



AVAT11003 *Basic Aeronautical Practice*

Term 1 - 2020

Profile information current as at 02/10/2022 02:37 pm

All details in this unit profile for AVAT11003 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 Basic Aeronautical Practice you will receive basic flight training in the training area and circuit area prior to your first solo flight. This unit will provide you with up to 13 hours of basic aeronautical experience in a small general aviation aeroplane. You will learn how to control an aircraft and maintain it at a constant altitude, heading and speed. You will learn how to change altitude, make turns and manoeuvre the aircraft. You will learn how to recognise the symptoms of entry and how to recover from a stall. This should enable you to fly as pilot in command of an aircraft in the circuit area of the training aerodrome. You will be required to attend a flight training provider approved by the Head of Course in order to complete this unit.

Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

Co-requisite: AVAT11002 Basic Aeronautical Knowledge

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 - 2020

- 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 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 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: Pass/Fail

2. **Practical Assessment**

Weighting: Pass/Fail

Assessment Grading

This is a pass/fail (non-graded) unit. To pass the unit, you must pass all of the individual assessment tasks shown in the table above.

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 Students

Feedback

There needs to be more communication to the students as to when a student needs to obtain the ARN, ASIC, Grade 1 Medical and ELP

Recommendation

A checklist was included on the Moodle site and students informed that they had to work through the checklist now.

Feedback from Flight Providers

Feedback

Lack of knowledge of briefings

Recommendation

The midterm assessment was continued in the offering to encourage students to learn the flight theory before presenting to the flight schools.

Feedback from Unit Coordinator

Feedback

Student engagement among online students is very low

Recommendation

Try to develop strategies to increase student engagement and communication among online students.

Feedback from Head of Course

Feedback

Systems need to be introduced to encourage more timely reporting of student outcomes by the flight providers.

Recommendation

That an Operations Manager is employed and a system put in place to manage the student reporting from the flight providers.

Unit Learning Outcomes

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

1. Explain how to fly an aeroplane in all manoeuvres involved in a circuit and approach to a runway
2. Control an aircraft translationally and rotationally in flight
3. Fly an aircraft at a constant altitude, heading and airspeed
4. Manoeuvre an aircraft to nominated altitude at constant airspeed and heading
5. Perform various turns on to a particular heading
6. Recognise the symptoms and recover from a stall
7. Fly a circuit and approach to a runway under various conditions
8. Communicate appropriately with aeronautical staff.

N/A. No external accreditation

Alignment of Learning Outcomes, Assessment and Graduate Attributes



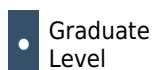
N/A
Level



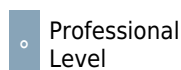
Introductory
Level



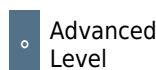
Intermediate
Level



Graduate
Level



Professional
Level



Advanced
Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes							
	1	2	3	4	5	6	7	8
1 - Online Test - 0%	•							
2 - Practical Assessment - 0%		•	•	•	•	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes							
	1	2	3	4	5	6	7	8
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 Test - 0%		•	•					•		
2 - Practical Assessment - 0%	•	•	•		•					

Textbooks and Resources

Textbooks

AVAT11003

Prescribed

Basic Aeronautical Knowledge including Human Factors

(2018)

Authors: David Robson

Aviation Theory

Brisbane , QLD , Australia

Binding: Hardcover

Additional Textbook Information

The new version of the book is split over two books:

1. Basic Aeronautical Practise for the RPL
2. Human Being Pilot

For those who can't purchase the old single book version, you will need to purchase the above mentioned books together. The single book is available for purchase from the CQUni Bookshop here: <http://bookshop.cqu.edu.au>

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 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Arno Mueckenhausen Unit Coordinator

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Aruna Ranganathan Unit Coordinator

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Schedule

Week 1 - 09 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Basic Aeronautical Knowledge Effects of Controls Flight Lecture		All lectures will be available through Moodle

Week 2 - 16 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Straight and Level and Climbing and Descending Flight Lectures		All lectures will be available through Moodle

Week 3 - 23 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Medium Level Turns, Climbing and Descending Turns Flight Lectures

All lectures will be available through Moodle

Week 4 - 30 Mar 2020

Module/Topic

Chapter

Events and Submissions/Topic

Stalling and Circuits Flight Lectures

All lectures will be available through Moodle

Week 5 - 06 Apr 2020

Module/Topic

Chapter

Events and Submissions/Topic

Flight School Visits

Undertaken at the flight school

Vacation Week - 13 Apr 2020

Module/Topic

Chapter

Events and Submissions/Topic

Flight School Visits

Undertaken at the flight school

Week 6 - 20 Apr 2020

Module/Topic

Chapter

Events and Submissions/Topic

Effects of Controls and Straight and Level Flight Practical

This will be a 2 hour test on the flight briefings and lectures. A pass in this test is required before beginning flight practicals. Flight practicals undertaken at flight school.

Week 7 - 27 Apr 2020

Module/Topic

Chapter

Events and Submissions/Topic

Climbing and Descending and Medium Level Turns Flight Practical

Week 8 - 04 May 2020

Module/Topic

Chapter

Events and Submissions/Topic

Climbing and Descending and Medium Level Turns Flight Practical

Week 9 - 11 May 2020

Module/Topic

Chapter

Events and Submissions/Topic

Circuits Flight Practical

Week 10 - 18 May 2020

Module/Topic

Chapter

Events and Submissions/Topic

Circuits and Flapless Circuits Flight Practical

Week 11 - 25 May 2020

Module/Topic

Chapter

Events and Submissions/Topic

Circuits and Glide Approaches Flight Practical

Week 12 - 01 Jun 2020

Module/Topic

Chapter

Events and Submissions/Topic

Engine Failures After Take-off and Solo Circuit Flight Practical

Review/Exam Week - 08 Jun 2020

Module/Topic

Chapter

Events and Submissions/Topic

Exam Week - 15 Jun 2020

Module/Topic

Chapter

Events and Submissions/Topic

Flight Practical Examination

Assessment Tasks

1 Online Test

Assessment Type

Online Test

Task Description

This will be a 2 hour test on the flight briefings and lectures. The test needs to be passed with $\geq 70\%$ and must be taken before the beginning of the flight practicals.

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

Pass/Fail

Minimum mark or grade

70%

Assessment Criteria

This will be a series of short answer and multiple choice questions.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Submission Instructions

Test will be done online

Learning Outcomes Assessed

- Explain how to fly an aeroplane in all manoeuvres involved in a circuit and approach to a runway

Graduate Attributes

- Problem Solving
- Critical Thinking
- Ethical practice

2 Practical Flight Test.

Assessment Type

Practical Assessment

Task Description

In order to pass the Practical Flight Test a student will need to perform all flight manoeuvres at first solo standard.

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

Pass/Fail

Assessment Criteria

In order to pass the Practical Flight Test a student will need to perform all flight manoeuvres to first solo standard.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

No submission method provided.

Learning Outcomes Assessed

- Control an aircraft translationally and rotationally in flight
- Fly an aircraft at a constant altitude, heading and airspeed
- Manoeuvre an aircraft to nominated altitude at constant airspeed and heading

- Perform various turns on to a particular heading
- Recognise the symptoms and recover from a stall
- Fly a circuit and approach to a runway under various conditions
- Communicate appropriately with aeronautical staff.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Team Work

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