COIT13230 *Application Development Project*

Term 2 - 2024

Profile information current as at 18/05/2024 07:23 am

General Information

Overview
This capstone unit in the Application Development major of the Bachelor of Information Technology course is designed so that you can demonstrate your learning across the whole course of study before making the transition to the next stage of your career. You are required to demonstrate and apply the skills you have developed in earlier core and application development specialisation units by undertaking an authentic task group project or an industry project. You are required to synthesise and apply your skills developed across the units studied previously. This unit will help you to consolidate your competence with a relevant set of software engineering concepts, practices, and tools. To achieve this, you will work in small teams with a designated customer to identify a problem and develop a software application adhering to software engineering principles and standards. You will document and present the requirement analysis, identify potential cyber threats and system vulnerabilities, design artefacts, and the results from software testing. Your team will develop the project management, quality assurance, and cyber security components within project specifications. You will also evaluate and discuss your contribution to the project team and the overall team performance.

Details
Career Level: *Undergraduate*
Unit Level: *Level 3*
Credit Points: *12*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites
Pre-requisite: COIT12200, (COIT12207 or COIT13224) and (COIT12208 or COIS13064) Co-requisite: COIT13229 and COIT13234
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 - 2024
- Brisbane
- Cairns
- Melbourne
- Online
- Rockhampton
- Sydney
- Townsville

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

Recommended Student Time Commitment
Each 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 hours for the unit.

Class Timetable

Regional Campuses
Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses
Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

Assessment Grading
This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Policy for more details of interim results and final grades.

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 Unit Evaluation

Feedback
Redundant and inconsistent assessment requirements need to be rectified.

Recommendation
Review the assessment requirements to eliminate redundancy and inconsistency.

Feedback from Unit Evaluation

Feedback
More useful learning materials would be helpful.

Recommendation
Review the learning materials.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Apply software engineering processes in the context of application development to address all phases of the Software Development Life Cycle (SDLC)
2. Manage a software development project using contemporary project management tools & techniques and a quality management plan
3. Design and develop complex software applications adhering to cybersecurity principles and ethical responsibility
4. Work and communicate effectively as part of a development team demonstrating advanced written and oral presentations.

The Australian Computer Society (ACS), the professional association for Australia's ICT sector, recognises the Skills Framework for the Information Age (SFIA). SFIA is adopted by organisations, governments, and individuals in many countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles. ACS members can use the tool MySFIA to build a skills profile.

This unit contributes to the following workplace skills as defined by SFIA 8 (the SFIA code is included):

- Requirements definition and management (REQM)
- Programming/software development (PROG)
- Software Design (SWDN)
- Data modelling and design (DTAN)
- User experience evaluation (USEV)
- Database design (DBDS)
- Systems integration and build (SINT)
- Testing (TEST)
- Configuration management (CFMG)
- Application support (ASUP)
- System installation and removal (HSIN)
- Information Security (SCTY)

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level   ○ Introductory Level   • Intermediate Level   • Graduate Level   ○ Professional Level   ○ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Written Assessment - 15%	•			
2 - Written Assessment - 10%		•		
3 - Written Assessment - 25%	•	•	•	
4 - Project (applied) - 40%	•	•	•	•
5 - Presentation - 10%				•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication	•	•	•	•
2 - Problem Solving	•			
3 - Critical Thinking				
4 - Information Literacy	•	•	•	•
5 - Team Work		•		
6 - Information Technology Competence	•		•	
7 - Cross Cultural Competence				•
8 - Ethical practice	•	•	•	
9 - Social Innovation				
10 - Aboriginal and Torres Strait Islander Cultures				

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 17 June 2024

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.