

## In Progress

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



# ENTA13021 Aircraft Communication Systems

## Term 1 - 2023

Profile information current as at 19/05/2024 10:19 am

All details in this unit profile for ENTA13021 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

Communication systems are an essential component of modern manned and unmanned aircraft. In this unit, you will learn about the advanced communication technologies and networks used in the aviation industry. You will study the communication technologies, standards and protocols that form the backbone of all modern communication systems and various techniques to analyse and design simple communication networks to meet real-world requirements. You will study the various communication technologies and equipment used in modern aircraft and mechanisms that are utilised to enable high-speed communications between aircraft, ground stations and satellites.

### 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

Prerequisite: Automatic Flight Control and Communication Systems

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 - 2023

No offerings for ENTA13021

### 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

#### 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. Explain the operation of modern aircraft data communications network devices, data links and systems
2. Apply mathematical analytical techniques to calculate capacity requirements of aircraft communication networks
3. Design antennas to meet given aviation communication requirements
4. Design simple aircraft communication networks using appropriate tools
5. Evaluate communication technologies, standards, and protocols to satisfy aviation communication requirements
6. Create professional documentation of the solutions, designs and analysis process using electrical terminology, diagrams and symbols that conform to relevant standards.

## 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	6
1 - Online Quiz(zes) - 20%	•	•				
2 - Written Assessment - 30%	•	•	•		•	•
3 - Report - 50%			•	•	•	•

## 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) - 20%		•	•							
2 - Written Assessment - 30%	•	•	•	•		•				
3 - Report - 50%	•	•	•	•		•	•			

## Textbooks and Resources

### Textbooks

**There are no required textbooks.**

### IT Resources

**You will need access to the following IT resources:**

## 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.

## 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.