

Profile information current as at 07/06/2025 09:56 pm

All details in this unit profile for AVAT12012 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.

Corrections

Unit Profile Correction added on 13-09-21 Currently, this unit has the following two assessment components: (a) 10 online quizzes = (40%) , hurdle 50% pass rate (b) Invigilated Exam = (60%), hurdle 50% pass rate This amendment replaces the invigilated exam (60%) with an online test (60%). The online test will be held at the same time and date as the previously scheduled exam in the exam timetable for T2/2021.

General Information

Overview

Instrument Flight Rules and Procedures will provide you with the knowledge of instrument flight rules and procedures that are required for the issue of the Command Instrument Rating (CIR). You will cover the aeronautical knowledge requirements of the Civil Aviation Safety Authority's Instrument Rating syllabus. You will study the operational knowledge required of a Command Instrument Rating and the meteorological conditions which categorise Instrument Meteorological Conditions (IMC). You will also study small commercial aircraft Instrument Flight Rules flight planning including the use of space and ground-based instrument systems. You will also learn the principles of performance-based navigation including area navigation and required navigation performance.

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

Prerequisites: AVAT12009 Navigation (Commercial Pilot Licence), AVAT12008 Meteorology (Commercial Pilot Licence) and AVAT11006 Aviation Law

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 <u>Assessment Policy and</u> <u>Procedure (Higher Education Coursework)</u>.

Offerings For Term 2 - 2021

- Bundaberg
- Cairns
- Online
- Perth

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

 Online Quiz(zes) Weighting: 40%
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 <u>University's Grades and Results Policy</u> 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 <u>CQUniversity Policy site</u>.

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 Student Feedback

Feedback

The lectures and tutorials need to be on separate days if possible for students to have time to absorb the knowledge given in the lecture.

Recommendation

This request will be implemented subject to timetabling availability. If not possible, tutorials will be decelerated by a week and taken out of sync to allow enough study time for the lecture content.

Feedback from Student Feedback

Feedback

The support and teaching quality is very good and the demonstrated knowledge in the subject by the lecturer is very high. Questions about the content and beyond are answered in a very timely manner. The offered quizzes throughout the term are a helpful study tool.

Recommendation

These practises will be continued.

Feedback from UC observation

Feedback

Student attendance in lectures and tutorials was minimal during the term. Only 4 out of 37 students showed up regularly for lectures and tutorials. Given the complexity of the content, this has resulted in poor student outcomes.

Recommendation

The necessity of student attendance during lectures will be emphasised during the beginning of the term. Exercises will be added to further effectuate student collaborations with the necessity of student attendance for lectures and tutorials. Further, tutorials will not be recorded any more in order to increase student participation.

Unit Learning Outcomes

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

- 1. Describe general operations and procedures related to the Instrument Rating
- 2. Reflect on procedures for flight under the instrument flight rules
- 3. Critically evaluate an Instrument Flight Rules flight plan
- 4. Explain the use of ground and space-based navigation systems
- 5. Discuss the principle and use of performance-based navigation
- 6. Reflect on the human factors issues related to Instrument Meteorological Conditions.

N/A

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Online Quiz(zes) - 40%	•	•	•	•	•	•
2 - Examination - 60%	٠	•	٠	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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						
Alignment of Assessment Tasks to Graduate Attributes						

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Online Quiz(zes) - 40%	•	•	•	•				•		
2 - Examination - 60%	•	•	•			•				

Textbooks and Resources

Textbooks

AVAT12012

Prescribed

Instrument Rating

(2018) Authors: Robson, David Aviation Theory Centre Pty Ltd Brisbane , QLD , Australia ISBN: 9781875537051 Binding: Paperback AVAT12012

Supplementary

Instrument Rating Study Guide

Authors: Tait, Bob Bob Tait's Aviation Theory School Brisbane , Queensland , Australia Binding: Paperback

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing style: <u>American Psychological Association 7th Edition (APA 7th</u> edition)

For further information, see the Assessment Tasks.

Teaching Contacts

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Schedule

Week 1 - 12 Jul 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Instruments Meteorology	Chapter 1 Chapter 2	Lecture and tutorial Quizzes 1 and 2 at appointed time
Week 2 - 19 Jul 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Radar NDB and ADF	chapter 3 chapter 4	Lecture and tutorial

Week 3 - 26 Jul 2021		
Module/Topic	Chapter	Events and Submissions/Topic
VOR	Chapter 5	Lecture and tutorial
DME	Chapter 6	Quizzes 3 and 4 at appointed time
Week 4 - 02 Aug 2021		
Module/Topic	Chapter	Events and Submissions/Topic
ILS Pilot qualifications and suitability	Chapter 7 Chapter 8	Lecture and tutorial
Week 5 - 09 Aug 2021	Chantor	Events and Submissions/Tenis
Australian aviation desuments	Chapter	Events and Submissions/Topic
Preparing for an IFR flight	Chapter 10	Lecture and tutorial
Vacation Week - 16 Aug 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 23 Aug 2021		
Module/Topic	Chapter	Events and Submissions/Topic
IFR Departures	Chapter 11	Lecture and Tutorial
En-route Operations	Chapter 12	Quizzes 5 and 6 at appointed time
Week 7 - 30 Aug 2021		
Module/Topic	Chapter	Events and Submissions/Topic
IFR arrivals Holding patterns, reversals and DME	Chapter 13	Lecture and tutorial
arcs	Chapter 14	Quizzes 7 and 8 at appointed time
Week 8 - 06 Sep 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Instrument Approaches Visual Manoeuvring	Chapter 15 Chapter 16	Lecture and tutorial
Week 9 - 13 Sep 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Instrument Flying Technique Abnormal Operations	Chapter 17 Chapter 18	Lecture and tutorial Quizzes 9 and 10 at appointed time
Week 10 - 20 Sep 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Automatic Flight Systems Performance-Based Navigation	Chapter 19 Chapter 20	Lecture
Week 11 - 27 Sep 2021		
Module/Topic	Chapter	Events and Submissions/Topic
RNAV Systems	Chapter 21	Lecture and tutorial
Week 12 - 04 Oct 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Human Factors	Chapter 22	Lecture and tutorial
Review/Exam Week - 11 Oct 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Q & A Revision	All chapters	Lecture
Exam Week - 18 Oct 2021		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Online Quizzes

Assessment Type Online Quiz(zes)

Task Description There will be 10 online quizzes over the first weeks in the term.

Number of Quizzes

10

Frequency of Quizzes

Assessment Due Date

Return Date to Students

Weighting

40%

Minimum mark or grade 50%

Assessment Criteria No Assessment Criteria

Referencing Style

<u>American Psychological Association 7th Edition (APA 7th edition)</u>

Submission

Online

Learning Outcomes Assessed

- Describe general operations and procedures related to the Instrument Rating
- Reflect on procedures for flight under the instrument flight rules
- Critically evaluate an Instrument Flight Rules flight plan
- Explain the use of ground and space-based navigation systems
- Discuss the principle and use of performance-based navigation
- Reflect on the human factors issues related to Instrument Meteorological Conditions.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Ethical practice

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting 60%

Length 120 minutes

Minimum mark or grade

50

Exam Conditions Restricted. Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments). Calculator - non-programmable, no text retrieval, silent only

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the <u>Student Academic</u> <u>Integrity Policy and Procedure</u>. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the <u>Academic Learning Centre (ALC)</u> can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem