UNSW Course Outline

ZEIT4116 Computing and Cyber Security Honours Research 2 - 2024

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General Course Information

Course Code : ZEIT4116
Year : 2024
Term : Semester 2
Teaching Period : Z2
Is a multi-term course? : No
Faculty : UNSW Canberra
Academic Unit : School of Systems and Computing
Delivery Mode : In Person
Delivery Format : Standard
Delivery Location : UNSW Canberra at ADFA
Campus : UNSW Canberra
Study Level : Undergraduate
Units of Credit : 12

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

The student will undertake a substantial research project on a computer science or cyber security topic under the supervision of School academic staff.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature and industry.
CLO2 : Show in-depth understanding of one or more specific areas of computer science and/or cyber security.
CLO3 : Demonstrate the development of intellectually rigorous novel work to the fields of computer science and/or cyber security.
CLO4 : Demonstrate the ability to communicate results to a wider audience.

Course Learning Outcomes	Assessment Item
CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature and industry.	• Seminar 3 • Thesis and Supporting Files • Seminar 4
CLO2 : Show in-depth understanding of one or more specific areas of computer science and/or cyber security.	• Seminar 3 • Thesis and Supporting Files • Seminar 4
CLO3 : Demonstrate the development of intellectually rigorous novel work to the fields of computer science and/or cyber security.	• Seminar 3 • Thesis and Supporting Files • Seminar 4
CLO4 : Demonstrate the ability to communicate results to a wider audience.	• Seminar 3 • Thesis and Supporting Files • Seminar 4

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

Learning and Teaching in this course

A mixture of methods will be used to provide menorship and guidance to sudents. Supervisors and course staff will provide mentorship. Students will have opportunities for self-development and to grow skills in, and understanding of, the research area. Written reports and oral presentations aim to develop, enhance, and grow students' communication skills. Assessment meetings are structured to assess, advise, and monitor the student’s progress and provide an opportunity to advise students on their project management skills.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Seminar 3 Assessment Format: Individual	15%	Due Date: 04/08/2024 12:00 AM
Thesis and Supporting Files Assessment Format: Individual	50%	Due Date: 03/11/2024 12:00 AM
Seminar 4 Assessment Format: Individual	35%	Due Date: 13/10/2024 12:00 AM

Assessment Details

Seminar 3

Assessment Overview

In this assessment, students are expected to have achieved the following standards for different components in their thesis.

- Scope: Completed
- Ethics Application if applicable: Completed
- Motivation: Completed
- Problem Definition: Completed
- Project Plan: Completed
- Literature Review: Completed
- Contribution: Second Draft Completed and Final
- Methodology: Completed and Final
- Results: Detailed Plan
- Analysis: Detailed Plan
- Conclusion: Basic Idea
- Future Work: Basic Idea

Course Learning Outcomes

- CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature and industry.
- CLO2 : Show in-depth understanding of one or more specific areas of computer science and/or cyber security.
- CLO3 : Demonstrate the development of intellectually rigorous novel work to the fields of computer science and/or cyber security.
- CLO4 : Demonstrate the ability to communicate results to a wider audience.

Thesis and Supporting Files

Assessment Overview

In this assessment, students are expected to have completed a coherent thesis with a contribution equivalent to a journal paper in a respectable journal in the field or two conference papers in high quality (ERA A or A*) venues. Students are expected to provide evidence that the work is their own. Supporting evidence of the work could include a data management plan, data, software, results and lab book.

Course Learning Outcomes

- CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature and industry.
- CLO2 : Show in-depth understanding of one or more specific areas of computer science and/or cyber security.
- CLO3 : Demonstrate the development of intellectually rigorous novel work to the fields of computer science and/or cyber security.
- CLO4 : Demonstrate the ability to communicate results to a wider audience.

Seminar 4

Assessment Overview

In this assessment, students are expected to have achieved the following standards for different components in their thesis.

- Scope: Completed
- Ethics Application if applicable: Completed
- Motivation: Completed
- Problem Definition: Completed
- Project Plan: Completed
- Literature Review: Completed
- Contribution: Completed
- Methodology: Completed
- Results: Completed
- Analysis: Completed
- Conclusion: Completed
- Future Work: Completed

Course Learning Outcomes

- CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature and industry.
- CLO2 : Show in-depth understanding of one or more specific areas of computer science and/or cyber security.
- CLO3 : Demonstrate the development of intellectually rigorous novel work to the fields of

computer science and/or cyber security.
- CLO4 : Demonstrate the ability to communicate results to a wider audience.

General Assessment Information

The description of each assessment and corresponding marking ruberic are provided with the course materials.

Use of Generative AI in Assessments

FULL ASSISTANCE WITH ATTRIBUTION

You can use generative AI software in this assessment to the extent specified in the assessment instructions. Any output of generative software within you assessment must be attributed with full referencing.

If the outputs of generative AI such as ChatGPT form part of your submission and is not appropriately attributed, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

- *To cite: OpenAI (Year Accessed). ChatGPT. OpenAI. https://openai.com/models/chatgpt/*
- *Please note that the outputs from these tools are not always accurate, appropriate, nor properly reference. You should ensure that you have moderated and critically evaluated the outputs from generative AI tools such as ChatGPT before submission.*

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 15 July - 19 July	Seminar	
Week 2 : 22 July - 26 July	Seminar	
Week 3 : 29 July - 2 August	Seminar	
Week 4 : 5 August - 9 August	Seminar	
Week 5 : 12 August - 16 August	Seminar	
Week 6 : 19 August - 23 August	Seminar	
Week 7 : 9 September - 13 September	Seminar	
Week 8 : 16 September - 20 September	Seminar	
Week 9 : 23 September - 27 September	Seminar	
Week 10 : 30 September - 4 October	Seminar	
Week 12 : 14 October - 18 October	Seminar	
Week 13 : 21 October - 25 October	Seminar	

Attendance Requirements

Students will join CDF students for their weekly meetings on Monday night. In addition, 4 2-hour meetings during the session will be organised in weeks 2, 4, 10 and 12.

General Schedule Information

Students are expected to attend the classes with the CDF program and attend 4 additional classes scheduled during the session.

Course Resources

Prescribed Resources

There is not a textbook for this course to all students. However, individual theses may benefit from a textbook that students should discuss with their supervisors.

Course Evaluation and Development

One of the key priorities in the 2025 Strategy for UNSW is a drive for academic excellence in education. One of the ways of determining how well UNSW is progressing towards this goal is by listening to our own students. Students will be asked to complete the myExperience survey towards the end of this course.

Students can also provide feedback during the semester via: direct contact with the lecturer, the “On-going Student Feedback” link in Moodle, Student-Staff Liaison Committee meetings in schools, informal feedback conducted by staff, and focus groups. Student opinions really do make a difference. Refer to the Moodle site for this course to see how the feedback from previous students has contributed to the course development.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Hussein Abbass		Room 161	02 5114 5109	Please email to arrange a meeting time.	No	Yes

Other Useful Information

School-specific Information

The Leaning Management System

Moodle is the Learning Management System used at UNSW Canberra. All courses have a Moodle site which will become available to students at least one week before the start of semester. Please find all help and documentation (including Blackboard Collaborate) at the Moodle Support page.

UNSW Moodle supports the following web browsers:
• Google Chrome 50+
• Safari 10+
Internet Explorer is not recommended. Addons and Toolbars can affect any browser's performance.

Operating systems recommended are:
• Windows 10,
• Mac OSX Sierra,
• iPad IOS10

Further details:
Moodle System Requirements
Moodle Log In

If you need further assistance with Moodle:

For enrolment and login issues please contact:
IT Service Centre
Email: itservicecentre@unsw.edu.au
Phone: (02) 9385-1333
International: +61 2 9385 1333

For all other Moodle issues please contact:
External TELT Support
Email: externalteltsupport@unsw.edu.au
Phone: (02) 9385-3331

International: +61 2 938 53331

Opening hours:

Monday – Friday 7:30am – 9:30 pm

Saturday & Sunday 8:30 am – 4:30pm

Study at UNSW Canberra

Study at UNSW Canberra has lots of useful information regarding:

- Where to get help
- Administrative matters
- Getting your passwords set up
- How to log on to Moodle
- Accessing the Library and other areas.

UNSW Canberra Student Hub

For News and Notices, Student Services and Support, Campus Comminity, Quick Links, Important Dates and Upcoming Events

School Contact Information

Deputy Head of School (Education): Dr Erandi Hene Kankanamge

E: e.henekankanamge@adfa.edu.au

T: 02 5114 5157

Syscom Admin Support: syscom@unsw.edu.au

T: 02 5114 5284

Syscom Admin Office: Building 15, Level 1, Room 101 (open 10am to 4pm, Mon to Fri)