. **YEAR 1**
   - Year 1 Foundation

2. **YEAR 2**
   - Year 1 Associate Degree in Engineering

3. **YEAR 3**
   - Year 2 Associate Degree in Engineering

4. **YEAR 4**
   - Year 1 SAIBT Diploma of Technology (Engineering and Environment)
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

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

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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 on 17 January 2015.
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**

<table>
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<th>Preferred score (guaranteed entry)</th>
<th>TAFE minimum entry</th>
<th>CRICOS program code</th>
<th>Prerequisites</th>
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<td>85</td>
<td>082983K</td>
<td>Mathematical Studies</td>
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</table>

**Key features**

> Create innovative mathematical solutions to real-world challenges.
> International experiences available through the exchange program.
> Hypatia and SA Water scholarships available for mathematically-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 (eg 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 (left).

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

<table>
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<th>ENTRY</th>
<th>SATAC</th>
<th>CRICOS program code</th>
<th>ATAR</th>
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<th>TAFE minimum entry</th>
<th>Assumed knowledge</th>
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<td>97.65</td>
<td>85</td>
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</tbody>
</table>

**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 a high level of performance in their undergraduate studies.

**UnISA College pathways**

Pathways into this program are available through the following UnISA College program:

> Foundation Studies

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**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 have successfully completed 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](http://unisa.edu.au/become-a-teacher)

*subject to meeting GPA requirements and subject selection
Associate Degree in Engineering LTEN

**ENTRY**
SATAC 435021
ATAR (Feb 2018 cut-off) 60.5
Preferred score (guaranteed entry) n/a
TAFE minimum entry - CertIV
CRICOS program code 066197C
Prerequisites none
Assumed knowledge none

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

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

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Bachelor of Engineering (Honours) (Civil) LHMI

**ENTRY**
SATAC 430481
ATAR (Feb 2018 cut-off) 70.05
Preferred score (guaranteed entry) 80
TAFE minimum entry - CertIV
CRICOS program code 08180BM
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.

**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 [washingtonaccord.org](http://washingtonaccord.org) and [engineersaustralia.org.au](http://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 (Civil) (LMCV), 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 2015 cut-off): 81.25
- TAFE minimum entry: CentIV
- 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.

**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. Such accreditation is provisional until the program produces its first graduates.

**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

**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 (Civil) (LMCV), which can be completed with an additional year of full-time study. For more information on this program please see page 25.

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**Award-winning TEACHING STAFF**

Program director and lecturer in civil engineering, Ms Elizabeth Smith received a national citation for "outstanding contributions to student learning" by the Commonwealth Government’s Office in the area of Learning and Teaching (OLT) for 2014.
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. Such accreditation is provisional until the program produces its first graduates.

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

ENTRY
SATAC 434451
ATAR (Feb 2018 cut-off) 70.35
Preferred score for guaranteed entry 80
TAFE minimum entry CertIV
CRICOS program code 08181E
Prerequisites Mathematical Studies Assumed knowledge Physics

Key features
- Access first class facilities including the Engineering Mechatronics Lab and Experience One Studio.
- 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 (LME), 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
This program is professionally accredited by Engineers Australia and is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions.

Pathways
Alternative entry pathways into this program are available. Please see page 2 for more information.

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 and 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 (LME), either Electrical Power or Telecommunications specialisation. Depending on the specialisation profile, 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 2015 cut-off)** 73.7

**Preferred score (guaranteed entry)** 80

**TAFE minimum entry** CertIV

**CRICOS program code** 08184M

**Prerequisites** 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.
- Gain a strong foundation of engineering knowledge through specially designed core courses common to all UniSA engineering degrees.

**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.

**Professional accreditation**

This program is professionally accredited by Engineers Australia and is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions.

**Pathways**

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

**FIRST YEAR**

- **Computer Techniques**
- **Engineering Materials**
- **Mathematical Methods for Engineers 1**
- **Sustainable Engineering Practice**

**SECOND YEAR**

- **Mechanics of Materials**
- **Engineering Modelling**
- **Manufacturing Processes**
- **Mechanical Engineering Practice N**
- **Engineering Dynamics**
- **Mechanical Design Practice**
- **Fluid and Energy Engineering Practice**
- **Industrial Experience**

**THIRD YEAR**

- **Energy Conversion and Management**
- **Professional Engineering Practice E**
- **Computer Aided Engineering Practice**
- **Methods of Applied Mathematics 1**
- **Design in Plastics and Advanced Composites**
- **Mechanics of Machines**
- **Operations and Project Management for Engineers**
- **Fluid and Energy Management Practice**
- **Industrial Experience**

**FOURTH YEAR**

- **Sustainable Energy System Design**
- **Mechanical Vibration Analysis**
- **Engineering Research Practice**
- **Engineering Research Project 1**
- **Design for Manufacture and Assembly**
- **Sustainable Development and Design Practice**
- **Engineering Honours Project 2**

**FOURTH YEAR (WITH INTERNSHIP)**

- **Engineering Research Practice**
- **Engineering Internship Research Project**
- **Industrial Automation and Automation**
- **Machine Vision Systems**
- **Supply Chain Management C**
- **Operations Management Systems**

**Further study**

On completion of your degree you may apply for entry to the Master of Engineering (Engineering Management) (LMEB). 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 2015 cut-off)** 77.9

**Preferred score (guaranteed entry)** 80

**TAFE minimum entry** CertIV

**CRICOS program code** 081814B

**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.

**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 Maswon 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**

This program is professionally accredited by Engineers Australia and is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions.

**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). 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 2018 cut-off) 76.45
Preferred score (guaranteed entry) 80
TAFE minimum entry Cert IV
CRICOS program code 081815A
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.

**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**
This program is professionally accredited by Engineers Australia and is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions.

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

**FIRST YEAR**
- Computer Techniques
- Engineering Materials
- Mathematical Methods for Engineers 1
- Sustainable Engineering Practice
- Electricity and Electronics
- Engineering Design and Innovation
- Mathematical Methods for Engineers 2
- Engineering Mechanics

**SECOND YEAR**
- Mechanics of Materials
- Methods of Applied Mathematics 1
- Introduction to Computer Systems
- Mechanical Engineering Practice N
- Engineering Dynamics
- Mechanical Design Practice
- Fluid and Energy Engineering
- Elective

**THIRD YEAR**
- Programming for Engineers
- Professional Engineering Practice P
- Control Systems
- Electromechanics
- Advanced Control
- Mechanics of Machines
- Fluid and Energy Management Practice
- Mechatronic System Integration
- Industrial Experience

**FOURTH YEAR**
- Autonomous Mechatronic Systems
- Computer Aided Engineering Practice
- Engineering Research Practice
- Engineering Honours Project 1
- Machine Vision Systems
- Industrial Actuation and Automation
- Engineering Honours Project 2

**Further study**
On completion of your degree you may apply for entry to the Master of Engineering (Engineering Management) (LMEB). 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.

**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 visit washingtonaccord.org and engineersaustralia.org.au. Such accreditation is provisional until the program produces its first graduates.

**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). 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.

 Bachelor of Engineering (Honours) (Mechatronic) LHEG

**ENTRY**
SATAC 434031
ATAR (Feb 2018 cut-off) 90
Preferred score (guaranteed entry) 80
TAFE minimum entry Cert IV
CRICOS program code 081817K
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 visit washingtonaccord.org and engineersaustralia.org.au. Such accreditation is provisional until the program produces its first graduates.

**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). 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.
Engineering experience provides insight into local and international industries

Jack Baker
Student, Bachelor of Engineering (Mechanical and Mechatronic)

Jack Baker embraces opportunities to get hands-on experience, which is why he chose to take up an engineering degree at UniSA. ‘The University of South Australia had the largest practical element of any of the South Australian universities, and to me this was very important as engineering is a very practical based discipline,’ Jack said.

In 2012, Jack undertook a Cooperative Student Placement at GM Holden’s Assembly Operations in Elizabeth. ‘I worked with the Future Model team and prepared the plant to build the VF Commodore. Then in late 2013, Jack undertook a summer internship program at the Australian Submarine Corporation (ASC) in Osborne. ‘Being able to go on-board the submarines and work on mechanical projects was really interesting,’ Jack said.

Earlier this year, Jack travelled to Japan on a five-month internship at Japan Display Inc. ‘The life experience I gained from living in a country with such a different culture and language was something I could never have obtained in Australia.’
Bachelor of Information Technology LBCP

ENTRY
SATACTM 434041
ATAR (Feb 2015 cut-off) 66.1
Preferred score (guaranteed entry) 70
TAFE minimum entry CertIV
CRICOS program code 024199D
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.

Overview
This ‘all-round’ degree provides graduates with endless professional careers in the information technology sector. Well-trained professionals are in high demand, particularly in the areas of business, defence, mining, application and software development. You will have the freedom to select two IT minors or one IT minor as well as a minor from a different discipline, which diversifies your skill set and enhances employability in areas such as business, healthcare or education.
You will be exposed to real-world applications and the latest research developments and technologies through industry placements, internships and research projects with industry partners, providing you with greater employment prospects after graduation.

Career opportunities
IT professionals have skills to provide services to a wide range of organisations performing a number of roles. Some of these include:
> technical development manager
> data modeller
> web developer
> testing manager
> database administrator
> account manager
> PC support
> programmer.

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.

Game on for UniSA students
Michael Ulpen
Graduate, Bachelor of Information Technology (Games and Entertainment)

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.
Bachelor of Information Technology (Games and Entertainment Design) LBCP

**ENTRY**

SATAR | 434881
--- | ---
ATAR (Feb 2015 cut-off) | 60.55
Preferred score (guaranteed entry) | 70
TAFE minimum entry | 70
CRICOS program code | 067898K
Prerequisites | none
Assumed knowledge | none

**FIRST YEAR**

Network Fundamentals
Problem Solving and Programming
Design Thinking and Artificial Intelligence
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

**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.

**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.

**Overview**

The emergence of computer and software applications in games and entertainment generated great demand for specially trained IT professionals who could develop and execute exciting applications across various modern platforms in the entertainment industry. Some of these include:

- multimedia specialist
- web developer
- graphics designer
- programmer
- IT specialist
- animator
- game designer.

**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:

- movie special effects artist
- 3D animator
- game designer
- web developer
- audio producer
- IT specialist
- IT manager
- computer games and animation specialisation.

**Professional accreditation**

This program is professionally accredited by the Australian Computer Society.

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Bachelor of Information Technology (Mobile Application Development) LBCP

**ENTRY**

SATAR | 434091
--- | ---
ATAR (Feb 2015 cut-off) | 72.5
Preferred score (guaranteed entry) | 70
TAFE minimum entry | 70
CRICOS program code | 08333E
Prerequisites | none
Assumed knowledge | none

**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**

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

**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.

**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.

**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.

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### Key features

- Train using the latest industry tools and work practices and access first-class 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

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 infrastructures in small to large businesses. You will also acquire the skills to support a network roll-out and the maintenance of infrastructure, while gaining an understanding of networking 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.

### 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.

### 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.

### Career opportunities

Some of the careers you will be prepared for include:
- software architect
- software developer
- testing manager
- release manager
- sales consultant
- quality manager
- trainer
- application architecture
- strategic planner
- software engineer
- programmer.
Bachelor of Software Engineering (Honours) LHSG

**ENTRY**
- SATAC: 434211
- ATAR (Feb 2018 cut-off): 66
- CRICOS program code: 081819G
- 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: 024200E
- *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.

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

Bachelor of Information Technology (Honours) (Enterprise Business Solutions) LHI

ENTRY
SATAcademia 434121
ATAR (Feb 2018 cut-off) 79.8
Preferred score (guaranteed entry) n/a
TAFE minimum entry n/a
Prerequisites none
Assumed knowledge none

Key features
> An Australian first – UniSA and HP partnership.
> A paid, 12-month internship built into your degree.
> Add major industry players such as HP 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, 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 and develop specialist knowledge in either software application or infrastructure services. 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
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
Securing success in students’ IT start-up

Emily Rich
Student, Bachelor of Information Technology (Networking and Security)

From tackling retail crime to using a mobile app to collect and securely store evidence, two of the University of South Australia’s students are turning their innovative ideas into cutting-edge business projects, securing start-up funding of up to $50,000 each.

Information technology students Jordan Green and Emily Rich are pleased to have received the five-figure sum towards their start-up business named Jemsoft. ‘Jemsoft’s product is a patented intelligent security solution incorporating hardware and software component for high risk retail locations. The system is a small unit that uses real-time analysis of customers approaching a store to mitigate the risk of armed hold-ups,’ Emily says.

‘It works by making an evaluation on whether or not the individual approaching represents a threat using proprietary algorithms utilising computer vision. If so, the doors are locked until the visual cues that represent a threat are removed. As the system does not store data it does not impose privacy concerns.’
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.

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

**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

**How to apply**:

[unisa.edu.au/apply](http://unisa.edu.au/apply)
Master of Engineering LMCV

Specialisations
> Civil
> Civil and Transport
> Civil and Water Resources Management

**ENTRY**

SATA: (Civil) 4CM109  
(Civil and Transport) 4CM125  
(Civil and Water Resources Management) 4CM124

Start date (SP=study period) SP2 SP5

Program fees: CSP CRICOS program code: (Civil) 07488BOF  
(Civil and Transport) 080233J  
(Civil and Water Resources Management) 080222K  
*master program

**Key features**

> External and part-time study available.
> Flexible program with a range of electives available.
> Industry-based civil engineering project provides real-world experience.
> Supported by the International Centre of Excellence in Water Resources Management (ICEWARM).

**Overview**

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

**Civil**

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.

**Civil and 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.

**Civil and 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.

**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.

**Alternative pathway**

We also offer the Graduate Certificate in Engineering (Civil) which can be taken in six months full-time or the part-time equivalent. Successful completion of the graduate certificate provides a pathway for entry in to the master program.

**Entry requirements**

Applicants are required to have:
> a completed four-year bachelor degree with Honours in civil engineering or related discipline from a recognised higher education institution; or
> a completed graduate certificate in civil engineering or related discipline from a recognised higher education institution.

Applicants who hold a degree in mechanical, mining or environmental engineering may also be eligible and will be assessed on a case-by-case basis.

**INDICATIVE FOR CIVIL SPECIALISATION**

**FIRST YEAR**

Advanced Concrete Structures  
Elective 1  
Elective 2  
Elective 3

Advanced Geotechnical Engineering  
Elective 4

**Civil Engineering Research Project**

**ELECTIVES**

Research Data Analysis  
Transport Policy  
Case Studies in Transport  
Road Safety Engineering  
Traffic Engineering  
Transport, Land Use and Environment  
Transport Modelling  
Water Quality Processes  
Design of Flood and Drainage Systems  
Water Quality Modelling  
Water Quality Management  
Sustainable Irrigation Management  
Environmental Impact Assessment  
Advanced Steel Structures  
Structural Dynamics and Seismic Design  
Advanced Composite Structures  
Surface Water Hydrology  
Spatial Analysis and Modelling

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**A well-constructed career**

**Alejandro Ibarra Valenzuela**

Graduate, Master of Engineering (Civil)

Originating from Mexico, Master of Engineering (Civil) student Alejandro Ibarra Valenzuela came across UniSA by researching his options online. ‘I did some research and UniSA looked good. When I came to Australia I saw that everything was as good as I’d heard, so I’m really happy to be here.’

When asked what Alejandro liked most about his degree, he said ‘getting to know good people, a lot from other countries, good teaching and very good staff. My teachers know a lot in their teaching areas.’

Alejandro, whose studies focus on ‘the structures of buildings, design capabilities and strength of various forms of construction’, was awarded a scholarship for his outstanding performance. Following graduation, Alejandro plans to take his newly-acquired knowledge back to Mexico.
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)

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
Principles of Systems Engineering
Robotics and Automation

SECOND YEAR
Project Planning and Formulation
Machine Management
Autonomous Systems Minor Thesis
Autonomous Systems Minor Thesis A
Autonomous Systems Minor Thesis B

INDICATIVE FOR ENGINEERING MANAGEMENT SPECIALISATION

FIRST YEAR
CORE COURSE
Total Quality Management
FOUNDATION COURSE
Project Planning and Control G
ELECTIVE COURSES
Energy and Society
Intelligent Production Systems
CORE COURSE
Learning in the Workplace Project
FOUNDATION COURSE
Professional Engineering Practice E
ELECTIVE COURSES
Engineering Research Practice
Robotics and Automation
Sustainable Development and Design Practice

SECOND YEAR
Lean Six Sigma
Engineering Economic Analysis
Enterprise Resource Planning
Engineering Research Project I
Supply Chain Management C
Operations Management Systems
Engineering Research Project II
Master of Engineering LMEL

Specialisations
> Electrical Power
> Telecommunications

INDICATIVE FOR ELECTRICAL POWER SPECIALISATION

ENTRY

| SATAC  | (Electrical Power) 4CM126  
| (Telecommunications) 4CM127  |
| Start date (Post study period) | SP2 SP5  |
| Program fees | CSP  |
| CRICOS program code | (Electrical Power) O7990BC  
| (Telecommunications) O79909B  |

*master program

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 telecommunications 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.

INDICATIVE FOR ELECTRICAL POWER SPECIALISATION

FIRST YEAR

CORE COURSES
Renewable Energy Systems UG
Power System Analysis
Engineering Research Practice

ELECTIVE COURSES
(SELECT 5 COURSES)

ELECTRICAL POWER 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

ELECTRICAL ENGINEERING COURSES
Autonomous Mechatronic Systems
Linear Electronic Circuits
Advanced Control
Principles of Test and Evaluation N
Energy and Society

SECOND YEAR

SELECT ONE OF
Engineering Economic Analysis OR Engineering Management

CORE COURSES
Renewable and Distributed Power Generation
Advanced Electrical Machines
Advanced Power System Modelling and Analysis
Engineering Minor Thesis 1
Engineering Minor Thesis 2

Exit points
An exit point is available at the successful completion of the first semester of the program with a graduate certificate level qualification. A second exit point is available at the successful completion of the first year with a graduate diploma level qualification.

Entry requirements
Applicants would normally have completed a bachelor degree in electrical engineering or other relevant discipline, or equivalent qualification. Entry is competitive and experience in engineering and information technology, as well as completion of professional qualifications will be considered.

Engineering successful management

Emilio De Stefano
Graduate, Bachelor of Engineering (Electrical and Mechatronic Engineering), Bachelor of Management double degree, and the Master of Engineering (Military Systems Integration)

Emilio’s diligence throughout his study saw him granted five awards and scholarships including entry into the Golden Key International Honour Society, a prestigious and invite-only group of high achieving students.

As an undergraduate student, Emilio undertook two, three-month blocks of work experience for Tenix Defence. ‘This not only strengthened my desire to continue with my studies but also verified that a career in defence was something keeping me busy.’

Now employed as a general manager at Smart Fabrication, Emilio says he is constantly rewarded by the work he achieves. ‘I manage and oversee people, strategy, finances, infrastructure, clients, suppliers, quality, production and more, so there’s always something keeping me busy.’

Emilio finds his work very rewarding: ‘I get to meet so many interesting people, see some amazing things and have rare opportunities such as studying at the Stanford Graduate School of Business in the USA,’ Emilio says.
Master of Information Technology LMIG

Specialisations:
> Business Information Systems
> Enterprise Management

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

**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.

**Nina Hoang Nguyen Thuc Nga**
Graduate, Master of Business Information Systems

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.
Master of Data Science (LMDS)

Nestled with:

Graduate Diploma in Data Science (LCDS)
Graduate Certificate in Data Science (LCDS)

Program fees
Start date
CRICOS program code

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.

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 30 per cent gap between projected demand and supply by 2018. 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

Entry requirements

Applicants to the Master of Data Science will normally have:
> a bachelor degree in information technology, or
> a bachelor degree in mathematics.

Applicants from other fields are also invited to apply and will be considered on a case-by-case basis.

Master of Information Management (DMIL)

Specialisations:

> Library and Information Management
> Archives and Record Management

Nestled with:

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

Program fees
Start date
CRICOS program code

Key features

> The only program of its kind in South Australia.
> Highly practical program with study available online or on campus.
> Experiential learning through a practical fieldwork project and a four-week placement.

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

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 such as records managers, preservation managers and archivists as well as knowledge and information management officers.

Career opportunities

Depending on the specialisation, you may find employment in positions such as:
> librarian
> records manager

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, or
> a completed graduate certificate in information management equivalent, with a grade point average (GPA) of 4.0 or above from a recognised higher education institution.

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

PhD (Telecommunications) (LPRI)
Master of Engineering (Telecommunications) (LMRI)

Overview
PhD programs offered in the telecommunications research area provide training and education aimed at producing graduates with the capacity to conduct original and high-quality research independently. By the end of the program, the PhD student would have prepared a substantial piece of work which represents a significant contribution to a particular field of study.

Discipline areas
> Satellite Communications
> High Speed Data Communications
> Flexible Radios and Networks
> Computational and Theoretical Neuroscience Laboratory

PhD Engineering (Minerals and Materials) (LPRT)
Master of Engineering (Minerals and Materials) (LMRT)

Overview
Enrolling in a materials and minerals research program will make you part of a world-class and multi-disciplinary team which is highly regarded internationally for excellence in research and research education. Staff and students work in modern, purpose-built research facilities and have access to an extensive range of state-of-the-art instrumentation.

Discipline areas
> Bio and Polymer Interfaces
> Colloids and Nanostructures
> Mineral Processing

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, or, PhD or Professional Doctorate 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 one of the following:
> Completed an interstate or overseas qualification considered by the University as equivalent to SACE.
> Completed 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:
> SA Universities Equity Scheme – provides bonuses for students coming from specified schools, as well as individuals experiencing disadvantage.
> SA 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.

Support and scholarships
UniSA offers services to assist rural and/or socio-economically disadvantaged students, Indigenous Australians and people with a disability. For more information, contact (08) 8302 2376 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 2015 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>$0 - $6,152</td>
</tr>
<tr>
<td>2</td>
<td>Computing, built environment, health, engineering, surveying, agriculture, Mathematics 1, statistics, science</td>
<td>$0 - $8,768</td>
</tr>
<tr>
<td>3</td>
<td>Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce</td>
<td>$0 - $10,226</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

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/future

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. For more information visit saibt.sa.edu.au

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.

uniSA.edu.au/pathways

uniSA.edu.au/preferred

uniSA.edu.au/future

uniSA.edu.au/apply

uniSA.edu.au/fees

uniSA.edu.au/future

uniSA.edu.au/bonuspoints

uniSA.edu.au/enquiry
SA Language, Literacy and Mathematics Bonus Point Scheme

Schools and universities in South Australia offer bonus points to Australian high school students applying for entry into university via the following pathways:

**UniSA Preferred**

- Applicants must have successfully completed the South Australian Certificate of Education (SACE) with a competitive ATAR and one of the following.

  - The fulfilment of the program's prerequisite requirements.
  - A competitive ATAR; and
  - A personal competencies statement or employment experience, where applicable.

Applicants are required to have successfully completed the South Australian Certificate of Education (SACE) with a minimum score of 24 points.

**Alternative pathways**

UniSA offers a range of alternative pathways into its undergraduate programs, which are outlined in this guide. Applicants must meet the minimum requirements to apply for entry (via competitive selection) through one of the following pathways:

- Applicants may be eligible to compete for entry if they have completed the International Baccalaureate Diploma with a minimum score of 24 points.
- Applicants may also be considered for entry if they have completed an interstate or overseas qualification considered by the University as equivalent to SACE.
- Applicants may also be eligible for entry with the completion of an award from TAFE or another Registered Training Organisation at AQF Certificate IV or above.
- Applicants may also be considered for some programs.

**Open Universities Australia**

- Applicants may be eligible for entry if they have completed at least half a year of full-time Tertiary Transfer study, at UniSA or a recognised higher education institution.
- Applicants may be eligible if they have completed at least four Open Universities Australia (OUA) courses at an undergraduate level or higher.
- Applicants may be eligible if they have completed the Foundation Studies program (listed on each applicable bachelor program in this guide).
- Applicants may be eligible if they have completed the Higher Education Diploma – completion of at least one year of full-time study at UniSA or a recognised higher education institution. For more information visit unisa.edu.au/pathways.
- Applicants may be eligible if they have completed the International Baccalaureate Diploma with a minimum score of 24 points.
- Applicants may be eligible if they have completed at least half a year of full-time study at a recognised higher education institution, at UniSA or another University.
- Applicants may be eligible if they have completed at least one program as your first preference, you are in. It's guaranteed.
- Applicants may be eligible if they have met any prerequisites, and you have listed the points) or TAFE/RTO award meets the UniSA Preferred score for that program. For more information visit unisa.edu.au/preferred.

**Fees**

All domestic undergraduate students at the University of South Australia are eligible to defer their student contribution through HECS-HELP, FEE-HELP, Commonwealth-supported places, or fee information relating to international students please visit unisa.edu.au/fees.

**Support and scholarships**

UniSA offers services to assist rural and/or socio-economically disadvantaged students, Indigenous Australians and people with a disability. For more information, contact (08) 8302 2376 or visit unisa.edu.au/support.

**Study at UniSA – the basics**

- Connect with UniSA
- Our presence spans the social media landscape, making connecting with us easier than ever before.

Facebook

facebook.com/UniSA
facebook.com/UniSACityEast
facebook.com/UniSACityWest
facebook.com/UniSAMagillCampus
facebook.com/UniSAMawsonLakes

Twitter

twitter.com/UniversitySA
twitter.com/UniSAnewsroom

Youtube

youtube.com/unisouthaustralia

Instagram

instagram.com/universitysa

Linkedin

linkedin.com/company/university-of-south-australia

Our @SamstagMuseum listed as a top thing to do in #Adelaide in @nytimesthings '52 places to go in 2015'

Welcome new students! O-Week kicks off at Magill campus

University of South Australia
February 24 at 11:08am

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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