

In Progress

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



ENEG12007 *Creative Engineering*

Term 1 - 2025

Profile information current as at 22/11/2024 01:32 am

All details in this unit profile for ENEG12007 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

Generating ideas, pitching a project proposal, assembling a design team, and creating a development plan are vital skills that enable engineers to establish new projects. This unit takes you through the creative process of prototyping in consultation with stakeholders. Your team must enhance your design idea by seeking external input through continued stakeholder interactions and sharing of several functional prototypes. You will pitch and demonstrate your final design to an audience of peers and professional engineers. You will apply relevant fundamental discipline knowledge and skills, as well as, project management principles. Completing this unit will enable you to discover your creativity while honing skills exhibited by productive and innovative engineers.

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

Prerequisites: ENEG11007 Engineering Industry Project Investigation AND (ENEG11006 Engineering Statics OR ENEG11009 Fundamentals of Sustainable Energy) AND MATH11218 Applied Mathematics AND ENEG11008 Materials for Engineers.

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 - 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 13 January 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

The assignment templated was great and saved a lot of time.

Recommendation

The word templates should continue to be available for student use.

Feedback from SUTE

Feedback

It wasn't clear whether a physical prototype is to be built or not.

Recommendation

We do require some evidence of prototyping. Acceptable prototypes include a reduced-scale physical prototype, computer-aided drawing, 3D printed prototypes, etc. These acceptable types should be discussed better with students.

Feedback from SUTE

Feedback

Distant learning can be challenging during group work.

Recommendation

The cloud-based project management tool, Asana, was introduced for efficient communication among group members. More focus on how this tool can help distant students communicate and work together should be discussed in class.

Feedback from SUTE

Feedback

More help is needed for the final assessment.

Recommendation

An additional lecture should be planned to focus on the requirements of the final assessment.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 13 January 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 13 January 2025

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 17 February 2025

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.