

In Progress

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



COIT12207 *Internet Applications*

Term 2 - 2022

Profile information current as at 18/05/2022 06:15 am

All details in this unit profile for COIT12207 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

Internet applications are interactive services that are used to perform tasks over the Internet. In this unit, you will learn how to develop dynamic mobile-friendly web applications using emerging technologies. Client-side and server-side scripting languages are introduced. You will use a commonly used set of open source technologies to develop database-driven internet applications. Web application architectures and the related frameworks are covered. You will also learn how to secure your applications using a number of security strategies such as authentication and session control.

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

Prerequisite COIT11237, COIT11222 and COIS12036 or Prerequisite COIT12167, COIT11222 and COIS12036 Anti-requisite COIT13224

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 - 2022

- 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 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 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 BIT course review and discipline reflection.

Feedback

More HTML5 and JavaScript topics are expected.

Recommendation

Add new materials in HTML5 and JavaScript to the unit.

Feedback from BIT course review and discipline reflection.

Feedback

Java Server Faces (JSF) topics need to be removed.

Recommendation

Remove the 3-week materials in the JSF topics from the unit.

Feedback from BIT course review and discipline reflection.

Feedback

Theoretical topics need to be added.

Recommendation

Add theoretical topics in web application architecture, client-server communication, and security issues to the unit.

Feedback from BIT course review and discipline reflection.

Feedback

The software adopted in the unit teaching should be updated to the most recent versions.

Recommendation

Update the learning materials aligning with the new software versions.

Unit Learning Outcomes

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

1. Describe and explore Web application architectures and client-server communication methods
2. Investigate, evaluate and use modern development tools and frameworks
3. Develop mobile-friendly websites to support social innovation
4. Apply authentication and other security techniques to secure Internet applications
5. Develop and test database-driven Internet applications using a set of open source technologies.

The Australian Computer Society (ACS) 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 7](#) (the SFIA code is included)

- Software Design (SWDN)
- Programming/Software Development (PROG)
- System Integration and Build (SINT)
- Data Modelling and Design (DTAN)
- User Experience Design (HCEV)
- Content Authoring (INCA)
- Content Publishing (ICPM)
- Information Security (SCTY)
- Testing (TEST)

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

| Assessment Tasks | Learning Outcomes | | | | |
|--|-------------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| 1 - Practical and Written Assessment - 30% | • | | • | | |
| 2 - Practical and Written Assessment - 30% | | • | • | • | • |
| 3 - Practical and Written Assessment - 40% | • | • | | • | • |

Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes | Learning Outcomes | | | | |
|---|-------------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| 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

Textbooks

COIT12207

Supplementary

PHP and MySQL Web Development

Edition: 5th edn (2016)

Authors: Welling, L & Thomson, L

Pearson

Upper Saddle River , NJ , USA

ISBN: 9780321833891

Binding: Paperback

Additional Textbook Information

The eBook can be purchased from <https://www.pearson.com.au/9780133038637>

If you prefer to study with a paper text, you can purchase one at the CQUni Bookshop here:

<http://bookshop.cqu.edu.au> (search on the Unit code).

IT Resources

You will need access to the following IT resources:

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.