

## In Progress

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



# **ENEE13019 *Control Systems Analysis and Design***

## **Term 2 - 2026**

Profile information current as at 05/12/2025 02:11 pm

All details in this unit profile for ENEE13019 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

Automatic control systems are fundamental to our way of life, including electrical power, electronics, automation and robotics. In this unit, you will work individually and also in teams to model, analyse, and investigate design options for analogue and digital control systems. You will articulate typical control systems building blocks and select appropriate components and interfaces for specific applications. In addition, you will develop mathematical models to analyse the behaviour of selected dynamic systems and design their controllers. You will apply simulation software to analyse and simulate the control systems. This unit will provide you with the opportunities to practice your communication skills through developing technical documentation and reports. All students must have access to a computer, frequently use the Internet, and complete the compulsory practical activities. Furthermore, the unit also aims to promote the UN sustainable development Goal 9 - Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation by developing an understanding of how to build resilient and sustainable automation and intelligence systems to support industrial innovation.

### 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: (ENEE13020 Digital Electronics or ENEX12002 Introductory Electronics) and ENEE12016 Signals and 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 2 - 2026

- Bundaberg
- Cairns
- Gladstone
- Mackay
- Mixed Mode
- Rockhampton

### 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

Information for Class and Assessment Overview has not been released yet.

This information will be available on Monday 18 May 2026

## 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**

Provide clear unit requirements.

**Recommendation**

Unit requirements should be explained during week 1 lecture and further clarification should be given close to Assessment dates and lab session dates.

#### Feedback from SUTE

**Feedback**

Introduce mechanisms to further improve student engagement with the unit learning content.

**Recommendation**

Mandatory mid-term checkpoint submission of the student project should be introduced to encourage student engagement with the project and learning content as the term progresses.

#### Feedback from SUTE

**Feedback**

Improve mechanisms to provide feedback to student learning.

**Recommendation**

With the mandatory mid-term checkpoint submission of the student project, individual project meetings should also be introduced to provide personalised feedback and better guidance on engaging with the unit's learning content.

#### Feedback from SUTE

**Feedback**

The relevance of the curriculum to the course and future careers could be improved.

**Recommendation**

More intense explanations should be provided to students for them to be able to understand the relevance between the fundamentals taught in this unit and their application on real-world problems when they become practicing engineers.

#### Feedback from SUTE

**Feedback**

Increase the number of student responses in the survey.

**Recommendation**

Students should be further encouraged to respond to the survey.

## Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 18 May 2026

## Alignment of Learning Outcomes, Assessment and Graduate Attributes

Information for Alignment of Learning Outcomes, Assessment and Graduate Attributes has not been released yet.

This information will be available on Monday 18 May 2026

## Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 22 June 2026

## Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.