

In Progress

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



ENTA13022 *Remote Piloted Aircraft Systems*

Term 2 - 2026

Profile information current as at 28/07/2026 03:44 am

All details in this unit profile for ENTA13022 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

The unit will provide you with the fundamental knowledge of Remote Piloted Aircraft Systems technology. You will explore current and future developments of Remote Piloted Aircraft Systems applications such as surveying, photography, inspections, agriculture, and mining with a focus on applying automation in these areas. You will cover important elements of Remote Piloted Aircraft Systems operations, including weight and balance on design and structure. You will also evaluate the impact of the various navigation systems on Remote Piloted Aircraft Systems applications and will have exposure to other aspects associated with operating a Remote Piloted Aircraft such as Human Factors, Air Legislation, and Meteorology. You will get the opportunity to select components, and assemble, operate and maintain a Remote Piloted Aircraft System to support a given scenario. At the end of this unit, you will be able to build and fly a Remote Piloted Aircraft. If you complete the optional residential school activity, you will be eligible to apply for Certificate III in Aviation (Remote Pilot) and the Australian Civil Aviation Safety Authority Remote Pilot License and Aeronautical Radio Operator Certificate.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Prerequisites: Completion of 72cps.

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 - 2026

- 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

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. Written Assessment

Weighting: 20%

2. Practical Assessment

Weighting: 20%

3. Online Quiz(zes)

Weighting: 30%

4. Project (applied)

Weighting: 30%

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](#).

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 SUTE

Feedback

Some students had difficulties completing practical tasks.

Recommendation

Greater care should be exercised to ensure students receive the correct components to complete the practical aspects of the course

Feedback from SUTE

Feedback

Student satisfaction with the usefulness of assessment feedback remains low.

Recommendation

Marking rubrics, assignment instructions, and feedback provided should be reviewed for clarity and relevance to the unit and course.

Unit Learning Outcomes

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

1. Compare different types of Remote Piloted Aircraft Systems applications, associated structural devices, and their integration into a working unit
2. Demonstrate problem-solving skills by assembling components, and operating and maintaining a Remote Piloted Aircraft System
3. Reflect and report on the impact of the various navigation systems, human factors, and meteorology on Remote Piloted Aircraft operations
4. Build and fly a Remote Piloted Aircraft safely and competently
5. Provide evidence of a professional capacity to communicate, work and learn individually and in a team by completing a mini-project.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

—	N/A Level	•	Introductory Level	•	Intermediate Level	•	Graduate Level	•	Professional Level	•	Advanced Level
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Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Written Assessment - 20%	•	•	•		
2 - Practical Assessment - 20%				•	•
3 - Online Quiz(zes) - 30%	•		•		
4 - Project (applied) - 30%		•		•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - First Nations Knowledges					
11 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

Information for Textbooks is not yet available.
The textbooks have not yet been finalised.

IT Resources

You will need access to the following IT resources:

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

Referencing Style

Information for Referencing Style has not been released yet.
This unit profile has not yet been finalised.

Teaching Contacts

Information for Teaching Contacts has not been released yet.
This unit profile has not yet been finalised.

Schedule

Information for Schedule has not been released yet.
This unit profile has not yet been finalised.

Assessment Tasks

Information for Assessment Tasks has not been released yet.
This unit profile has not yet been finalised.

Academic Integrity Statement

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