ENEG13002 *Engineering Futures*
Term 2 - 2025

Profile information current as at 22/12/2024 03:12 am

General Information

Overview

The rapid development of technology continually influences and challenges how engineers practice. In this unit, you will learn about cutting-edge engineering projects incorporating multi-disciplinary teams, innovative methods to advance the United Nation's Sustainable Development Goals, and the application of big data, artificial intelligence, and the Internet of Things. The unit will also present future expectations for practicing engineers such as becoming a Registered Professional Engineer, understanding risk management in a changing world, complying with legislation, and promoting safety in engineering design and workplace operations.

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: ENEG11007 Industry Project Investigation OR ENEG12007 Creative Engineering.
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

- Bundaberg
- Cairns
- Gladstone
- Mackay
- Online
- 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 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

Students expressed appreciation for the guest lectures, highlighting that the assessments provided an excellent departure from the usual routine in the course, and that they thoroughly enjoyed the new different approach in this unit.

Recommendation

This good practice should be maintained.

Feedback from SUTE

Feedback

Students have commented that the application of the topics presented in this unit to real-world engineering projects was not clear.

Recommendation

In future offerings, it is suggested that the application of topics presented during each week's guest lectures should involve real engineering projects.

Feedback from SUTE

Feedback

Students have requested a revision of the quiz questions (assessment one) to ensure they are more relevant to the discussed contents.

Recommendation

In future offerings, it is recommended that quiz questions should be revised to better align with the content covered over the four weeks.

Feedback from SUTE

Feedback

Students have requested a revision of the marking criteria for assignments 2 and 3, as well as more detailed feedback on their assessments (useful feedback).

Recommendation

In future offerings, it is recommended to revise the marking rubrics for assignments 2 and 3 which should enhance clarity and provide more constructive feedback for students' work.

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.