

Staying Healthy @ UQ



Stay home if
you are unwell



Cover your mouth
and nose when you
sneeze or cough



Avoid touching
your face



Wash your hands
thoroughly



Don't share
personal items



Clean surfaces



Maintain space
between each other



Put used tissues
in the bin



Call your General Practitioner
(doctor) or UQ Health Care
and explain your symptoms

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder



Need the facts? about.uq.edu.au/coronavirus-advice-uq-community

Class recordings

Announcement at start of class:

“Students, please be aware that this session is being recorded so it can be made available through Echo360 in Learn.UQ (Blackboard) to all students enrolled in the course. The reason we are recording the class presentations, discussions and chat room logs is because this provides a richer experience for all students and active classrooms help students’ learning.

The recording may be accessed and downloaded only by students enrolled in the course including those students studying outside Australia.

If you would prefer not be captured either by voice or image in the recording, please let me know before the class starts. I recognise this will be the case for some students and it can be accommodated.”

Suggested options for students not wishing to be recorded:

- Turn off video and mute audio
- Use a proxy name for Zoom (student attendance will still be on record with the Course Coordinator)
- For in-class attendance, student should sit outside the camera span.

Please note that students are not permitted to record teaching without the explicit permission of the Course Coordinator. This includes recording classes using Zoom.

For further information:

- PPL 3.20.06 Recording of Teaching at UQ
- UQ website:
<https://my.uq.edu.au/information-and-services/information-technology/software-and-web-apps/software-uq/zoom>

About this course

Course Description: Program analysis is used for: code optimisation in compilers, finding programs errors and potential security flaws. This course examines techniques for performing static analysis of computer code and the implementation of software tools for performing such analyses. Topics include: data flow analysis; constraint-based analysis; abstract interpretation; and type and effect systems.

Prerequisite: COMP4403 Compilers and Interpreters

- how interpreters and compilers work;
- abstract internal representation of programs in terms of abstract syntax trees and symbol tables;
- simple type systems that check the well formedness of a program.

You should also have good programming skills (Java / Scala), and good understanding of discrete mathematics and logic.

Course Aims and Learning Objectives

1. To teach you how to **automate the detection** of bugs and cyber-security vulnerabilities in programs.
2. To enable you to **evaluate the benefits and limitations** of various static and dynamic program analysis techniques.
3. To empower you to **apply existing program analysis tools** and to **develop new analysis tools**.

Assignment Project Exam Help

2.2 Learning Objectives

After successfully completing this course you should be able to <https://powcoder.com>

- 1 Explain the fundamental concepts of program analysis.
- 2 Evaluate the benefits and limitations of alternative program analysis approaches.
- 3 Use program analysis tools to automatically find errors or check the correctness of programs.
- 4 Design and implement correct analysis algorithms for simple program analysis tasks.

Add WeChat powcoder

Part 1 (Weeks 1-10): Static Analysis

Part 2 (Weeks 11-13): Dynamic Analysis

Assessment (see ECP for details)

Assessment Task	Due Date	Weighting	Learning Objectives
<i>Computer-based Assessment</i> Test 1: Mid-semester concept test	24 Aug 22 13:00-13:50 Week 5 during Wednesday lecture time	10%	1, 2
<i>Computer-based Assessment</i> Assignment 1: Static Analysis	07 Oct 22 16:00 Week 10, Friday 4pm	30%	1, 3, 4
<i>Computer-based Assessment</i> Assignment 2: Dynamic Analysis	28 Oct 22 16:00 Week 13, Friday 4pm	20%	1, 2, 3
<i>Exam - during Exam Period (Central)</i> Final Exam	Examination Period	40%	1, 2, 3, 4

Multi-Factor Authentication (MFA)

- UQ will progressively activate multi-factor authentication (MFA) for students during Semester 2
- **MFA** provides an extra layer of security to make sure it's really you when you log into UQ services and systems
- Once you've signed in with your UQ username and password, you will be asked to verify your identity using a second factor e.g. via an app on your mobile phone
- MFA will be rolled out in a staged process and we will email you with information about when you can access MFA
- Visit mfa.uq.edu.au for more information

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder



Vietnam Internship Opportunity

- 9 Jan - 17 Feb 2023
 - ❖ 1 week culture training
 - ❖ 4 weeks internship
 - ❖ 1 week holiday (Jan 21 - 29)
- \$3000 grant available to Australian citizens
 - ❖ 1 week culture training
- Cost: \$1500
 - ❖ Includes training, activities and accommodation
- Information sessions in mid-August
- Questions email: richard.thomas@uq.edu.au
- Apply via: <https://tiny.cc/ncp>

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder

