



AVAT12005 Aviation Flight Training

Term 2 - 2017

Profile information current as at 26/05/2022 10:03 pm

All details in this unit profile for AVAT12005 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 is the practical flying component that teaches students the basics of Recreational Flying through a Recreation Aviation Australia Flight School. Students will fly a small training aircraft and do all necessary actions and procedures to operate it safely. Students will fly approximately 20 hours learning to Aviate, Navigate, and Communicate while in a Recreational Aircraft under the supervision of an instructor and RA-AUS flight school. This unit intends to give the aviation student an introduction to powered flight and the opportunity to match theory with application. A Pilot Certificate will not be awarded from this unit although the 20 hours can be used towards the RA-AUS Pilot Certificate.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

AVAT11001

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 - 2017

- Bundaberg
- Distance

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. **Practical Assessment**

Weighting: 100%

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 Have Your Say

Feedback

Ron Bishop is, without a doubt, the best aspect of this course (followed closely by the actual course itself). When I needed additional support, guidance and assistance, Ron was very easy to contact, even outside of business hours. This is actually a big deal for a distance student, when it's quite easy to feel somewhat "separated" from the uni. Ron should be commended for his excellent communication with students.

Recommendation

Keep up the good work and keep improving.

Feedback from Have Your Say

Feedback

I give this course an easy 10/10, both for what it provides to students of aviation and also for the support provided by Ron.

Recommendation

Keep up the good work and keep improving.

Feedback from Have Your Say

Feedback

However, my initial difficulties were quickly resolved and I have to thank Ron Bishop for his advice and guidance, in this regard. Within a week, I was able to obtain the necessary paperwork and communication I required, to ensure my enrolment at a suitable flying school, and this is due to Ron's excellent assistance.

Recommendation

Keep up the communication processes and improve the method how students are informed.

Unit Learning Outcomes

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

1. Operate a Recreation Aviation Training aircraft in different phases of flight and pass the Basic Aeronautical Knowledge (BAK) test.
2. List emergency procedures, appropriate actions and equipment needed in the safe operation of a recreational aircraft.
3. Use flight controls, effectors, and gauges required for the normal operation of an aircraft.
4. Describe the different parts, systems and sub-systems of an aircraft that enable powered flight.
5. Describe the different flight controls and their effects on an aircraft in flight.
6. Apply theory and locate information to describe principles of powered flight.
7. Plan for a day's flight considering theory, knowledge, resources and environmental factors.

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	7
1 - Practical Assessment - 100%	•	•	•	•	•	•	•

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							

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Practical Assessment - 100%	•	•	•	•				•		

Textbooks and Resources

Textbooks

There are no required textbooks.

Additional Textbook Information

Basic Aeronautical Knowledge Textbook will be helpful in this unit although not mandatory. It is the textbook required in AVAT 11001.

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: [Harvard \(author-date\)](#)
For further information, see the Assessment Tasks.

Teaching Contacts

Ron Bishop Unit Coordinator
r.bishop@cqu.edu.au

Schedule

Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Manage Pre and Post flight Actions	Review theory and application in lectures and tutorials. See Moodle for more information. Complete pre and post flight administration Pre-flight inspection Perform and certify daily inspection Start and stop engine Taxi aeroplane Manage engine handling on the in accordance with (IAW) flight manual/POH Perform and certify daily inspection IAW aeroplane system of maintenance as required by the Recreational Aviation Australia, Inc.	

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Control aeroplane on the Ground	Review theory and application in lectures and tutorials. See Moodle for more information. Start and Stop Engine Taxi Aeroplane Taxi clearance/call IAW prevailing aerodrome procedures Engine handling on the ground	

Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Submit Paperwork/Flight School
Quotes for flying.
Submit paperwork to CQUniversity
to Emma at g.jing@cqu.edu.au
Take off aeroplane

Submit paperwork to CQUniversity
to Gina at g.jing@cqu.edu.au
Carry out pre-take-off procedures
Pre-take off procedures are completed
IAW checklists
Take off Aeroplane
Carry out after take off procedures

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Receive approval to fly. Do not fly before census date. Control Aeroplane in normal flight	Review theory and application in lectures and tutorials. See Moodle for more information. Climb aeroplane Maintain straight and level flight Descend aeroplane Turn aeroplane Control aeroplane at low speeds	

Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Control Aeroplane in normal flight	Review theory and application in lectures and tutorials. See Moodle for more information. Perform circuits and approaches Comply with Aerospace Requirements	

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Manage Engine Failure in Circuit	Select proper landing area Initiate restart procedures IAW flight manual/POH	

Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Execute Advanced Manoeuvres and Procedures	Recover from stall Recover from spin Steep Turns Side slip aircraft	

Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Execute Advanced Manoeuvres and Procedures	Execute short take-off and landing Calculate Take-off performance Land aircraft at nominated touch down point +200 ft (60 metres) at minimum speed with maximum braking applied	

Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Manage Abnormal Situations	Manage engine failure after take off Perform immediate actions IAW flight manual/POH with due to low drag/higher inertia design Select proper emergency landing area	

Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Perform forced landing	Landing within power off glide distance Control Landing Initiate Mayday call	

Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic

Manage Abnormal Situations	Fuel problems Electrical failure Airframe Flight instrument failure smoke Ground/Taxi Fire Ditching Aircraft Maintain control of aircraft In-flight Fire
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Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Fuel Management	Plan fuel requirements Manage fuel system Refuel aircraft	

Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic

Review/Exam Week - 09 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 16 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

From week one you will be contacting flight schools in your area in regards to flight training. A quote from three flight schools is required to submit to the University for approval. The maximum payment is \$4000.00 worth of flight training. The quote must reflect that. Liaison with the lecturer or tutor of this unit if you have any questions in regards to what is required from you and the flight school.
No flying is authorized until after consensus date.

Assessment Tasks

1 Practical Assessment

Assessment Type

Practical Assessment

Task Description

This is a Pass/Fail unit. The lecturer will liaison with the flight school CFI or representative to determine your grade. Each flight will be assessed by the flight instructor. A flight school's recommendation to continue flight training or proceed to SOLO is the requirement to pass. Not meeting these requirements is a possible fail. The lecturer and/or tutor can be contacted for additional study. The simulator at Bundaberg Campus may be used to increase skills. See Moodle for theory and tutorials of flying.

Assessment Due Date

All flying (up to 20 hours depending on the flight school you choose) must be completed by the end of week 12. Extensions may be submitted for weather, maintenance, etc.

Return Date to Students

Review/Exam Week Friday (13 Oct 2017)

Weighting

100%

Assessment Criteria

In Accordance With Recreational Aviation Australia and/or General Aviation flight training requirements.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Offline Online

Submission Instructions

Flight schools/Student must submit training progress report by end of week 12

Learning Outcomes Assessed

- Operate a Recreation Aviation Training aircraft in different phases of flight and pass the Basic Aeronautical Knowledge (BAK) test.
- List emergency procedures, appropriate actions and equipment needed in the safe operation of a recreational aircraft.
- Use flight controls, effectors, and gauges required for the normal operation of an aircraft.
- Describe the different parts, systems and sub-systems of an aircraft that enable powered flight.
- Describe the different flight controls and their effects on an aircraft in flight.
- Apply theory and locate information to describe principles of powered flight.
- Plan for a day's flight considering theory, knowledge, resources and environmental factors.

Graduate Attributes

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

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