

## In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



# AVAT12009 Commercial Pilot Licence Navigation

## Term 2 - 2024

Profile information current as at 07/07/2025 07:33 am

All details in this unit profile for AVAT12009 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

## General Information

### Overview

This unit will provide you with knowledge of navigational procedures applicable to light commercial aircraft operations. You will learn the aeronautical knowledge requirements of the Civil Aviation Safety Authority Commercial Pilot Licence Navigation Syllabus. You will learn the form of the Earth including latitude and longitude, magnetic and true poles, and directions. By reference to an aeronautical chart and the various chart projections, you will learn how to navigate an airplane. You will learn to convert between Coordinated Universal Time (UTC) and local mean and standard times. You will also be able to use a navigation computer to convert between various airspeeds and ground speeds and perform critical point calculations.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

Students must meet all requisites: 1. AVAT11002 Basic Aeronautical Knowledge OR (AVAT11012 Aviation Practice AND AVAT11013 Introduction to Aviation); AND 2. AVAT11005 Flight Fundamentals; AND 3. AVAT11010 Aviation Safety Fundamentals OR AVAT11007 Flight Planning, Performance and Operation.

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

### Offerings For Term 2 - 2024

No offerings for AVAT12009

### Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

### Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

## Class and Assessment Overview

### Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

### Class Timetable

#### [Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

#### [Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

### Assessment Overview

#### 1. **Online Test**

Weighting: 30%

#### 2. **Written Assessment**

Weighting: 10%

#### 3. **Examination**

Weighting: 60%

### Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

## CQUniversity Policies

**All University policies are available on the [CQUniversity Policy site](#).**

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

## Previous Student Feedback

### Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

#### Feedback from SUTE

**Feedback**

Break down large navigation problems step by step with each step objective labelled.

**Recommendation**

Detailed procedural methods should be demonstrated for solving complex navigational problems.

#### Feedback from SUTE

**Feedback**

Assessment feedback was insufficient.

**Recommendation**

Update the assessment rubric and feedback format to make it easier to provide detailed feedback.

## Unit Learning Outcomes

**On successful completion of this unit, you will be able to:**

1. Demonstrate competencies on the Navigation components of CPL (Commercial Pilot License); as detailed in Schedule 3 of Part 61, MOS (Manual of Standards) of CASR (Civil Aviation Safety Regulations)
2. Plan and plot a three-leg navigation exercise on a World Aeronautical Chart and provide the flight plan details including various airspeeds and ground speeds for the exercise to be completed in flight
3. Describe the various global navigation chart projections and their use on national flights
4. Convert time zones to Coordinated Universal Time (UTC), Local Mean Time (LMT), and Local Sidereal Time (LST)
5. Explain the operation and limitations of radio navigation aids
6. Discuss the altimetry procedures used on national flights
7. Calculate critical points for normal and asymmetric operations.

N/A

## Alignment of Learning Outcomes, Assessment and Graduate Attributes

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Online Test - 30%	•		•	•	•	•	•
2 - Written Assessment - 10%	•	•					
3 - Examination - 60%	•		•	•	•	•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Communication	•	•	•	•	•	•	•
2 - Problem Solving	•	•		•		•	•
3 - Critical Thinking	•	•	•	•	•	•	•
4 - Information Literacy	•	•	•				
5 - Team Work							
6 - Information Technology Competence		•			•		•
7 - Cross Cultural Competence							
8 - Ethical practice							
9 - Social Innovation		•					
10 - Aboriginal and Torres Strait Islander Cultures							

## Textbooks and Resources

### Textbooks

AVAT12009

#### Supplementary

#### Navigation for the Private & Commercial Pilot Licences

Edition: Reprinted 2016 (2016)

Authors: Robson D.

Aviation Theory Centre Pty Ltd

Brisbane , Qld , Australia

ISBN: 978-875537-85-3

Binding: Other

### IT Resources

**You will need access to the following IT resources:**

## Referencing Style

Information for Referencing Style has not been released yet.

This unit profile has not yet been finalised.

## Teaching Contacts

Information for Teaching Contacts has not been released yet.

This unit profile has not yet been finalised.

## Assessment Tasks

Information for Assessment Tasks has not been released yet.

This unit profile has not yet been finalised.

## Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.