

## In Progress

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



# COIT12200 *Software Design & Development*

## Term 1 - 2026

Profile information current as at 23/01/2025 01:10 pm

All details in this unit profile for COIT12200 have been officially approved by CQUUniversity 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 introduces object-oriented software design and implementation, including the use of complex data structures and algorithms. You will learn data structures, algorithms, and both theoretical and practical aspects of software engineering. The theory will focus on software processes, requirements engineering, modelling, architectural design, design patterns, software development methodology, testing, and quality assurance. You will also be introduced to the principles of software reuse, and development code management. You will develop multi-tiered software application consisting of presentation, application, and data persistence tiers. You will also learn test-driven software application development using appropriate tools, thus building solid foundations for software development.

### 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-requisites: (COIT11134 and COIT11237) OR (COIT11134 and COIT12167).

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 - 2026

- Brisbane
- Cairns
- Melbourne
- Online
- Rockhampton
- Sydney

### 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 12 January 2026

## 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 2024 Unit Teaching Comments Report

##### **Feedback**

Assignment 2 should be a group assessment because Assessment 3 builds off of it. It would make more sense if groups designed the diagram together, then proceeded to code the program using the diagram from A2.

##### **Recommendation**

Group work can be incorporated into students' assessments through design and code walkthroughs conducted after each student has completed individual attempts at design, coding, and testing.

#### Feedback from 2024 Unit Teaching Comments Report

##### **Feedback**

The availability of the recorded lectures and tutorials was delayed a little each week, so it felt I was constantly trying to catch up on weekly materials.

##### **Recommendation**

The Echo360 system currently processes recorded videos with a slight delay, likely due to an overload of simultaneous tasks. Starting in Term 2 of 2024, Echo360 will expedite video processing, and by next year, this issue should no longer be a concern.

#### Feedback from Self-reflection

##### **Feedback**

The Assessment item 3 (project) should add more advanced security requirements.

##### **Recommendation**

We will enhance security by requiring passwords to be encrypted in the database table, and access to the system will necessitate answers to the built-in security questions.

## Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 12 January 2026

## 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 12 January 2026

## Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 16 February 2026

## Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.