



UniSA

## Civil Aviation

- Applied Science
- Graduate Diploma in Aviation



2012

## Why study Civil Aviation at UniSA?

- » We offer SA's only Bachelor degree in Civil Aviation. Based at Mawson Lakes campus, students are in close proximity to Parafield Airport.
- » Nothing beats hands-on experience. Students fly with shark patrols in summer and gain a valuable first look into the reality of commercial operations. Aviation Academy instructors are skilled experts with industry experience.
- » Our students fly in style. Aviation students are able to complete their flying hours with UniSA's new fleet of Cessna 172S.

# Contents

Why Study Civil Aviation at UniSA?	2
Bachelor of Applied Science (Civil Aviation)	4
Graduate Diploma in Aviation	6
Entry Requirements	8

The recent Excellence in Research Australia (ERA) awards recognised UniSA's **Division of Information Technology, Engineering and the Environment** with world-class rankings for leading research in the areas of Mathematical Sciences, Pure Mathematics, Applied Mathematics, Chemical Sciences, Physical Chemistry (Including Structural), Environmental Sciences, Environmental Science and Management, Engineering, Chemical Engineering, Civil Engineering, Electrical and Electronic Engineering, Materials Engineering, Resources Engineering and Extractive Metallurgy and Urban and Regional Planning.

# Welcome



The University of South Australia is a university of first choice for career-focused achievers. We provide the widest range of degree programs in South Australia and have a reputation for excellence in our four faculty divisions. At the University of South Australia, some of the world's

brightest minds teach and research in the areas of business, education, arts and social sciences, health sciences and information technology, engineering and the environment.

In the 2010 QS World University rankings, the University of South Australia recorded the biggest increase for an Australian university and we are now in the top 3 per cent of more than 10,000 universities in the world.

The quality of our teaching is regularly recognised by awards such as Citations for Outstanding Contributions to Student Learning, and two of our academics have won the nation's highest honour for university teachers, the Prime Minister's Award for University Teacher of the Year.

It's that quality teaching that helps our graduates in their careers; in 2010 almost 80 per cent of the University's domestic bachelor graduates secured full-time employment, which is above the national average.

Besides providing a high-quality teaching environment, the University of South Australia is a research leader. Our research institutes address research questions in a range of priority areas, including community sustainability, population health, defence and security, minerals science and business.

We have recently had proof that we are on the right track. The first Excellence in Research for Australia assessment – an official national evaluation of the quality of research – showed that 70 per cent of our assessed research is of world-class standard and in several areas we have built research that is performing well above world-class levels. The University's research informs our teaching and learning activities.

As a student at the University of South Australia you will have a world of opportunities open to you: you will be able to develop a capacity for critical and independent thinking; learn the value of research; develop the most up-to-the-minute knowledge of your chosen profession and learn the essential skills in communication and teamwork that will help you forge a successful career.

I wish you luck in all your academic endeavours.

Professor Peter Høj

Vice Chancellor and President

## Civil Aviation

An exciting and rewarding career in commercial aviation could be yours. UniSA's Bachelor of Applied Science (Civil Aviation), is recognised for producing skilled and confident graduates, will provide you with the knowledge and understanding required to be a professional pilot.

For more information please visit: [unisa.edu.au/aviation](http://unisa.edu.au/aviation)

# Why Study Civil Aviation at UniSA?

The UniSA Aviation Academy is located approximately 13 km north of the City of Adelaide at the Parafield Airport, adjacent to the Mawson Lakes campus.

Flying training is undertaken at the UniSA Aviation Academy which is equipped with modern lecture and briefing rooms. The academy also has electronic links with the Civil Aviation Safety Authority's information service, enabling you to submit flight plans and access the latest aerodrome alerts and weather forecasts.

The UniSA Aviation Academy program not only produces graduates with excellent flying abilities but provides extensive training in the attitudes and disciplines required for future career development so that you can one day rise to the position of airline Captain.

## Graduate Diploma in Aviation

This program aims to help UniSA Civil Aviation students

obtain a commercial pilot licence and multi-engine command instrument rating both of which are professional qualifications recognised by the Civil Aviation Safety Authority (CASA) and the International Civil Aviation Organisation.

You'll use state-of-the-art equipment including glass panel aircraft and a modern simulator, as well as software tools similar to those currently used by the aviation industry.

Eligible domestic students undertaking UniSA's Graduate Diploma in Aviation may choose to defer their tuition fees by taking out a FEE-HELP loan under the Federal (Australian) Government's Higher Education Loan Program (HELP).

Enrolment is subject to Program Director approval. This program is not available to international students.

## Scholarships and Awards

Our scholarships offer financial assistance and, in many instances, valuable work experience opportunities which often lead to employment.

New scholarships are constantly being developed so we recommend you regularly visit [unisa.edu.au/scholarship](http://unisa.edu.au/scholarship)

## Global Experience

UniSA's Global Experience program is available to all undergraduate students enrolled at UniSA and counts towards your degree. Expand your knowledge through networks,

workshops and a range of activities including volunteering, language studies, mentoring and going on exchange. For more information please visit: [unisa.edu.au/globalexperience](http://unisa.edu.au/globalexperience)

## Student Exchange

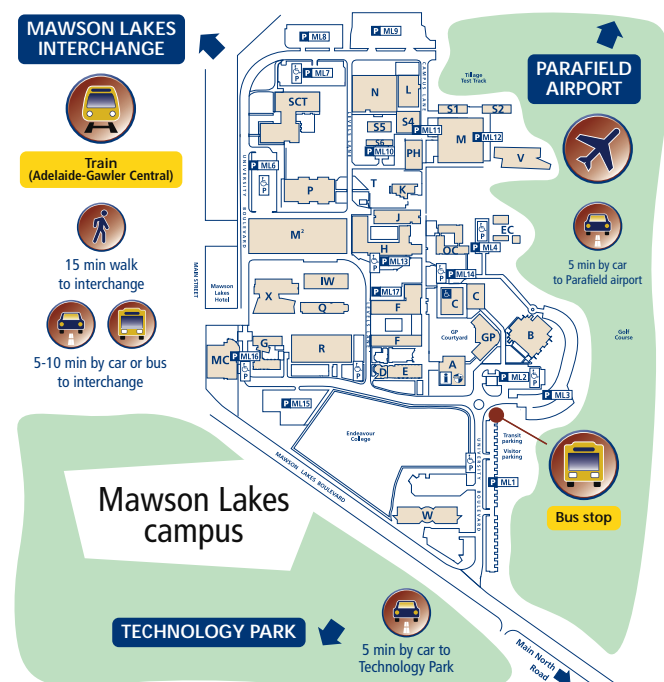
Going on exchange contributes to students' personal and academic development and is considered favourably by many employers. UniSA provides scholarships of at least \$2500 for eligible students to take up exchange opportunities. For more information please visit [unisa.edu.au/exchange](http://unisa.edu.au/exchange)

## Mawson Lakes campus

Mawson Lakes campus is part of the flourishing technology hub of the Northern Region, which offers the perfect blend of education and research for community, business and government, creating a vibrant and innovative nexus to support economic, social and environmental development. Over \$73 million has been invested into our new state of the art science and technology facilities.

Mawson Lakes is located opposite Technology Park and the industries that are significant employers of our Mathematics and Science graduates.

The Mawson Interchange integrates bus and passenger train services. It provides direct, rapid access for park-n-ride commuters, pedestrians and cyclists from the Mawson Lakes town centre and the University.



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



# Bachelor of Applied Science (Civil Aviation)

## Open Day 2011

City West campus: Sunday 21 August

### For more information visit

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

## Festival of Innovation

Mawson Lakes campus: Sunday 25 September

### For more information visit

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

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

SATAC code	434032
UniSA program code	LBCV
CRICOS code (international students only)	024163E
ATAR (February 2011 cut-off)	66.30
Program length	3 years
Prerequisites	Completion of a recognised undergraduate qualification
Assumed knowledge	SACE Stage 2 Mathematical Studies, Specialist Mathematics and Physics
Home campus	Mawson Lakes
Accepts Special Entry (STAT)	Yes
External study available	No
Part-time study available	Yes
TAFE credit available	Yes
Honours study available	No
Program fees	Commonwealth supported
Program fees (international students only)	(A\$) 21,250 per annum
Scholarships available	<a href="http://unisa.edu.au/scholarship">unisa.edu.au/scholarship</a>

## Program overview

The first university in Australia to offer a tertiary qualification for pilots, the University of South Australia continues to be the only university in South Australia to offer Civil Aviation as a tertiary qualification, and is one of only two Australian universities to operate its own flying school.

The Bachelor of Applied Science (Civil Aviation) program offered by UniSA is a technically oriented aviation program that exceeds the knowledge requirements of the Australian Civil Aviation Safety Authority for the issue of both the Commercial and Air

Transport Pilot Licences. Being a professional pilot is more than the relatively simple act of physically flying an aeroplane. A professional pilot requires an in-depth knowledge of many diverse elements including aerodynamics, aircraft power plants and systems, meteorology, navigation, flight planning, computer controlled flight management systems, flight operation technology and crew resource management.

The UniSA Bachelor of Applied Science (Civil Aviation) provides you with that knowledge, challenges you to develop

a professional attitude, and introduces you to the responsibilities of being a professional pilot. Although the Aviation degree caters primarily for future airline pilots, it also provides pathways for those who aspire to a career in aviation other than piloting such as air operations dispatch, air traffic control and aviation management.

UniSA delivers the coursework and practical training components of this program for domestic students. The program aims to produce graduates with a professional outlook with the skill sets required for entry into the aviation industry.

## What will I study?

The program provides you with a sound theoretical and practical knowledge of the fundamentals of aerodynamics, aircraft systems, meteorology, navigation, flight planning, aircraft performance and computer-controlled aircraft management systems. As part of your studies you can undertake visits to the Bureau of Meteorology, Air Traffic Control and other aviation facilities. These visits provide you with an opportunity to gain a better understanding and knowledge of the industry in which you will work.

## What does it take?

To succeed in aviation, you need to be highly motivated and willing to develop a professional attitude and approach to their work. In addition, successful students will have developed a sound level of responsibility, they will be able to plan ahead, have the capacity to think clearly and logically and have good hand/eye coordination.

## Who will employ me?

This program aims to provide graduates with the skills, knowledge and experience suitable for a career in the aviation industry. Graduates of the program who complete the flying training can go on to Flight Instructor training and gain employment as a flight instructor, or become a charter pilot while accumulating the experience necessary for airline entry. Non-flying graduates can pursue an aviation career in flight operations, airline administration, aviation management or air traffic control. Graduates of the Bachelor of Applied Science (Civil Aviation) have been successfully employed by organisations such as QANTAS, Cathay Pacific, Malaysian Airlines, British Airways, Singapore Airlines, National Jet, Alliance, and Virgin Blue Airlines.

## Additional notes

Flight training is an additional cost. Some medical requirements are needed for pilot licences.

## Program requirements

### FIRST YEAR

#### First Half

##### (Study Period 2)

Aerodynamics 1

Aircraft Engines: Systems 1

Aviation Mathematics

Aviation Physics 1N

#### Second Half

##### (Study Period 5)

Meteorology 1

Aviation Law and Flight Rules

Navigation 1

Human Performance  
and Limitations

### SECOND YEAR

#### First Half

##### (Study Period 2)

Human Factors

Aircraft Operations 1

Meteorology 2

Navigation 2

#### Second Half

##### (Study Period 5)

Aircraft Operations 2

Aerodynamics 2

Aircraft Engines: Systems 2

Threat and Error Management

### THIRD YEAR

#### First Half

##### (Study Period 2)

Communications and  
Research Methods

Crew Resource Management

Aviation Operations  
and Management

Heavy Aircraft Systems

#### Second Half

##### (Study Period 5)

Elective

Risk and Safety Management

Aviation Project

Large Aircraft Performance  
and Planning



# Graduate Diploma in Aviation

## Open Day 2011

City West campus: Sunday 21 August

### For more information visit

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

## Festival of Innovation

Mawson Lakes campus: Sunday 25 September

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

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

SATAC code	n/a
UniSA program code	LGCV
ATAR (February 2011 cut-off)	n/a
Program length	1 year
Prerequisites	A minimum Class 2 Aviation Medical Certificate.
Assumed knowledge	n/a
Home campus	Mawson Lakes
Accepts Special Entry (STAT)	Yes
External study available	No
Part-time study available	Yes
TAFE credit available	No
Honours study available	n/a
Program fees	Commonwealth supported
Scholarships available	<a href="http://unisa.edu.au/scholarship">unisa.edu.au/scholarship</a>

## Program overview

The Graduate Diploma in Aviation is offered as a full-time or part-time program leading graduates to a commercial pilot's licence and a multi-engine command instrument rating.

This diploma is professionally recognised by the Civil Aviation Safety Authority (CASA) and the International Civil Aviation Organisation. Eligible students undertaking UniSA's Graduate Diploma in Aviation may choose to defer their tuition fees by taking out FEE-HELP loan under the Federal (Australian) Government's Higher Education Loan Program – HELP.

## What will I study?

The Graduate Diploma comprises four courses which

combine aviation theory and practical flight operations.

You'll use state-of-the-art equipment including glass panel aircraft and a modern simulator, as well as software tools similar to those currently used by the aviation industry. You'll be regularly assessed using indicators based on professional competencies and provided with detailed feedback on your performance.

## Entry requirements

Applicants must be enrolled in the Bachelor of Applied Science (Civil Aviation) program at UniSA and have completed one half year of study; or have been awarded a bachelor qualification at an Australian or recognised overseas tertiary institution; and

in addition, prior to enrolment applicants are required to:

- » Attend an interview with the Program Director or Nominee; and
- » Hold a minimum of a Class 2 Aviation Medical Certificate.

Prior to commencing training at the Academy students are required to provide proof of a clear Drug & Alcohol Test conducted in accordance with CASR Part 99.

## Additional notes

Enrolment is subject to Program Director approval. Current LBCV students can enrol in any study period. Applicants with existing undergraduate qualifications may be eligible to commence in Study Period 1 or 4. This program is not available to international students.

## Program requirements

### FIRST YEAR

#### First Half

#### (Study Period 1, 2 or 3)

Aviation 1ET

Aviation 2ET

#### Second Half

#### (Study Period 4, 5 or 6)

Aviation 3ET

Aviation 4ET



Unisa

Mawson Lakes  
Campus



# Entry requirements

## For Undergraduate Bachelor Degrees and Associate Degrees

Applicants are required to have:

- » Completed SACE;
- » Completed at least 80 credits of SACE at Stage 2 of which 60 must be Tertiary Admission subjects (TAS) and the other 20 either TAS, Recognised Studies or a mix of the two;
- » Completed any prerequisites for your chosen program;
- » Obtained a competitive ATAR;
- » Completed interstate or overseas qualifications that the University considers equivalent to the SACE;
- » Completed the International Baccalaureate Diploma;
- » Completed or partly completed a recognised higher education program at a recognised higher education institution;
- » Completed at least four Open Universities Australia (OUA) courses at the appropriate level;
- » Completed an award from TAFE or from another registered training organisation at AQF Certificate IV or above;

- » Qualified for Special Entry and completed the Special Tertiary Admissions Test (STAT). A personal competencies statement and/or employment experience may also be considered;
- » Completed the University Foundation Studies program.

Please note that some programs have prerequisites. Applicants should check all entry requirements before applying. For some programs, applicants may also be required to attend an interview or present a folio.

For more information on entry requirements, visit [unisa.edu.au/future](http://unisa.edu.au/future)

### Participation and Access

UniSA offers various programs and 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 1300 UNINOW or email [study@unisa.edu.au](mailto:study@unisa.edu.au)

## UniSA Advantage

UniSA Advantage is a bonus points scheme that encourages participation in education as well as rewards achievement in selected Year 12 subjects that better prepare students for university study. The scheme includes two strands – **Achievement and Aspire**.

Achievement bonus points will automatically be awarded if students score a C or better in Year 12 Tertiary Admission Subjects (TAS) relevant to their intended UniSA program. Find out more here [www.unisa.edu.au/future/year12/bonuspoints](http://www.unisa.edu.au/future/year12/bonuspoints)

Aspire bonus points are awarded automatically to students who attend a school recognised by UniSA as 'under represented' with respect to students going on to higher education. Students from rural and remote areas are also eligible for automatic bonus points while those students on School Card (or state equivalent) and/or Youth Allowance, and do not attend a recognised school, can apply for bonus points by downloading an application form at [unisa.edu.au/future/year12/bonuspoints](http://unisa.edu.au/future/year12/bonuspoints)

For more information, visit [unisa.edu.au/future/year12/bonuspoints](http://unisa.edu.au/future/year12/bonuspoints). You can also contact Future Student Enquiries by phone (08) 8302 2376 or 1300 UNINOW (local call cost) or email [study@unisa.edu.au](mailto:study@unisa.edu.au)

## Student contributions

Student contributions are the amount you pay towards the cost of your program. The University determines the amount that you contribute within a range set by the Australian Government. The contribution that applies depends on which courses you choose to study and the contribution band in which those courses are classified. The amount of your student contribution also depends on the unit value of your courses of study (the equivalent full-time student load (EFTSL) value of the course).

As per the Australian Government guidelines, the student contribution amounts for 2011 are:

Band	Fields of study	Student contribution
National priorities	Mathematics, statistics, science	\$0 – \$4,355
Band 1	Humanities, behavioural science (including clinical psychology), social studies, foreign languages, visual and performing arts, education, nursing	\$0 – \$5,442
Band 2	Computing, built environment, health (allied health and other health), engineering, surveying, agriculture	\$0 – \$7,756
Band 3	Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce	\$0 – \$9,080

Note: These amounts are for 1 EFTSL in 2011. The student contribution amounts for 2012 will be advised by the Federal Government in October 2011, and these will be available to view via [unisa.edu.au/future/fees](http://unisa.edu.au/future/fees) at that time.

# Glossary

## WHAT WILL YOU STUDY?

### Associate degree

An award for completing a two-year (or part-time equivalent) tertiary program.

### Direct Entry

Programs for which applications are not processed through SATAC but are made direct to UniSA.

### Bachelor degree

A program of three or more years duration (or part-time equivalent). Bachelor degree programs provide the relevant qualifications for many professions.

### Honours

An additional year of study in a Bachelor degree during which students specialise in a chosen area of study. In some cases, Honours study can actually be done as part of the degree.

### Graduate Certificate

An award for completing a postgraduate program of at least six months in duration (or part-time equivalent).

### Graduate Diploma

An award for completing a postgraduate program of at least one year in duration (or part-time equivalent).

### Master degree

A postgraduate degree undertaken after completion of a Bachelor degree (normally with Honours) which focuses on one area of specialisation.

### PhD

Doctor of Philosophy (PhD) programs normally extend over three years (or part-time equivalent) and involve significant research work.

## HOW DOES YOUR PROGRAM WORK?

### Major

A set of related courses which comprises 36 units of study within a Bachelor degree.

### Sub-major

A set of related courses which comprises between 19 and 35 units of study within a Bachelor degree. In some programs these may be called 'general studies sub-majors'.

### Minor

A set of related courses which comprises up to 18 units of study within a Bachelor degree. In some programs these may be called 'cognates'.

### Program

Award in which you are enrolled, eg Bachelor of Arts.

### Course

A component of study within a program (previously known as a 'subject').

### Unit

A value assigned to a course which measures the amount of work involved in that course. Full-time students normally undertake 36 units of study per year (18 units per study period).

## UNISA GLOSSARY

### Assumed knowledge

Some first-year courses require knowledge of certain SACE Stage 2 subjects.

### Free Electives

A course chosen from any on offer outside your Division, provided that individual course prerequisites are met. Free elective courses are designed to broaden your knowledge and skills beyond your professional field of study.

### CRICOS code

Code identifying that a UniSA program has been registered on the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS).

### Division

UniSA is split into four academic Divisions – Business; Education, Arts and Social Sciences; Health Sciences; and Information Technology, Engineering and the Environment – each offering a range of specialised programs and courses.

### Prerequisites

Are SACE Stage 2 (Year 12) subjects, or equivalent qualifications which are required for admission into the program.

### SACE

Is the South Australian Certificate of Education or a recognised equivalent qualification.

## SATAC Guide

A publication that lists every program offered by South Australian higher education institutions. The SATAC Guide provides information about the selection process, includes instructions on how to apply and is available every year from newsagents Australia-wide.

## Special Entry (STAT)

Special Tertiary Admissions Test (STAT) is an alternative tertiary admissions test for people who do not have a recent Year 12 certificate.

## ATAR (Australian Tertiary Admission Rank)

A ranking of all students who have completed SACE in a particular year. The minimum ATAR required for the previous year is often a guide to how well you will need to perform to gain entry into a particular program. ATARs can vary from year to year and should be used as a guide only.



UniSA

unisa.edu.au/careershop

## CareerShop

The latest news, events and information to help kick-start your career.

Choose your future direction and get on track. Sign up to CareerShop, your personalised careers network that helps you make informed choices about your university and career paths.

### CareerShop gives you

- » The opportunity to watch videos.
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- » Exclusive entry to CareerShop competitions, giving you the chance to win great prizes.

To register, simply log on to [unisa.edu.au/careershop](http://unisa.edu.au/careershop), fill in your details and start exploring. And you'll receive regular CareerShop updates by email each time we upload new information.

### Ask UniSA

Get answers 24/7 at [unisa.edu.au/future](http://unisa.edu.au/future)  
Telephone (08) 8302 2376 or 1300 UNINOW

Email [study@unisa.edu.au](mailto:study@unisa.edu.au)

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

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Whyalla and Mount Gambier Programs

The University of South Australia reserves the right to alter, amend or delete any program, fee, course, admission requirement, mode of delivery or other arrangement, without prior notice.

CRICOS provider number 00121B

Information correct at time of printing, April 2011.