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

ENEM14014 *Capstone Thermofluid Engineering*
Term 1 - 2027

Profile information current as at 12/11/2026 11:06 am

All details in this unit profile for ENEM14014 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

This unit provides you with opportunities to develop and demonstrate your professional capabilities in the field of thermofluid engineering. You will analyse, explain and evaluate the performance of air-conditioning and refrigeration plant; and mass, heat and energy transfer processes in industrial plant and processes. You will describe types and characteristics of fluid machinery, apply the theory of energy transfer to its operation, and analyse complex fluid flows using computational methods. You will then apply discipline theories and methods to design, implementation, operation and maintenance of industrial mechanical systems. You are required to show you can work both individually and collaboratively, to solve problems, and document and communicate their work clearly in a professional manner. 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 4*
Credit Points: *12*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

ENEM13014 Thermodynamics or ENEM12003 Thermodynamics] and ENEM12006 Fluid Mechanics [or ENEM12001 Fluid Mechanics
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 - 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 11 January 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 Unit evaluation.

Feedback
Assessment requirements and its feedback should be clearly described.

Recommendation
More explanation of projects and the process of teamwork should be provided.

Feedback from Unit evaluation.

Feedback
More interaction between students for team assessment is required.

Recommendation
The strategies for effective interaction should be provided.

Feedback from Unit evaluation.

Feedback
Use more real world examples as contents are directly applicable to industry.

Recommendation
More practical examples should be provided.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 11 January 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 11 January 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 11 January 2027

Academic Integrity Statement

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