

In Progress

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



ENEE12016 *Signals and Systems*

Term 2 - 2027

Profile information current as at 15/09/2026 10:35 pm

All details in this unit profile for ENEE12016 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

Electrical systems are fundamental to our way of life, including electrical power, telecommunications, and automatic control systems. In this unit, you will learn mathematical techniques to analyse and design a wide range of electrical systems, such as communication, electrical power distribution, and transmission and control systems. You will be introduced to the concept of linear time-invariant systems and several mathematical tools used for system analysis, especially electrical system analysis, such as forward and inverse Laplace transforms, s-domain circuit analysis, and transfer function. You will also be introduced to the frequency response of a system, identify filter types, and design filters for given specifications. Through this unit, you will gain programming experience in using simulation software to analyse signals and linear systems. This unit will provide you with the opportunities to further develop 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 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite: ENEE12014 Electrical 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 - 2027

- 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 17 May 2027

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
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- 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

The unit assessments effectively supported learning.

Recommendation

The key assessment structure should be maintained.

Feedback from SUTE

Feedback

Some mathematical procedures were abstract and challenging for students.

Recommendation

Additional mathematical support should be recommended or provided for students' self-learning outside class.

Feedback from SUTE

Feedback

Incorporating more worked examples and real-world applications would improve understanding of the unit's relevance to essential knowledge, skills, and the engineering degree.

Recommendation

Relevant worked examples and real-world applications should be included in the unit content and explained during class.

Feedback from SUTE

Feedback

Assessment requirements should include more detailed instructions and clearly explained expectations.

Recommendation

Detailed marking rubrics should accompany all assessment tasks.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 17 May 2027

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 17 May 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 21 June 2027

Academic Integrity Statement

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