


■ Undergraduate and TAFE

# Aviation

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SWINBURNE  
UNIVERSITY OF  
TECHNOLOGY

[swinburne.edu.au](http://swinburne.edu.au)



AVIATION MANAGEMENT  
COMMERCIAL PILOT LICENCE  
FLIGHT OPERATIONS

# Take your career to new heights

Whether you're interested in flying or the management side of aviation, a Swinburne course can pave the way to a successful career in the aviation industry. By combining preparatory knowledge, technical skills and opportunities to engage with industry, we give you a comprehensive education and ensure that you will graduate ready to meet the challenges of this exciting and competitive industry.



## Flying

Swinburne is the only university in Victoria offering degree-level flying courses. These courses incorporate commercial flying training at Oxford Aviation Academy (OAA), providing the necessary skills for you to obtain your Commercial Pilot Licence (CPL) and a multi-engine command instrument rating.

OAA provides flying training to the highest airline standards in new-generation aircraft. It is the largest flying training organisation in Australia and is the provider of choice for cadet pilot training for Qantas, Jetstar and various Asian airlines.

Our strong links with industry allow you to make valuable connections that will enhance your employment prospects on graduation. Swinburne has been delivering the world-class Qantas Cadet Pilot Program since 2008 and the Jetstar Cadet Program since 2010.

## Aviation management

If you're looking to contribute to the industry with your feet on the ground, Swinburne's aviation management courses will suit you. You can apply qualifications in this area to a variety of workplace roles. You could be a leader in airline and airport operations, move into technical management, or even find your niche within regulatory authorities.

## Making maths easier

Maths is an important part of aviation, but it isn't everyone's strong point. Swinburne's Maths and Stats Help (MASH) Centre offers assistance to degree students needing help with maths and statistics. Lecturers and tutors are available at the centre to answer queries, and students can use the space to study individually or in groups.

## You may enjoy a career in aviation if you're interested in:

- the airline industry
- flying
- management and safety.

## A Swinburne aviation course can help you to build your skills in:

- flying operations
- professional and ethical conduct in the aviation industry
- analysing and solving problems
- working independently
- organisation and management, in the context of airports and airlines
- managing complex projects
- teamwork
- understanding the business and social environment; in particular, its global and complex nature.

## How we prepare you for your career

Swinburne works closely with industry groups to develop course content, which means we understand exactly what employers are looking for and can ensure the skills you learn are those employers want.

Our teachers are experienced in their industries and experts in their field, so you get the best possible chance to be skilled in the very qualities employers look for. What's more, our involvement with industry and constant monitoring of employment trends means our courses address skills shortage areas, meaning when you graduate you're likely to be highly employable.

# Courses at a glance

KEY									
ATAR		PREREQUISITES		CAMPUSES		DURATION		APPLY	
RC	Range of criteria	MATH METH	Mathematical Methods	EV H	External Venue Hawthorn	Courses are full-time or part-time in years.		V D	VTAC Direct
						F	Full-time		
						P	Part-time		

STUDY AREA	COURSE	ATAR	PREREQUISITES	CAMPUS	DURATION	APPLY	PAGE
<b>AVIATION – UNIVERSITY DEGREES</b>							
Aviation	Bachelor of Aviation	RC	20 in English (any) and MATH METH (either)	H and EV	3F 6P	D or V	6
	Bachelor of Aviation/Bachelor of Commerce	RC	20 in English (any) and MATH METH (either)	H and EV	4F 8P	D or V	6
Aviation Management	Bachelor of Aviation (Management)	70.60	20 in English (any) and MATH METH	H	3F 6P	D or V	7
	Bachelor of Aviation (Management)/Bachelor of Commerce	70.60	20 in English (any) and MATH METH	H	4F 8P	D or V	7
<b>AVIATION – TAFE COURSES</b>							
Aviation	Advanced Diploma of Technology (Aviation) incorporating a Diploma and Certificate IV	RC	VCE and Medical	H and EV	2F	D or V	6



# TAFE courses and university degrees

**Whether you are a young person preparing for your first job or an older person looking to re-train or take the first step in a career change, TAFE could be the right choice for you. TAFE courses help you to build the practical skills and technical expertise that make you employable.**

At Swinburne, we offer TAFE practicality with the support of a top-ranking university environment. And with flexible study options including online, blended learning programs (a combination of on- and off-campus study), workplace delivery and part-time study, our TAFE courses can fit in with your life and work.

## Preparation for your career

Swinburne's TAFE graduates are in demand by employers because they are industry ready. During your course, you'll work to real-world expectations, using the equipment and technology you'll encounter once you start your job.

All of our programs have work-based elements, which can include work placements and projects, work scenarios and simulations to ensure you are work ready.

**Swinburne's personalised approach to learning puts you at the heart of everything we do. Our degrees give you the skills you need – not just the theory – so you'll have first-hand knowledge of what's needed when you start work. Our flexible course structure lets you shape your education to suit your own aspirations.**

## Summer and Winter terms

Swinburne's Summer and Winter terms give you the flexibility to spread out your study load to fit around your work and life commitments or finish your course sooner. You can also\*:

- add breadth or depth to your degree by completing a minor
- undertake single units of study to explore areas of interest
- take a study tour to Kuching, Malaysia, home to Swinburne's Sarawak campus.

[www.swinburne.edu.au/summer-winter](http://www.swinburne.edu.au/summer-winter)

*\* Some of these options may not be available for all programs.*

## Industry-Based Learning

Swinburne's Industry-Based Learning (IBL) program gives you real-world experience during your undergraduate degree. IBL is a six- or 12-month paid work placement in the industry you're interested in pursuing as a career path. It is an opportunity to gain real-life experience in your chosen field.

IBL gives you a distinct advantage over other graduates. Combining tertiary qualifications with practical experience can better prepare you for the opportunities and challenges of professional life, and allow you to develop practical skills and an understanding of how your chosen industry works.

*Please note: IBL is not available to international students due to student visa conditions.*

## Final-year Capstone Projects

Capstone Projects are professionally focused, real-world team projects normally completed in your final year of study.

Capstone Projects give you a chance to identify your strengths and develop the skills you will need to succeed once you graduate.

[www.future.swinburne.edu.au/capstone](http://www.future.swinburne.edu.au/capstone)

## Careers in the Curriculum

Swinburne's free Careers in the Curriculum program helps you develop your career-planning skills. You will develop a personal study and career plan and explore available job options, while also getting invaluable practical advice on job applications, résumé preparation and interviews.

[www.future.swinburne.edu.au/careers](http://www.future.swinburne.edu.au/careers)



# Swinburne pathways

## Christian Tagle Bachelor of Aviation/ Bachelor of Commerce

“Swinburne has given me excellent guidance and industry expertise so I can really understand the aviation field. I really like the fact that Swinburne has fantastic links in the industry and has lecturers that have been there and done that. Having studied the double degree I believe I have extra skills that will make me more employable and open up further opportunities.”



**Offering both TAFE and bachelor degree courses, Swinburne makes it easy to pathway from TAFE to a degree course while ensuring that you get the maximum benefit from your previous studies.**

### Guaranteed Entry Scheme

The Guaranteed Entry Scheme (GES) gives Swinburne diploma and advanced diploma students guaranteed entry into a selected range of Swinburne undergraduate degree courses. You'll receive credit for your studies, fast-tracking you into later stages of the degree.

Depending on the TAFE program you complete, you can choose from a selected range of undergraduate degrees. For a guide to the available degrees, see the table below, or for a full listing refer to [www.swinburne.edu.au/ges](http://www.swinburne.edu.au/ges)

### Pathways Direct

If you meet the entry requirements, you may be eligible to pathway into university via the Pathways Direct Scheme, which opens up a greater number of courses and specialisations to you. The level of credit granted depends on the relevance of your TAFE qualification to the degree program you are enrolling in. Refer to the table below for a guide to the maximum credit exemptions you may receive. Preference for entry into a degree course is given to those with a credit grade average (65% or above) and no fails in their final year of study.

### Credit transfer

If you have completed a qualification at another Australian or international institution you may be eligible to receive credit and enter a degree with advanced standing. To find out if you are eligible, speak to an adviser on 1300 275 794.

### University study skills

If you decide to progress from a TAFE diploma or advanced diploma course to a university degree, to help you make a successful transition Swinburne offers a program in Advanced University Study Skills. The program is designed to help you familiarise yourself with the typical study skills needed to best manage the pressures and challenges of degree-level study.

For more information visit [www.swinburne.edu.au/uniskills](http://www.swinburne.edu.au/uniskills)

#### KEY

EV	External venue
H	Hawthorn
L	Lilydale
GES	Guaranteed Entry Scheme
PD	Pathways Direct

TAFE COURSE	CAMPUS	UNIVERSITY DEGREE	CAMPUS	PATHWAY SCHEME	MAXIMUM UNIT EXEMPTION	MINIMUM TIME TO COMPLETE DEGREE
<b>AVIATION</b>						
Advanced Diploma of Technology (Aviation)	H + EV	Bachelor of Aviation	H + EV	PD	9 units	2 yrs
		Bachelor of Aviation (Management)	H	PD	4 units	2.5 yrs
		Bachelor of Business	L	GES	12 units	1.5 yrs
		Bachelor of Social Science	L	GES	12 units	1.5 yrs

Note: This table is a guide only. Please see [www.swinburne.edu.au/pathways](http://www.swinburne.edu.au/pathways) for the most up-to-date information.

## Course information

**T** TAFE course

**U** University degree

### Aviation

**Advanced Diploma of Technology (Aviation)** incorporating a Diploma of Aviation (Instrument Flight Operations) and Certificate IV in Aviation (Commercial Pilot Aeroplane Licence) **T**

**Campus:** Hawthorn and external venue (Moorabbin Airport)

**Duration:** Two to two-and-a-half years full-time

**Prerequisites:** Satisfactory completion of Year 12 or equivalent, or mature age. Successful applicants will need to obtain a Class 1 medical certificate as required by the Civil Aviation Safety Authority (CASA).

**Application:** Direct (all intakes) or VTAC (February start) and interview. CASA medical requirements and flying fees apply.

**VTAC code:** 77031 (VGF), 77034 (FTDP)

In this course you will undertake commercial flying training. The course prepares you for the Private Pilot Licence (PPL), Commercial Pilot Licence (CPL) and the Air Transport Pilot Licence (ATPL).

#### Major study areas

- Flight planning
- Aircraft general knowledge
- Navigate aircraft
- Air law
- Meteorology
- Manage aircraft passenger and cargo
- Aerodynamics
- Control aeroplane solely by reference to instrument panel
- Manage situation awareness in aircraft flight

#### Career opportunities

Students are equipped for professional careers in general aviation as commercial aeroplane pilots – particularly with regional airlines.

### Bachelor of Aviation **U**

**Campus:** Hawthorn and external venue (Moorabbin Airport)

**Duration:** Three years full-time or equivalent part-time

**Prerequisites:** Units 3 and 4 – a study score of at least 20 in English (any) and Mathematical Methods (either)

**Application:** VTAC and direct (both are required); visit [www.swinburne.edu.au/courses](http://www.swinburne.edu.au/courses) for more information. Applicants must also attend an interview and undertake a skills assessment test. Civil Aviation Safety Authority medical requirements and flying fees apply.

**VTAC code:** 34511 (CSP), 34513 (IFP)

**2011 Round 1 Clearly-in ATAR:** Range of criteria

Do you want to become a qualified commercial pilot? In this course you will learn how to fly new-generation planes and develop skills in aviation management and safety.

You will undertake commercial flying training at Oxford Aviation Academy (OAA), located at Moorabbin Airport, to obtain your Commercial Pilot Licence (CPL) and a multi-engine command instrument rating. As part of your flying training, you will also complete a multi-crew cooperation course. You will study the theory units required by the Australian Civil Aviation Safety Authority (CASA) up to and including Air Transport Pilot Licence (ATPL) standard, as well as studies in aviation human factors, air transportation management and aviation technology.

#### Major study areas

**Stage 1:** You will be introduced to the structure and operation of the aviation industry. First-year studies provide preparatory units for the latter stages of the course, introduce the concepts of human factors and address aviation industry technology. You will undertake flying training at OAA three days a week and complete two days a week of theory units at Hawthorn.

**Stage 2:** You will concentrate on developing highly practical managerial and analytical skills and capabilities. This enables a deeper understanding of operations and decision-making processes. You will also continue with flying units to complete your CPL.

**Stage 3:** You will bring all the aviation concepts together, applying your knowledge and skills to a major industry-based research project.

The major study areas include the following:

- Commercial pilot licence
- Air transport pilot licence theory
- Aerodynamics and performance
- Aviation business management
- Aircraft design and operations
- Airspace management and air traffic services
- Crew resource management
- Aviation human factors and safety management systems

### Fees

In addition to course fees, students undertaking flying training must pay flying training fees. Basic single-engine CPL and Instrument Rating fees in 2011 were \$79,798, which is based on scheduled flying hours. Equipment, headset, uniform, CASA documentation and CASA exam fees were an additional \$8901. For further information please see [www.swinburne.edu.au/aviation](http://www.swinburne.edu.au/aviation)

*Note: these fees are subject to change.*

Eligible local students will be able to access Commonwealth assistance for fees for both the academic units of study (HECS-HELP) and flight training (FEE-HELP). To access FEE-HELP, eligible students will be given the option of enrolling in the Graduate Certificate of Aviation (Piloting) during enrolment, offsetting their flying training fees through the government loan system. (Note: you do not need to apply for the Graduate Certificate. Eligible students will be notified once they commence their studies at Swinburne). A maximum lifetime FEE-HELP limit applies, indexed annually; in 2011 the FEE-HELP limit was \$86,422.

### Career opportunities

You will be able to pursue a professional career as a pilot within the general aviation sector. With additional flying experience you can progress to both regional and major airline operations. You may obtain employment as a professional pilot in airlines, flying instruction, charter work, search and rescue, or police. In addition, your broad aviation education will prepare you for possible future management roles within the aviation industry.

### Professional recognition

This course is designed to take you beyond the requirements for the Civil Aviation Safety Authority (CASA), Air Transport Pilot Licence (ATPL) theory examination and Commercial Pilot Licence (CPL(A)) practical test.

## Aviation/Commerce

### Bachelor of Aviation/ Bachelor of Commerce **U**

**Campus:** Hawthorn and external venue (Moorabbin Airport)

**Duration:** Four years full-time or equivalent part-time

**Prerequisites:** Units 3 and 4 – a study score of at least 20 in English (any) and Mathematical Methods (either)

**Application:** VTAC and direct (both are required). Applicants must also attend an interview and undertake a skills assessment test. Civil Aviation Safety Authority medical requirements and flying fees apply.

**VTAC code:** 34511 (CSP), 34513 (IFP)

**2011 Round 1 Clearly-in ATAR:** Range of criteria

This course will equip you for a professional career as a commercial pilot, while introducing you to the world of commerce, expanding your career opportunities. You will undertake commercial flying training at Oxford Aviation Academy to obtain your Commercial Pilot Licence and multi-engine command Instrument Rating.

## Major study areas

The major aviation study areas include the following:

- Commercial pilot licence
- Air transport pilot licence theory
- Aerodynamics and performance
- Aviation business management
- Aircraft design and operations
- Airspace management and air traffic services
- Crew resource management
- Aviation human factors and safety management systems

For your commerce degree, you can choose a major from the following areas:

- Entrepreneurship and innovation
- Finance
- Human resource management
- International business
- Management
- Marketing

## Career opportunities

You will be able to pursue a professional career as a commercial aeroplane pilot, with the advantage of commerce studies to enhance your aviation knowledge and skills, giving you a competitive edge in the workforce.

## Professional recognition

This course is designed to take you beyond the requirements for the Civil Aviation Safety Authority (CASA), Air Transport Pilot Licence (ATPL) theory examination and Commercial Pilot Licence (CPL(A)) practical test. Professional recognition for commerce will differ depending on your chosen major; refer to the entry for Bachelor of Commerce.

# Aviation Management

## Bachelor of Aviation (Management) **U**

**Campus:** Hawthorn

**Duration:** Three years full-time or equivalent part-time

**Prerequisites:** Units 3 and 4 – a study score of at least 20 in English (any) and Mathematical Methods (either)

**Application:** Direct (all intakes) or VTAC (Semester 1)

**VTAC code:** 34421 (CSP), 34423 (IFP)

**2011 Round 1 Clearly-in ATAR:** 70.60

Most careers in the aviation industry are in areas other than flight crew. If you wish to enter the aviation industry in a management role, this course is for you. This course will allow you to make your mark in the aviation industry – both in Australia and overseas. You will gain a sound professional understanding of the aviation industry and its associated environment, and skills in organisational, regulatory, safety, technical and business management.

This course has been developed with input from industry professionals, and focuses on trends shaping the aviation industry today. With the continual guidance of the Swinburne Industry Advisory Committee, this course remains fully responsive to the ongoing changes in the aviation industry.

## Major study areas

**Stage 1:** You will be introduced to the structure and operation of the aviation industry. First-year studies also provide preparatory units for the latter stages of the course, introduce the concepts of human factors and address aviation industry technology.

**Stage 2:** You will concentrate on developing highly practical managerial and analytical skills and capabilities. This enables a deeper understanding of operations and decision-making processes. You will be given the opportunity to undertake a six or 12-month Industry-Based Learning (IBL) placement.

**Stage 3:** You will bring all the aviation concepts together and apply your knowledge and skills through undertaking a major industry-based research project.

The major study areas include the following:

- Flight planning and performance
- Aircraft planning, operation and management
- Aviation business management
- Aviation law
- Airline operations
- Aircraft maintenance, design and operations
- Airport management, airspace management and air traffic services
- Crew resource management
- Aviation human factors and safety management systems

## Career opportunities

Aviation management graduates will have the professional skills to work in a diverse range of specialist areas in airlines, airports, regulatory authorities and associated organisations, including roles in airline management, airports and ground operations, airport planning, aviation consultancy firms, aviation charter firms, aviation regulatory and safety services, commercial management, safety and compliance management, flight operations, network operations, engineering and maintenance, and passenger services.

## The VTAC code indicates the fee type.

**VGF:** VET government-funded place

**FTDP:** Fee type determined by provider

**CSP:** Commonwealth supported place

**IFP:** International fee place

To find out which fee type you're eligible for, visit [www.vtac.edu.au](http://www.vtac.edu.au)

# Aviation Management / Commerce

## Bachelor of Aviation (Management) / Bachelor of Commerce **U**

**Campus:** Hawthorn

**Duration:** Four years full-time or equivalent part-time

**Prerequisites:** Units 3 and 4 – a study score of at least 20 in English (any) and Mathematical Methods (either)

**Application:** Direct (all intakes) or VTAC (Semester 1)

**VTAC code:** 34421 (CSP), 34423 (IFP)

**2011 Round 1 Clearly-in ATAR:** 70.60

This course provides you with a sound professional understanding of the aviation industry and its associated environment. You will gain skills in organisational, regulatory, technical and business management, as well as being introduced to the world of commerce, which will expand your career opportunities.

## Major study areas

The major aviation management study areas include the following:

- Flight planning and performance
- Aircraft planning, operation and management
- Aviation business management
- Aviation law
- Airline operations
- Aircraft maintenance, design and operations
- Airport management, airspace management and air traffic services
- Crew resource management
- Aviation human factors and safety management systems

You can choose a major from the following areas in commerce:

- Entrepreneurship and innovation
- Finance
- Human resource management
- International business
- Management
- Marketing

## Career opportunities

With a Bachelor of Aviation (Management) and additional skills in commerce, you will have a range of career options, enhanced by your selected major. You may find employment in the areas of airline management, airline flight operations, airline ground operations, airport management, airport operations, airport planning, aviation consultancy firms, aviation charter firms, air services, aviation regulatory and safety services, aviation safety authorities, or in the area of your selected commerce major.

## ■ KEY DATES

21 August 2011  
Swinburne Open Day  
Hawthorn, Lilydale and Prahran  
[swinburne.edu.au/openday](http://swinburne.edu.au/openday)

16–21 December 2011  
Change of Preference period  
[swinburne.edu.au/cop](http://swinburne.edu.au/cop)

## ■ ANY QUESTIONS?

1300 275 794  
[study@swinburne.edu.au](mailto:study@swinburne.edu.au)  
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## ■ CAMPUSES

Hawthorn campus  
John Street, Hawthorn

Prahran campus  
144 High Street, Prahran

Lilydale campus  
Melba Avenue, Lilydale

Croydon campus  
12–50 Norton Road, Croydon

Wantirna campus  
369 Stud Road, Wantirna

Sarawak campus  
Kuching, Sarawak, Malaysia



CRICOS Provider Code: 00111D

The information contained in this course guide was correct at the time of publication, July 2011.

The university reserves the right to alter or amend the material contained in this guide. The information in this guide does not apply to international students. For information about courses for international students please go to: [www.international.swinburne.edu.au](http://www.international.swinburne.edu.au)

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