

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 - 2027

Profile information current as at 07/09/2026 09:35 pm

All details in this unit profile for COIT12200 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 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 - 2027

- 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 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 Student evaluations, feedback from the teaching team and informal feedback from students.

Feedback

The new unit materials were relevant and helped student learning

Recommendation

Continue to provide teaching materials of a similar standard.

Feedback from Student feedback. Feedback from the teaching team.

Feedback

Assessments gave students relevant, practical experience with the concepts taught in the unit. Students found their tutorials and practical assignments engaging and helpful.

Recommendation

Continue with similar assessment tasks.

Feedback from Student feedback

Feedback

Assessment feedback was useful and helped students to learn and to improve the quality of their work.

Recommendation

Continue to aim for high-quality feedback that helps students improve the quality of their work.

Feedback from Student feedback

Feedback

A new LTS version of Java (25) has now been released. Students have asked when the new LTS version will be used in the university.

Recommendation

It is recommended that, if possible, the transition to the new LTS version be made in Term 2 or Term 3 of 2026.

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 15 February 2027

Academic Integrity Statement

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