

In Progress

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



ENAE12003 Control Technology

Term 2 - 2025

Profile information current as at 05/09/2024 01:44 pm

All details in this unit profile for ENAE12003 have been officially approved by CQU University 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 will introduce you to control systems. You will describe control systems using appropriate terminology and concepts and use mathematical tools to model and analyse control systems and develop algorithms for discrete process control. You will interpret control system responses to standard inputs in order to develop system evaluation criteria, as well as interpreting continuous-time closed-loop system behaviour using time domain and frequency response methods. You will design compensators for closed-loop systems to meet given specifications and describe different approaches to discrete control using common system components and tools and present practical implementations of the controllers using passive and active circuits and discrete processes. You will document modeling and analysis of control systems in a professional manner, and work productively and professionally, both as an individual and as a member of a team. In this unit, you must complete compulsory practical activities. Refer to the Engineering Undergraduate Course Moodle site for proposed dates.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite: ENAE12013 Electrical Components and Circuit Analysis

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 - 2025

- Mixed Mode

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 19 May 2025

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

Forum posts and questions were answered promptly.

Recommendation

This good practice should be continued.

Feedback from SUTE

Feedback

Unit contents were explained very well through lectures and tutorials.

Recommendation

This good practice should be continued.

Feedback from SUTE

Feedback

There is a room for improvement in lecture material.

Recommendation

Un-annotated lecture material should be uploaded to the unit Moodle site.

Feedback from SUTE

Feedback

Students expected more detailed feedback on assessment items and laboratory reports.

Recommendation

Feedback given to student assessments should be improved.

Feedback from SUTE

Feedback

Students have rated the unit content to be less relevant to the degree program.

Recommendation

Importance of Control technology in industrial applications should be better explained during lectures and laboratory sessions.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 19 May 2025

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 19 May 2025

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 23 June 2025

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.