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

AVAT13028 *Advanced Aviation Theory*
Term 1 - 2027

Profile information current as at 12/11/2026 10:50 am

All details in this unit profile for AVAT13028 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

It is strongly recommended that this unit be studied only after completing at least five hours of solo cross-country navigation, thereby establishing an essential foundation of practical experience. Closely aligned with the Civil Aviation Safety Authority (CASA) Instrument Rating Examination (IREX) syllabus, the unit provides a comprehensive study of Instrument Flight Rules (IFR) procedures together with the associated domains of flight planning and aviation meteorology. As part of the learning experience, you will critically analyse a theoretical Required Navigation Performance (RNP) Instrument Approach Procedure that incorporates holding patterns and missed-approach segments. The unit also explores pressure altimetry, aircraft systems, aerodynamics, and the principles of Performance-Based Navigation (PBN), with particular emphasis on both ground- and space-based instrument systems. Adequate preparation for the non-compulsory external CASA examination may involve developing additional knowledge and application skills.

Details

Career Level: *Undergraduate*
Unit Level: *Level 3*
Credit Points: *12*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

Prerequisites: AVAT12006, AVAT12008, AVAT12009 AND AVAT12011. Recommended: At least five hours of solo cross-country navigation experience.
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 1 - 2027

- Cairns
- Online

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

Information for Class and Assessment Overview has not been released yet.
This information will be available on Monday 11 January 2027

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
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- 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.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 11 January 2027

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Information for Alignment of Learning Outcomes, Assessment and Graduate Attributes has not been released yet.
This information will be available on Monday 11 January 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 11 January 2027

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.
This unit profile has not yet been finalised.