

In Progress

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



ENEC20005 *Advanced Water Engineering*

Term 2 - 2027

Profile information current as at 05/09/2026 05:53 pm

All details in this unit profile for ENEC20005 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

Advanced Water Engineering will introduce you to different components of the hydrologic cycle that are essential for designing complex water infrastructures. In this unit, you will discuss concepts of probability and uncertainty governing water resources projects. You will estimate design rainfall and losses, and peak flows and volumes for engineering design. You will also be introduced to the design of pipe networks for water supply and collection of wastewater and stormwater. You will also learn how to apply the concept of Water Sensitive Urban Design (WSUD). In completing these tasks, you must use appropriate technical language in written communication and work in teams to solve problems.

Details

Career Level: *Postgraduate*

Unit Level: *Level 9*

Credit Points: *12*

Student Contribution Band: *8*

Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites

There are no requisites for this unit.

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

- Melbourne
- 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 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

Students felt that the learning materials were less useful than anticipated.

Recommendation

Feedback highlights the need for improving the manageability of the course content within the allotted timeframe and the effectiveness of the learning materials. A review of the course design, including the pacing and integration of learning materials, is recommended to better align with student workload expectations.

Feedback from SUTE

Feedback

Students feedback indicated a need for more targeted feedback from the lecturer across a range of topics covered in this unit.

Recommendation

To address this concern, it is recommended to increase the frequency of feedback particularly on clarifying complex concepts and supporting student engagement. Additionally, providing group feedback immediately after the assessments could prove to be more effective.

Feedback from SUTE

Feedback

Students expected the unit requirements to be explained during lectures, with particular focus on assessments.

Recommendation

A decline in student response data in this category from previous terms indicates that students found the assessment expectations and/or learning objectives unclear. To address this, it is recommended to provide more detailed, criterion-specific rubrics and a dedicated assessment briefing session at the start of the term, aligning with the project-based learning modality.

Feedback from SUTE

Feedback

Student feedback indicated that learning gains from the assessments were limited.

Recommendation

It is recommended that the assessment design be reviewed to enhance stronger alignment with learning outcomes and additional feedback opportunities integrated into the unit to better support student learning and skill development.

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.