COIT12200 *Software Design & Development*
Term 1 - 2025

Profile information current as at 22/11/2024 09:13 pm

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 - 2025

- 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

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 Student feedback

Feedback
Need a clearer provision about each student contribution to the final paired project - Assessment Item 3.

Recommendation
We will update the marking criteria related to teamwork part in the final project, which will set a clear provision or clause related to each team member's contribution to the project.

Feedback from Student feedback

Feedback
The current textbook emphasises software development theories. Weekly Lecture slides have too many pages.

Recommendation
We are considering reducing the number of lecture slides. The adopted textbook is a classic book in the field of software development but indeed weekly lecture slides have too many pages that need to be reduced.

Feedback from Self-reflection

Feedback
We should add some contents in Week 12 related to security engineering. In Assessment Item 3 (Project), we add the requirement of Authentication.

Recommendation
We are considering adding the Authentication requirement for Assessment Item 3 in the next offering. The study materials or tutorial materials in Week 12 will add SHA1/256 algorithm for encrypting the password that can be stored in a table in a MySQL database.

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.