



UNSW

UNSW Course Outline

ZEIT8018 Cyber Resilience: Management Governance and Acquisition - 2024

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General Course Information

Course Code : ZEIT8018

Year : 2024

Term : Semester 1

Teaching Period : Z1

Is a multi-term course? : No

Faculty : UNSW Canberra

Academic Unit : School of Systems and Computing

Delivery Mode : Online

Delivery Format : Standard

Delivery Location : UNSW Canberra at ADFA

Campus : UNSW Canberra

Study Level : Postgraduate

Units of Credit : 6

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

This course will examine the operational aspects of Information Assurance (IA) and cyber

security, in particular the implementation of management systems and acquisition.

1. Information Systems (IS) strategy
2. Information Assurance (IA) Governance - scope and purpose
3. Procurement
4. Governance and management
5. Security policies and processes
6. Security Standards

Learning Outcomes

- On the completion of this course the student will be able to
- Analyse the key components of an organisational strategy from relevant business management theories
- Compare and contrast different frameworks for IA management systems from those presented
- Critically assess a given security policy.
- Develop a range of metrics to measure IS, Enterprise Architecture and IA performance appropriate to the information supplied in a case study
- Justify selecting a management system for a given organisation
- Outline an implementation program for ISO 27000 family
- Develop security requirements in the context of acquisition

Course Aims

This course aims to:

- 1) Provide technical, operational and management staff at all levels with an introduction to broad topic of Cyber Defence and Systems Resilience to cyber attacks.
- 2) Provide a better understanding of what cyber defence entails

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Analyse the key components of an organisational strategy and governance from relevant business management theories.
CLO2 : Compare and contrast different frameworks for information assurance management systems from those presented.
CLO3 : Critically assess cyber security policies and processes including relevant standards.
CLO4 : Identify security measures for an organisation's architecture, systems, and performance.
CLO5 : Apply cyber defensive strategies to develop security requirements in the context of acquisition.

Course Learning Outcomes	Assessment Item
CLO1 : Analyse the key components of an organisational strategy and governance from relevant business management theories.	<ul style="list-style-type: none"> • Online Forum Discussion • Project Study I • Project Study II • Short Summary
CLO2 : Compare and contrast different frameworks for information assurance management systems from those presented.	<ul style="list-style-type: none"> • Online Forum Discussion • Project Study I • Project Study II • Short Summary
CLO3 : Critically assess cyber security policies and processes including relevant standards.	<ul style="list-style-type: none"> • Online Forum Discussion • Project Study I • Project Study II
CLO4 : Identify security measures for an organisation's architecture, systems, and performance.	<ul style="list-style-type: none"> • Short Summary • Project Study I • Project Study II
CLO5 : Apply cyber defensive strategies to develop security requirements in the context of acquisition.	<ul style="list-style-type: none"> • Project Study I • Project Study II

Learning and Teaching Technologies

Moodle - Learning Management System

Learning and Teaching in this course

This course uses a variety of teaching strategies that have been developed by your course convenor after many years of experience in both academic and industry environments.

This course uses research-led teaching approach, which requires you to demonstrate skills, including research analysis, structured thinking and decision-making, when dealing with complex problems.

The concepts presented in this course require you to demonstrate skills including structured thinking and decision making in dealing with complex problems. Therefore, the teaching strategies employed in this course aim to provide an engaging and rewarding educational environment to facilitate the students' learning experiences. The lecture notes provided in this course are synthesized from multiple sources and are divided into modules to facilitate structured and scheduled studying activities. A course guide will be provided to help you understand the connection between the different course modules as well as the connection between study materials and assignments. The instructions will be provided for each module in

Moodle, articulating what is expected within each topic.

There is an expectation that all students will use Moodle, which provides mechanisms to facilitate online discussions between students and the lecturer. Students are encouraged to log on to Moodle on a regular basis for updates relating to the course. It is expected that students will study as much of the recommended reading materials as they can, as well as expand their reading through the linked references and their own research, reflect upon the studied material and think outside-the-box to comprehend the concepts and techniques taught in this course.

In addition, periodic virtual synchronous seminars are scheduled to support students' study. See the Moodle page for the dates and times.

Note: Live attendance is not compulsory, and recordings will be provided.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Online Forum Discussion Assessment Format: Individual	20%	
Project Study I Assessment Format: Group	15%	
Project Study II Assessment Format: Individual	35%	
Short Summary Assessment Format: Individual	30%	

Assessment Details

Online Forum Discussion

Assessment Overview

Short Summary builds on previous online Forum Discussion. Students are required to reflect and build on instructors' and peers' comments; conduct further analyses and deeper research into a specific task given. Required online reading materials, book chapters and research papers will be provided in Moodle. This material plus students' own additional research on the Internet will provide essential background for the assignment. Students will then create and provide a short one-page summary.

Course Learning Outcomes

- CLO1 : Analyse the key components of an organisational strategy and governance from relevant business management theories.
- CLO2 : Compare and contrast different frameworks for information assurance management systems from those presented.
- CLO3 : Critically assess cyber security policies and processes including relevant standards.

Project Study I

Assessment Overview

Presentation will assess the knowledge that the student acquired from books and papers, as well as the team collaborations, which will provide a preparation and background information of the project.

Course Learning Outcomes

- CLO1 : Analyse the key components of an organisational strategy and governance from relevant business management theories.
- CLO2 : Compare and contrast different frameworks for information assurance management systems from those presented.
- CLO3 : Critically assess cyber security policies and processes including relevant standards.
- CLO4 : Identify security measures for an organisation's architecture, systems, and performance.
- CLO5 : Apply cyber defensive strategies to develop security requirements in the context of acquisition.

Project Study II

Assessment Overview

Essay will require deep research on the topic presented before and the ability of summarizing useful information from reading materials.

Course Learning Outcomes

- CLO1 : Analyse the key components of an organisational strategy and governance from relevant business management theories.
- CLO2 : Compare and contrast different frameworks for information assurance management systems from those presented.
- CLO3 : Critically assess cyber security policies and processes including relevant standards.
- CLO4 : Identify security measures for an organisation's architecture, systems, and performance.
- CLO5 : Apply cyber defensive strategies to develop security requirements in the context of acquisition.

Short Summary

Assessment Overview

Short Summary builds on previous online Forum Discussion. Students are required to reflect and build on instructors' and peers' comments; conduct further analyses and deeper research into a specific task given. Required online reading materials, book chapters and research papers will be provided in Moodle. This material plus students' own additional research on the Internet will provide essential background for the assignment. Students will then create and provide a short one-page summary.

Course Learning Outcomes

- CLO1 : Analyse the key components of an organisational strategy and governance from relevant business management theories.
- CLO2 : Compare and contrast different frameworks for information assurance management systems from those presented.
- CLO4 : Identify security measures for an organisation's architecture, systems, and performance.

General Assessment Information

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 26 February - 1 March	Lecture	
Week 2 : 4 March - 8 March	Lecture	
Week 3 : 11 March - 15 March	Lecture	
Week 4 : 18 March - 22 March	Lecture	
Week 5 : 25 March - 29 March	Lecture	
Week 6 : 1 April - 5 April	Lecture	
Week 7 : 22 April - 26 April	Lecture	
Week 8 : 29 April - 3 May	Lecture	
Week 9 : 6 May - 10 May	Presentation	
Week 10 : 13 May - 17 May	Presentation	
	Lecture	
Week 11 : 20 May - 24 May	Lecture	
Week 12 : 27 May - 31 May	Lecture	

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Course Resources

Recommended Resources

There is no specific textbook in this course. A variety of resource materials will be made available, which comprise of:

- Recommended papers and chapters from textbooks, Internet-based documents and other sources. In general, these materials will be available through the Moodle page.
- Slides, videos and presentation notes in the form of PowerPoint slides covering the material presented. These will also be made available through the Moodle course page.

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.

Important note: Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct Policy

<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
	Siqi Ma					No	Yes

Other Useful Information

Academic Information

Course Evaluation and Development

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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 (where applicable). Student opinions really do make a difference. Refer to the Moodle site for your course to see how the feedback from previous students has contributed to the course development.

Important note: Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct.

<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

Equitable Learning Services (ELS)

Students living with neurodivergent, physical and/or mental health conditions or caring for someone with these conditions may be eligible for support through the Equitable Learning Services team. Equitable Learning Services is a free and confidential service that provides practical support to ensure your mental or physical health conditions do not adversely affect your studies.

Our team of dedicated **Equitable Learning Facilitators (ELFs)** are here to assist you through this process. We offer a number of services to make your education at UNSW easier and more equitable.

Further information about ELS for currently enrolled students can be found at: <https://www.student.unsw.edu.au/equitable-learning>

Academic Honesty and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. All students are expected to adhere to UNSW’s Student Code of Conduct.

Find relevant information at: [Student Code of Conduct \(unsw.edu.au\)](https://unsw.edu.au/students/student-code-conduct)

Plagiarism undermines academic integrity and is not tolerated at UNSW. It is defined as using the words or ideas of others and passing them off as your own, and can take many forms, from deliberate cheating to accidental copying from a source without acknowledgement.

For more information, please refer to the following:

<https://student.unsw.edu.au/plagiarism>

Submission of Assessment Tasks

Special Consideration

Special Consideration is the process for assessing and addressing the impact on students of short-term events, that are beyond the control of the student, and that affect performance in a specific assessment task or tasks.

Applications for Special Consideration will be accepted in the following circumstances only:

- Where academic work has been hampered to a substantial degree by illness or other cause;
- The circumstances are unexpected and beyond the student's control;
- The circumstances could not have reasonably been anticipated, avoided or guarded against by the student; and either:
 - (i) they occurred during a critical study period and was 3 consecutive days or more duration, or a total of 5 days within the critical study period; or
 - (ii) they prevented the ability to complete, attend or submit an assessment task for a specific date (e.g. final exam, in class test/quiz, in class presentation)

Applications for Special Consideration must be made as soon as practicable after the problem occurs and at the latest within three working days of the assessment or the period covered by the supporting documentation.

By sitting or submitting the assessment task the student is declaring that they are fit to do so and cannot later apply for Special Consideration (UNSW 'fit to sit or submit' requirement).

Sitting, accessing or submitting an assessment task on the scheduled assessment date, after applying for special consideration, renders the special consideration application void.

Find more information about special consideration at: <https://www.student.unsw.edu.au/special/>

consideration/guide

Or apply for special consideration through your [MyUNSW portal](#).

Late Submission of assessment tasks (other than examinations)

UNSW has a standard late submission penalty of:

- 5% per day,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

Electronic submission of assessment

Except where the nature of an assessment task precludes its electronic submission, all assessments must be submitted to an electronic repository, approved by UNSW or the Faculty, for archiving and subsequent marking and analysis.

Release of final mark

All marks obtained for assessment items during the session are provisional. The final mark as published by the university following the assessment review group meeting is the only official mark.

School-specific Information

The Learning 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 Community, 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 3pm, Mon to Fri)