

# CQUniversity AVIATION

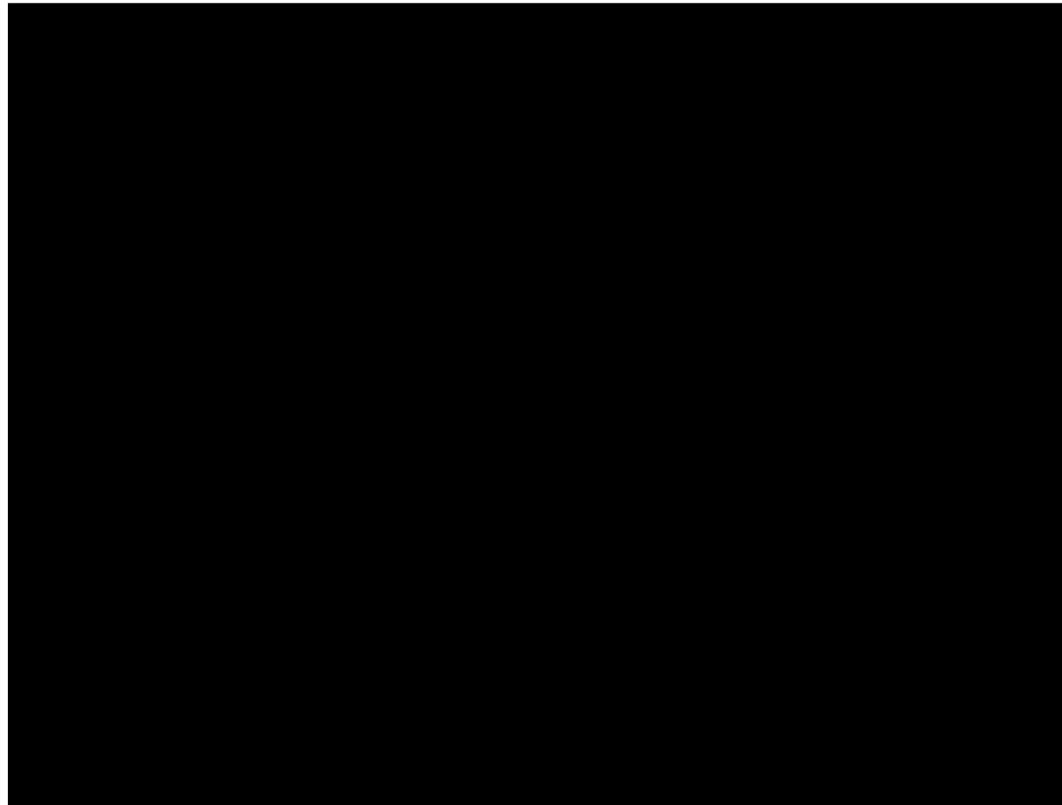
Prof Steve Thatcher



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- <https://youtu.be/IFqrKJUMTv4>





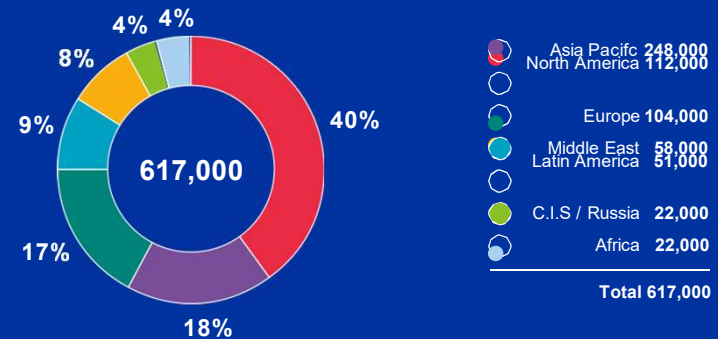
## Training 2016 Pilot Outlook

Airlines across the globe are expanding their fleets and flight schedules to satisfy demand generated by global economic expansion. The aviation industry continues to address these challenges by creating balanced, sustainable solutions to fill future pilot pipelines.

Regional markets that have relied heavily on recruiting pilots from outside their home locations are increasingly seeking to recruit, train, and develop locally sourced pilots.

Over the next 20 years, the Asia Pacific region will lead the worldwide growth in demand for pilots, with a requirement for 248,000 new pilots. North America will require 112,000, Europe 104,000, the Middle East 58,000, Latin America 51,000, the Commonwealth of Independent States (CIS) / Russia 22,000, and Africa 22,000.

### New Pilots by Region 2016-2035





# CQUNIVERSITY CAIRNS COMMUNITY IMPACT PLAN

A \$54.7 MILLION SHOVEL-READY PROPOSAL



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CRICOS Provider Code: 00219C | RTO Code: 40939



## PROJECT 2

### \$16M ASIA-PACIFIC AVIATION HUB

CQUniversity will develop a state-of-the-art Aviation and Engineering Centre of Excellence with a facility constructed at Cairns International Airport. This Centre will be run by leading industry experts utilising the latest in high-fidelity flight simulation technology. The centre will be embedded firmly within industry, and be driven by engagement with industry, to firmly position Cairns as a leader for world-class aviation training in the Asia-Pacific region.





# Bachelor of Aviation (Flight Operations) [BAv (Flight Operations)]

- The Bachelor of Aviation (Flight Operations) will prepare you for a career as a professional airline pilot capable of managing a multi crew environment.
- In this course you will study the academic and aeronautical knowledge requirements of the Commercial Pilot Licence, the Air Transport Pilot Licence and the Command Instrument Rating.



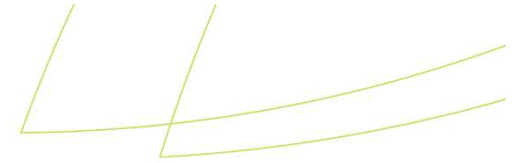
- In the first term of the first year of your study, you will fly solo in the circuit area of the training aerodrome.
- You will learn about unmanned aerial vehicles, the physics of aviation and basic aeronautics.
- You will be introduced to the fundamentals of computer programming as well as the laws that are relevant to aviation.

# First Year



- Basic Aeronautical Knowledge
- Basic Aeronautical Practice
- Unmanned Aerial Vehicles
- Aviation Physics
- Aviation Law
- Programming Fundamentals





- During your second year, you will learn the aerodynamics, aeronautics, meteorology, navigation, flight planning and loading required by a commercial pilot.
- You will learn about the human factors that impact commercial pilots.
- Flight planning and navigation both visually and using instruments are also covered.

# Second Year



- Aerodynamics (Commercial Pilot Licence)
- General Aeronautical Knowledge (Commercial Pilot Licence)
- Meteorology (Commercial Pilot Licence)
- Navigation (Commercial Pilot Licence)
- Flight Planning, Performance and Loading (Commercial Pilot Licence)
- Aviation Human Factors (Commercial Pilot Licence)
- Instrument Flight Rules and Procedures



- In your third year, you will build on the knowledge and skills relating to aerodynamics, navigation, meteorology, flight planning and other aeronautical knowledge to bring you to the level required for the Air Transport Pilot Licence.
- In addition, you will learn how to manage a multi crew environment and develop and maintain a safety management system.

# Third Year



- Navigation (Air Transport Pilot Licence)
- Meteorology (Air Transport Pilot Licence)
- Aerodynamics and Aircraft General Knowledge (Air Transport Pilot Licence)
- Aviation Human Factors (Air Transport Pilot Licence)
- Flight Planning, Performance and Loading (Air Transport Pilot Licence)
- Multi Crew Cooperation
- Aviation Safety Management Systems

# Important!



- If you wish to obtain your Commercial Pilot Licence and Command Instrument Rating you will need to complete the **Graduate Diploma of Aviation (Flight Operations)** in addition to the Bachelor of Aviation.
- All practical flight training components beyond first solo in the circuit area of your training aerodrome (BAP) are delivered in the Graduate Diploma.
- You will not be eligible for enrolment in the Graduate Diploma until you have successfully completed the first term of the **Bachelor of Aviation (Flight Operations)**.

# Exit Degrees



Associate Degree of Aviation (Flight Operations)

Diploma of Aviation (Flight Operations)



# Graduate Diploma of Aviation (Flight Operations)

## [GradDipAv (Flight Operations)]

- The Graduate Diploma of Aviation (Flight Operations) will provide you with the aeronautical experience required for a career as a commercial pilot.
- You will build your skills as a pilot, starting with short flights constrained within the aerodrome training area and circuit area right through to commercial pilot licence level.

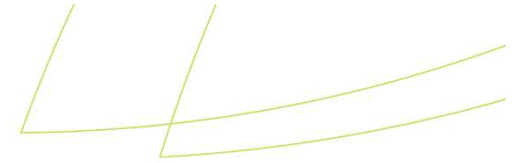


# Graduate Diploma of Aviation (Flight Operations)

## [GradDipAv (Flight Operations)]

- Along the way, you will conduct long distance flights, visiting multiple aerodromes in regional and outback Australia.
- You will be required to attend a flight training provider approved by the Head of Course in order to complete this course.





- You will develop your critical reflection and self-analysis skills as well as analytic, communication and presentation skills.
- During your study, you will gain the aeronautical experience required to apply for a Recreational Pilot Licence, Private Pilot Licence, Command Instrument Rating, and Commercial Pilot Licence.

# First Year



- Aeronautical Practice 1
- Aeronautical Practice 2

# Second Year



- Aeronautical Practice 3
- Aeronautical Practice 4
- Advanced Aeronautical Practice 1

# Third Year



- Advanced Aeronautical Practice 2
- Advanced Aeronautical Practice 3

# Important!



- To enrol in the Graduate Diploma of Aviation you must have successfully completed Term 1 of the first year of the Bachelor of Aviation (Flight Operations) or Associate Degree of Aviation (Flight Operations),
- passed a Class 1 Aviation Medical,
- passed a CASA Aviation English Proficiency Test,
- hold an Australian Security Identification Card, and
- have the approval of the Head of Course

# Important!



- In order to gain both the aeronautical knowledge and aeronautical experience you must study the Graduate Diploma of Aviation and the Bachelor of Aviation or Associate Degree of Aviation concurrently.
- When you graduate from the Graduate Diploma of Aviation you would normally hold a Commercial Pilot Licence (CPL) and a Command Instrument Rating (CIR).

# Funding your Studies

- Bachelor of Aviation:- normal HECS, including BAP
- Graduate Diploma of Aviation:- FEEHELP



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## Any Questions?

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