



UNSW Course Outline

INFS5907 Fundamentals of Cybersecurity for Business - 2024

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General Course Information

Course Code : INFS5907

Year : 2024

Term : Term 1

Teaching Period : T1

Is a multi-term course? : No

Faculty : UNSW Business School

Academic Unit : School of Information Systems and Technology Management

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Postgraduate

Units of Credit : 6

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

This is a Level 5 postgraduate course designed to deepen students' awareness and knowledge of IS/IT security-related issues within the dynamic realm of cyberspace. It places a specific emphasis on the imperative need for ethical viewpoints, approaches, and responsible practices

from a management perspective when addressing the multifaceted challenges and solutions inherent in IS/IT-related security problems.

The course explores the symbiotic relationship between human and technical influences in cybersecurity, delves into risk management and breach mitigation strategies, provides insights into data governance and management frameworks, and identifies emerging trends and influences that will shape the future of cybersecurity and data governance. Through real-world business cases and scenarios, students will analyse the implications these issues present to various stakeholders and develop the skills needed to responsibly manage cyber-related security challenges.

Course Aims

This course aims to equip students with the knowledge and awareness needed to address the evolving security challenges in the digital age. With the prevalence of internet technologies, individuals and organisations face growing threats with significant financial and non-financial consequences. Emphasising ethical and responsible management practices, the course explores the complex interplay of human and technical factors in cybersecurity, analyses risk management and breach mitigation strategies, provides insights into data governance, and identifies emerging trends shaping cybersecurity and data governance. Through real-world scenarios, students develop critical analysis skills and ethical decision-making abilities to responsibly manage cyber-related security challenges, preparing them for the intricate cyberspace landscape.

Relationship to Other Courses

This course aims to review concepts, theories, methodologies, and techniques discussed in the IS security and ethics literature. In particular, it emphasises the importance of planning and managing decision-making in IS security using ethical and related considerations.

Student Learning Outcomes

The Course Learning Outcomes (CLOs) are what you should be able to demonstrate by the end of this course if you participate fully in learning activities and successfully complete the assessment items.

CLOs also contribute to your achievement of the Program Learning Outcomes (PLOs), which are developed across the duration of a program for all coursework students in the Business School. More information on PLOs is available under Policies and Support. PLOs are, in turn, directly

linked to UNSW graduate capabilities and the aspiration to develop globally focused graduates who are rigorous scholars capable of leadership and professional practice in an international community.

The following table shows how the CLOs for this course relate to the overall PLOs and indicates where each CLO and PLO is assessed:

Course Learning Outcomes

Course Learning Outcomes	Program learning outcomes
CL01 : Explain fundamental cybersecurity and data governance concepts and processes.	<ul style="list-style-type: none"> • PL01 : Business Knowledge • PL02 : Problem Solving • PL03 : Business Communication
CL02 : Apply best practice frameworks and tools to assess cybersecurity, identify threats, and propose protective measures.	<ul style="list-style-type: none"> • PL01 : Business Knowledge • PL02 : Problem Solving
CL03 : Examine the relationships between data governance, data management, and cybersecurity practices, emphasising their collaboration in delivering quality and compliant solutions.	<ul style="list-style-type: none"> • PL01 : Business Knowledge • PL02 : Problem Solving • PL05 : Responsible Business Practice
CL04 : Evaluate the ethical and legal implications of cybersecurity practices, with a focus on regulatory impacts related to privacy protection and data quality.	<ul style="list-style-type: none"> • PL01 : Business Knowledge • PL02 : Problem Solving • PL05 : Responsible Business Practice
CL05 : Collaborate effectively with team members to address cybersecurity challenges, reach consensus on actionable solutions, and communicate findings using language suitable for both technical and non-technical audiences.	<ul style="list-style-type: none"> • PL01 : Business Knowledge • PL02 : Problem Solving • PL03 : Business Communication • PL04 : Teamwork

Course Learning Outcomes	Assessment Item
CLO1 : Explain fundamental cybersecurity and data governance concepts and processes.	<ul style="list-style-type: none"> • Individual Report • Group Project • Individual Reflective Report • Peer Assessment
CLO2 : Apply best practice frameworks and tools to assess cybersecurity, identify threats, and propose protective measures.	<ul style="list-style-type: none"> • Individual Report • Group Project • Individual Reflective Report • Peer Assessment
CLO3 : Examine the relationships between data governance, data management, and cybersecurity practices, emphasising their collaboration in delivering quality and compliant solutions.	<ul style="list-style-type: none"> • Individual Report • Group Project • Individual Reflective Report • Peer Assessment
CLO4 : Evaluate the ethical and legal implications of cybersecurity practices, with a focus on regulatory impacts related to privacy protection and data quality.	<ul style="list-style-type: none"> • Group Project • Individual Reflective Report • Peer Assessment
CLO5 : Collaborate effectively with team members to address cybersecurity challenges, reach consensus on actionable solutions, and communicate findings using language suitable for both technical and non-technical audiences.	<ul style="list-style-type: none"> • Group Project

Learning and Teaching Technologies

Moodle - Learning Management System

Learning and Teaching in this course

This course is developed and delivered within the context of the following learning and teaching philosophy.

In addition to students learning the fundamental content of the course, the content is designed to foster critical thinking and facilitate the acquisition of life-long learning skills. The course and its delivery are designed with a view to assisting in the development of problem-solving skills. The role of the lecturer/tutor of a course is to facilitate learning. It is recognised that students are individuals who bring a diverse range of experiences, interests and abilities, and that these aspects of the student will influence their own learning. The responsibility for learning lies with the student. The role of the lecturer/tutor then, is to provide the environment within which students can participate, contribute, interact and experiment while adding to their own skills and knowledge. An important element of such an environment is that students are encouraged to

engage in cooperative learning in an enjoyable setting.

Accordingly, assessment is weighted toward informed, reasoned, and well-argued personal opinion based on the contextual factors and constraints presented in the various scenarios and is consequently not based on the acquisition of knowledge alone.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates	Program learning outcomes
Individual Report Assessment Format: Individual	25%	Start Date: Not Applicable Due Date: Week 5: 11 March - 17 March	
Group Project Assessment Format: Group	30%	Due Date: Week 10: 15 April - 21 April, Week 11: 22 April - 28 April	• PL01 : Business Knowledge • PL02 : Problem Solving • PL03 : Business Communication • PL04 : Teamwork • PL05 : Responsible Business Practice
Individual Reflective Report Assessment Format: Individual	35%	Due Date: Multiple weeks	• PL01 : Business Knowledge • PL02 : Problem Solving • PL03 : Business Communication • PL05 : Responsible Business Practice
Peer Assessment Assessment Format: Individual	10%	Due Date: Week 10: 15 April - 21 April	

Assessment Details

Individual Report

Assessment Overview

Conduct independent research to investigate a real-world cybersecurity issue, incident, or problem and report findings.

Assesses: PL01, PL02

Course Learning Outcomes

- CL01 : Explain fundamental cybersecurity and data governance concepts and processes.
- CL02 : Apply best practice frameworks and tools to assess cybersecurity, identify threats, and

propose protective measures.

- CL03 : Examine the relationships between data governance, data management, and cybersecurity practices, emphasising their collaboration in delivering quality and compliant solutions.

Assessment Length

1500 words

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Group Project

Assessment Overview

Analyse cybersecurity case, propose solutions, and present.

Assesses: PLO1, PLO2, PLO3, PLO4, PLO5

Course Learning Outcomes

- CL01 : Explain fundamental cybersecurity and data governance concepts and processes.
- CL02 : Apply best practice frameworks and tools to assess cybersecurity, identify threats, and propose protective measures.
- CL03 : Examine the relationships between data governance, data management, and cybersecurity practices, emphasising their collaboration in delivering quality and compliant solutions.
- CL04 : Evaluate the ethical and legal implications of cybersecurity practices, with a focus on regulatory impacts related to privacy protection and data quality.
- CL05 : Collaborate effectively with team members to address cybersecurity challenges, reach consensus on actionable solutions, and communicate findings using language suitable for both technical and non-technical audiences.

Detailed Assessment Description

In teams, students will collaboratively design a cybersecurity business case. This task will include a strong emphasis on responsible business practices. Students must consider not only specific requirements and vulnerabilities but also the ethical, legal, and societal aspects of cybersecurity.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Individual Reflective Report

Assessment Overview

Weekly activities to build understanding and applied experience.

Assesses: PLO1, PLO2, PLO3, PLO5

Course Learning Outcomes

- CL01 : Explain fundamental cybersecurity and data governance concepts and processes.
- CL02 : Apply best practice frameworks and tools to assess cybersecurity, identify threats, and propose protective measures.
- CL03 : Examine the relationships between data governance, data management, and cybersecurity practices, emphasising their collaboration in delivering quality and compliant solutions.
- CL04 : Evaluate the ethical and legal implications of cybersecurity practices, with a focus on regulatory impacts related to privacy protection and data quality.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Peer Assessment

Assessment Overview

Students' feedback on their peers' group presentation.

Assesses: PLO1, PLO2, PLO3, PLO4

Course Learning Outcomes

- CL01 : Explain fundamental cybersecurity and data governance concepts and processes.
- CL02 : Apply best practice frameworks and tools to assess cybersecurity, identify threats, and propose protective measures.
- CL03 : Examine the relationships between data governance, data management, and cybersecurity practices, emphasising their collaboration in delivering quality and compliant solutions.
- CL04 : Evaluate the ethical and legal implications of cybersecurity practices, with a focus on regulatory impacts related to privacy protection and data quality.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

General Assessment Information

As a student at UNSW you are expected to display [academic integrity](#) in your work and interactions. Where a student breaches the [UNSW Student Code](#) with respect to academic integrity, the University may take disciplinary action under the Student Misconduct Procedure. To assure academic integrity, you may be required to demonstrate reasoning, research and the process of constructing work submitted for assessment.

To assist you in understanding what academic integrity means, and how to ensure that you do comply with the UNSW Student Code, it is strongly recommended that you complete the [Working with Academic Integrity](#) module before submitting your first assessment task. It is a free, online self-paced Moodle module that should take about one hour to complete.

You are expected to complete all assessment tasks for your courses in the School of Information Systems and Technology Management. Classes are highly practical and relevant to your assessments, so you are expected to attend at least 80% of all scheduled classes.

Where group assignments are used, team members are expected to work in a harmonious and professional fashion, which includes adequate management of non-performing members. You should inform your tutor as soon as possible if you experience problems within a project team. You may be required to evaluate the contribution of each team member (including yourself) in group work and marks for individual students may be adjusted based on peer assessment.

Grading Basis

Standard

Requirements to pass course

Students are required to attain a minimum score of 50 out of 100 to successfully pass the course.

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 12 February - 18 February	Lecture	Cybersecurity and data governance imperative: Basic concepts in cybersecurity management
	Tutorial	Introduction and workshop on cybersecurity and data governance
Week 2 : 19 February - 25 February	Lecture	Introduction to data security risk, cyberattacks and incidents
	Tutorial	Workshop on data security risk
Week 3 : 26 February - 3 March	Lecture	Data Management (Data Classification and Data Lifecycle Management)
	Tutorial	Workshop on data security risk cyberattacks and incidents
Week 4 : 4 March - 10 March	Lecture	Data Management (Data Classification and Data Lifecycle Management)
	Tutorial	Workshop on data security risk and data lifecycle management
Week 5 : 11 March - 17 March	Lecture	Data Governance Individual report assignment is due
	Tutorial	Workshop on data Management (Data Classification and Data Lifecycle Management)
Week 6 : 18 March - 24 March	Other	Recharge Week
Week 7 : 25 March - 31 March	Lecture	Responsible Practice (Data Quality, Privacy and Compliance) Group assignment start
	Tutorial	Workshop on responsible practice relevant to the group assignment
Week 8 : 1 April - 7 April	Lecture	Legal and ethical issues in cybersecurity management
	Tutorial	Workshop on responsible Practice (Data Quality, Privacy and Compliance)
Week 9 : 8 April - 14 April	Lecture	Information security policy and program
	Tutorial	Workshop on legal and ethical issues in cybersecurity management
Week 10 : 15 April - 21 April	Lecture	Incident Response, recovery and Review
	Tutorial	Group Presentations

Attendance Requirements

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

Course Resources

Prescribed Resources

The website for this course is on Moodle at: <http://moodle.telt.unsw.edu.au>.

All lecture slides and materials will be found on the course website. If only references to papers are provided, you should be able to find the papers in the online UNSW library.

Weekly reading materials will be accessible via UNSW library.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Maryam Shah bazi		Quad 2070		By appointment	No	Yes
Lecturer	Kevin Kuan		Quad 2072	+61 2 9348 1640	By appointment	No	No

Other Useful Information

Academic Information

COURSE POLICIES AND SUPPORT

The Business School expects that you are familiar with the contents of this course outline and the UNSW and Business School learning expectations, rules, policies and support services as listed below:

- Program Learning Outcomes
- Academic Integrity and Plagiarism
- Student Responsibilities and Conduct
- Special Consideration
- Protocol for Viewing Final Exam Scripts
- Student Learning Support Services

Further information is provided on the [key policies and support](#) page.

Students may not circulate or post online any course materials such as handouts, exams, syllabi or similar resources from their courses without the written permission of their instructor.

STUDENT LEARNING OUTCOMES

The Course Learning Outcomes (CLOs) – under the Outcomes tab – are what you should be able to demonstrate by the end of this course, if you participate fully in learning activities and successfully complete the assessment items.

CLOs also contribute to your achievement of the Program Learning Outcomes (PLOs), which are developed across the duration of a program. PLOs are, in turn, directly linked to [UNSW graduate capabilities](#). More information on Coursework PLOs is available on the [key policies and support](#) page. For PG Research PLOs, including MPDBS, please refer to the [UNSW HDR Learning](#)

Academic Honesty and Plagiarism

As a student at UNSW you are expected to display [academic integrity](#) in your work and interactions. Where a student breaches the [UNSW Student Code](#) with respect to academic integrity, the University may take disciplinary action under the Student Misconduct Procedure. To assure academic integrity, you may be required to demonstrate reasoning, research and the process of constructing work submitted for assessment.

To assist you in understanding what academic integrity means, and how to ensure that you do comply with the UNSW Student Code, it is strongly recommended that you complete the [Working with Academic Integrity](#) module before submitting your first assessment task. It is a free, online self-paced Moodle module that should take about one hour to complete.

Submission of Assessment Tasks

SPECIAL CONSIDERATION

You can apply for special consideration when illness or other circumstances beyond your control interfere with your performance in a specific assessment task or tasks, including online exams. Students studying remotely who have exams scheduled between 10pm and 7am local time, are also able to apply for special consideration to sit a supplementary exam at a time outside of these hours.

Special consideration is primarily intended to provide you with an extra opportunity to demonstrate the level of performance of which you are capable. To apply, and for further information, see Special Consideration on the UNSW [Current Students](#) page.

Special consideration applications will be assessed centrally by the Case Review Team, who will update the online application with the outcome and add any relevant comments. The change to the status of the application immediately sends an email to the student and to the assessor with the outcome of the application.

Please note the following:

1. Applications can only be made through Online Services in myUNSW (see the UNSW [Current Students](#) page). Applications will not be accepted by teaching staff. The lecturer-in-charge/

course coordinator will be automatically notified when your application is processed.

2. Applying for special consideration does not automatically mean that you will be granted a supplementary exam or other concession.
3. If you experience illness or misadventure in the lead up to an exam or assessment, you must submit an application for special consideration, either prior to the examination taking place, or prior to the assessment submission deadline, except where illness or misadventure prevent you from doing so.
4. If your circumstances stop you from applying before your exam or assessment due date, you must apply within 3 working days of the assessment or the period covered by your supporting documentation.
5. Under the UNSW Fit To Sit/Submit rule, if you sit the exam/submit an assignment, you are declaring yourself well enough to do so and are cannot subsequently apply for special consideration.
6. If you become unwell on the day of – or during – an exam, you must stop working on your exam, advise your course coordinator or tutor and provide a medical certificate dated within 24 hours of the exam, with your special consideration application. For online exams, you must contact your course coordinator or tutor immediately via email, Moodle or chat and advise them you are unwell and submit screenshots of your conversation along with your medical certificate and application.
7. Special consideration requests do not allow the awarding of additional marks to students.

Further information on Business School policy and procedure can be found under “Special Consideration” on the [key policies and support](#) page.

LATE SUBMISSION PENALTIES

For assessments other than examinations, late submission will incur a penalty of 5% per day or part thereof (including weekends) from the due date and time. An assessment will not be accepted after 5 days (120 hours) of the original deadline unless special consideration has been approved. An assignment is considered late if the requested format, such as hard copy or electronic copy, has not been submitted on time or where the ‘wrong’ assignment has been submitted.

For assessments which account for 10% or less of the overall course grade, and where answers are immediately discussed or debriefed, the LIC may stipulate a different penalty. Details of such late penalties will be available on the course Moodle page.

FEEDBACK ON YOUR ASSESSMENT TASK PERFORMANCE

Feedback on student performance from formative and summative assessment tasks will be provided to students in a timely manner. Assessment tasks completed within the teaching period

of a course, other than a final assessment, will be assessed and students provided with feedback, with or without a provisional result, within 10 working days of submission, under normal circumstances. Feedback on continuous assessment tasks (e.g. laboratory and studio-based, workplace-based, weekly quizzes) will be provided prior to the midpoint of the course.

Faculty-specific Information

PROTOCOL FOR VIEWING FINAL EXAM SCRIPTS

UNSW students have the right to view their final exam scripts, subject to a small number of very specific exemptions. The UNSW Business School has set a [protocol](#) under which students may view their final exam script. Individual schools within the Faculty may also set up additional local processes for viewing final exam scripts, so it is important that you check with your School.

If you are completing courses from the following schools, please note the additional school-specific information:

- Students in the **School of Accounting, Auditing & Taxation** who wish to view their final examination script should also refer to [this page](#).
- Students in the **School of Banking & Finance** should also refer to [this page](#).
- Students in the **School of Information Systems & Technology Management** should also refer to [this page](#).

COURSE EVALUATION AND DEVELOPMENT

Feedback is regularly sought from students and continual improvements are made based on this feedback. At the end of this course, you will be asked to complete the [myExperience survey](#), which provides a key source of student evaluative feedback. Your input into this quality enhancement process is extremely valuable in assisting us to meet the needs of our students and provide an effective and enriching learning experience. The results of all surveys are carefully considered and do lead to action towards enhancing educational quality.

QUALITY ASSURANCE

The Business School is actively monitoring student learning and quality of the student experience in all its programs. A random selection of completed assessment tasks may be used for quality assurance, such as to determine the extent to which program learning goals are being achieved. The information is required for accreditation purposes, and aggregated findings will be used to inform changes aimed at improving the quality of Business School programs. All

material used for such processes will be treated as confidential.

TEACHING TIMES AND LOCATIONS

Please note that teaching times and locations are subject to change. Students are strongly advised to refer to the [Class Timetable website](#) for the most up-to-date teaching times and locations.