Bachelor of Aviation

Course code: L800
SATAC code: 430932
CRICOS code: 02416E
Campus: Mawson Lakes, Adelaide
Length: 3 years full-time study
Commence: February and July

Assumed knowledge: high school mathematics and physics
(Selection in 2019: A$22,500 per year)
(Additional fees apply for pilot training and will be advised upon entry)

Entry requirements
• Australia A/L: 10
• Hong Kong/Singapore A-levels (best 3): 6
• HSC (best 5): 17
• Malaysia STPM: (best 6: 6
• Other secondary education qualification (such as International Baccalaureate)
• Degree, diploma, associate diploma or certificate from a recognised higher education institution
• Successful completion of a recognised university foundation program

English language entry requirements
Applicants must satisfy one of the following conditions for entry:
• IELTS 6.0 with reading 6.0 and writing 6.0
• TOEFL PBT 550 with TWE 4.5
• TOEFL IBT 80 with no band less than 20
• Cambridge CPE
• Centre for English Language at UniSA Academic English Level 4
• Completion of secondary school qualification in Australia in past two years
• Completion of at least one year of tertiary study in Australia in past two years
• Completion of one year of secondary or tertiary study conducted and completed in English in the past two years in a country in which English is commonly used, as determined by the university.

How to apply
Applications to this program are made through the UniSA Apply online portal: www.unisa.edu.au/apply

For more information about degrees at UniSA please contact us through one of the following methods:

Calling to Australia: +61 3 9627 4854

Website: www.unisa.edu.au/aviation

Note on medical tests
There is no medical test required to study the bachelor degree.
However for students undertaking pilot training the Australian government requires a Class 2 Medical Certificate in order to obtain a Private Pilot License and a Class 1 Medical Certificate in order to obtain a Commercial Pilot License.

Medical tests can be conducted in Australia or overseas. For a list of authorised medical examiners and eye examiners please consult the Civil Aviation Safety Authority website: http://www.casa.gov.au/authorisedpilots?

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 will 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.

Professional recognition
The Bachelor of Aviation program offered by UniSA is a technically oriented aviation program that exceeds the knowledge requirements of the Civil Aviation Safety Authority and the International Civil Aviation Organisation. You will 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. (Note: pilot training is an additional cost. Some medical requirements are needed for pilot licences.)
Why study at UniSA?

- UniSA operates its own Aviation Academy with a crew of flight instructors and facilities including training aircraft, flight simulators, maintenance hangars and navigation rooms and equipment. This gives practical rigor to classroom training and provides exposure to a flight operations hub. Aviation Academy instructors are skilled experts with industry experience.
- Aviation courses are taught at UniSA’s Mawson Lakes campus which is adjacent to Parafied Airport and UniSA’s Aviation Academy. Students can enjoy the convenience of a quick 10 minute car or train ride between classroom and airport.
- Nothing beats hands-on experience. Students have the opportunity to take part in commercial flight projects such as ocean patrols in summer and gain a valuable first look into the reality of commercial operations.
- Our students fly in style. Students undertaking pilot training are able to accrue flying hours in UniSA’s new fleet of Cesnna 172S aircraft.

Careers and industry

This program aims to provide you with the skills, knowledge and experience suitable for a career in the aviation industry.

Upon graduation of the program those 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 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. For a list of past graduates now working in the airline industry please see here [source].

Unisa graduates career destinations

- Passenger transport with major commercial airlines
- Air freight dispatch and transport
- Patient transport
- Coordination of air operations
- Flight training
- Analysis of aircraft systems

Aviation industry employment snapshot

Job prospects: AVERAGE

Employment predictions to 2014-15: STRONG GROWTH

Industry size: SMALL (9600)

Average weekly wage: HIGH ($1500)

% in FT work: AVERAGE (75%)

Vacancy levels: VERY LOW

Main employing industries (% share)

66.7% Transport, Postal and Warehousing
10.5% Education and Training
6.7% Public Administration and Safety
4.9% Health Care and Social Assistance

Source: Department of Education, Employment and Workplace Relations

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- Passenger transport with major commercial airlines
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Credit transfer

For students with prior studies in aviation related courses at a recognised institution, University of South Australia may allow the transfer of credit to reduce the number of courses required to study in Adelaide. Students from the following institutions have successfully applied for and received credit for prior studies:

- Singapore Polytechnic
- Republic Polytechnic
- Nanyang Polytechnic
- City University of Hong Kong
- Hong Kong Institute of Vocational Education
- South Australian Institute of Business and Technology (SAIBT)

Even if your institution is not listed here, all students are eligible to apply for credit transfer as part of the application process to enter the degree.
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Aviation requires dedication and passion - there is no easy way out of training and studying. Sacrifices are the norm during the program so that I have time to study and also enough time for navigation flights which require a lot of time for planning on the ground and also for the flight itself. I also have to keep my fatigue in check by giving myself enough rest. It was hard to plan at first but as time goes by and I found my limits it became easier.

Have you overcome any challenges or hardships that you encountered during your studies? How did you do it?

The main challenge that I faced has been arranging my time to fit in pilot training and studying. I have to plan my schedule so that I have time to study and also enough time for navigation flights which require a lot of time for planning on the ground and also for the flight itself. I also have to keep my fatigue in check by giving myself enough rest. It was hard to plan at first but as time goes by and I found my limits it became easier.

Any plans for after you graduate? What would you like to be doing in 5 years?

I intend to apply for airline pilot cadetships after graduation and in five years I aspire to be a first officer flying for a major airline in Asia.

What advice would you like to give to other students considering studying aviation at UniSA?

Aviation requires dedication and passion - there is no easy way out of training and studying. Sacrifices are the norm in all aspect of the industry but all of the hard work and perseverance will pay off in the long run. Focus on your goals and work towards it and you will achieve it.

Table of courses

| First year | First half | Aerodynamics 1 |
| Second half | Meteorology 1 |
| Second year | First half | Human Factors |
| Second half | Aircraft Operations 1 |
| Third year | First half | Communications & Research Methods |
| Second half | Aerodynamics 2 |
| Aviation Operations 1 |
| Elective |
| Risk & Safety Management |
| Aviation Project |
| Large Aircraft Performance & Planning |

Aviation industry employment snapshot

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Source: Department of Education, Employment and Workplace Relations

UniSA graduates career destinations

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Source: UniSA Graduate Destination Survey

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From the Head of Aviation

The aviation industry has some of the brightest prospects for careers in the next few decades. The industry is expected to continue to grow 5% to 10% per year for the next 20 years and US aircraft manufacturer Boeing has predicted that an additional 466,500 pilots will be required over this period with most of the growth predicted to occur in our very own region - the Asia Pacific. Students completing their studies in aviation at University of South Australia are in a good position to secure a long term and rewarding career in a growing market.

University of South Australia graduates are employed all over the world mostly in flying positions, however studying for a degree in aviation gives graduates additional knowledge which some graduates have also used to obtain positions in aviation operational management. Students graduating in aviation engage in a variety of employment positions including: becoming cadet pilots with major international airlines, operating single engine aircraft in remote areas, performing contract work for government bodies such as medical and safety departments, flying for local tourist operators and working in training and teaching roles.

Completing a Bachelor of Aviation at University South Australia and undertaking flight training in Adelaide provides an opportunity for an exciting and long career in aviation. By integrating a recognised degree course with a training program in piloting an aircraft graduates leave the university with a valuable sought after education and a commercial pilot license. The University of South Australia maintains its own flying school with instructional staff and aircraft ensuring that students receive the same of the highest instructional standards and experience in Australia.

Neil Hyland, Head of Aviation
University of South Australia

As the first university in Australia to offer a tertiary qualification for pilots, University of South Australia (UniSA) 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.

Program overview

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 Bachelor of 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.

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.

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Professional recognition

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What does it take?

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

Pilot training

International students have the opportunity to 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. (Note: pilot training is at an additional cost. Some medical requirements are needed for pilot licences.)

Bachelor of Aviation

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CRICOS code: 024163E
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Commence: February and July
Assumed knowledge: high school mathematics and physics

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• Applications which can be found on the UniSA portal: www.unisa.edu.au/apply
• Completion of the course registration form
• Centre for English Language Studies (CELSt): English Language A: English Level 4
• Cambridge CPE
• TOEFL with a minimum score of 80
• Hong Kong Diploma of Secondary Education with a minimum score of 6.0
• STPM with a minimum score of 6.0
• Other qualifications equal to an Australian secondary diploma
• Degree, diploma, associate diploma or certificate from a recognised higher education institution
• Successful completion of a recognised university foundation program

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While every effort is made to provide full and accurate information at the time of publication, the university does not give any warranties in relation to the accuracy or completeness of this content. The university also reserves the right to discontinue or vary arrangements, programs, courses and/or units of study, or to amend or withdraw requirements and admission requirements without prior notice.

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