



# AVAT11012 *Introduction to Flight Operations*

## Term 2 - 2023

Profile information current as at 19/05/2024 03:58 am

All details in this unit profile for AVAT11012 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

In Aviation Practice, you will learn how to use checklists for single-pilot operation flying, which will support your development towards multiple crew operations. In the flight simulation labs, you will learn the proper use and effect of primary and ancillary controls on the ground and in the air. You will fly simulated air exercises including: straight and level, climbing, descending, turning, and stalling. You will demonstrate flying the circuit pattern with air traffic control procedures and phraseology as part of your final assessment. The simulation will utilise the Lockheed Martin Prepared 3D software.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

There are no requisites for this unit.

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 - 2023

- Cairns
- Mixed Mode

### 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).

### Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

### 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 Quiz(zes)**

Weighting: 30%

#### 2. **In-class Test(s)**

Weighting: 30%

#### 3. **Direct observation of procedural skills (DOPs)**

Weighting: 40%

### 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](#).

## Unit Learning Outcomes

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

1. Apply appropriate aviation terminology
2. Explain the proper use of aviation procedures
3. Demonstrate effective decision-making skills in a flight environment
4. Demonstrate proper aircraft handling techniques in a safe and correct manner in a simulated flight.

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
1 - Online Quiz(zes) - 30%	•	•		
2 - In-class Test(s) - 30%		•	•	•
3 - Direct observation of procedural skills (DOPs) - 40%	•		•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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

**There are no required textbooks.**

#### Additional Textbook Information

All material will be provided online.

### 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: [American Psychological Association 7th Edition \(APA 7th edition\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Aruna Ranganathan** Unit Coordinator

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## Schedule

### Week 1 - 10 Jul 2023

Module/Topic

Chapter

Events and Submissions/Topic

Aircraft and Terminology.

### Week 2 - 17 Jul 2023

Module/Topic

Chapter

Events and Submissions/Topic

Radio Communications.

### Week 3 - 24 Jul 2023

Module/Topic

Chapter

Events and Submissions/Topic

Structure, Propulsion, Fuel systems.

### Week 4 - 31 Jul 2023

Module/Topic

Chapter

Events and Submissions/Topic

Electrical, Hydraulic systems and Instruments.

### Week 5 - 07 Aug 2023

Module/Topic

Chapter

Events and Submissions/Topic

Air Law.

**Test No 1** Due: Week 5 Monday (7 Aug 2023) 11:45 pm AEST

**Vacation Week - 14 Aug 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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**Week 6 - 21 Aug 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Aerodynamics - Basics.

**Week 7 - 28 Aug 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Aerodynamics -  
Performance.

**Week 8 - 04 Sep 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Meteorology.

**Week 9 - 11 Sep 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Loading.

**Week 10 - 18 Sep 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Take-off and Landing  
performance.

**Test No 2** Due: Week 10 Monday (18  
Sept 2023) 11:45 pm AEST

**Week 11 - 25 Sep 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Residential Week - 1

Flight Practice through Desktop  
Simulator.

**Week 12 - 02 Oct 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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Residential Week - 2

Flight Practice through Desktop  
Simulator.

**Review/Exam Week - 09 Oct 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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**Exam Week - 16 Oct 2023**

Module/Topic	Chapter	Events and Submissions/Topic
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## Term Specific Information

This unit has one week of residential component for each student, which will be delivered in Cairns Airport Campus (Simulator sessions in Desktop PC).

The cohort will be split into two groups.

The first group will complete their residential coursework in week 11 and the second group in week 12.

Details of students/groups/dates and timings for Simulator sessions will be promulgated in week 2.

## Assessment Tasks

### 1 Test No 1

**Assessment Type**

Online Quiz(zes)

**Task Description**

Syllabus covered in week one to four.

**Number of Quizzes****Frequency of Quizzes****Assessment Due Date**

Week 5 Monday (7 Aug 2023) 11:45 pm AEST

**Return Date to Students****Weighting**

30%

**Assessment Criteria**

No Assessment Criteria

**Referencing Style**

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

**Submission**

Online

**Learning Outcomes Assessed**

- Apply appropriate aviation terminology
- Explain the proper use of aviation procedures

## 2 Test No 2

**Assessment Type**

In-class Test(s)

**Task Description**

Syllabus covered in week five to nine.

**Assessment Due Date**

Week 10 Monday (18 Sept 2023) 11:45 pm AEST

**Return Date to Students****Weighting**

30%

**Assessment Criteria**

No Assessment Criteria

**Referencing Style**

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

**Submission**

Online

**Learning Outcomes Assessed**

- Explain the proper use of aviation procedures
- Demonstrate effective decision-making skills in a flight environment
- Demonstrate proper aircraft handling techniques in a safe and correct manner in a simulated flight.

## 3 Simulator Training

**Assessment Type**

Direct observation of procedural skills (DOPs)

**Task Description**

Assessment will be based on basic flight principles taught in Residential school.

**Assessment Due Date****Return Date to Students****Weighting**

40%

**Assessment Criteria**

No Assessment Criteria

**Referencing Style**

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

**Submission**

No submission method provided.

**Learning Outcomes Assessed**

- Apply appropriate aviation terminology
- Demonstrate effective decision-making skills in a flight environment
- Demonstrate proper aircraft handling techniques in a safe and correct manner in a simulated flight.

## 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 [Student Academic Integrity Policy and Procedure](#). 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 [Academic Learning Centre \(ALC\)](#) 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