



# COMP6013

## Introduction to Cyber Security

Session 1, Online-scheduled-weekday 2023

*School of Computing*

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## General Information

Unit convenor and teaching staff

Unit Convenor

Matthew Mansour

[matthew.mansour@mq.edu.au](mailto:matthew.mansour@mq.edu.au)

Refer to ilearn

Lecturer

Dinusha Vatsalan

[dinusha.vatsalan@mq.edu.au](mailto:dinusha.vatsalan@mq.edu.au)

Refer to ilearn

Credit points

10

Prerequisites

Corequisites

Co-badged status

Unit description

This unit tackles cyber security as a multidisciplinary issue. It introduces information security and important technology concepts as well as cyber hygiene principles to remain safe in the digital world. It discusses cyber criminality (perpetrators and activities on the dark web), its impact on society, and prompts for us to critically think about the relationship between cyber security and privacy, from a legal standpoint. Finally, this unit provides insights into the cybersecurity risks faced by businesses and the role that risk management plays in addressing those risks in the context of corporate governance.

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

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

**ULO1:** Demonstrate an understanding of technical concepts related to information security, computing, networking, and emerging technologies.

**ULO2:** Apply cyber hygiene principles to achieve personal security in the digital world

**ULO3:** Report on cyber criminality (in terms of activities, perpetrators and their motives) as well as its impact on society.

**ULO4:** Critically evaluate the relation between cyber security and privacy in the context of a legal and regulatory framework.

**ULO5:** Identify cybersecurity risks faced by businesses and relate the management of those risks to enterprise governance.

## General Assessment Information

**General Faculty Policy on assessment submission deadlines and late submissions:**

### Late Assessment Submission Penalty

From 1 July 2022, Students enrolled in Session based units with written assessments will have the following late penalty applied. Please see <https://students.mq.edu.au/study/assessment-exams/assessments> for more information.

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark) will be applied each day a written assessment is not submitted, up until the 7<sup>th</sup> day (including weekends). After the 7<sup>th</sup> day, a grade of '0' will be awarded even if the assessment is submitted. Submission time for all written assessments is set at **11:55 pm**. A 1-hour grace period is provided to students who experience a technical concern.

### Assessments where Late Submissions will be accepted

In this unit, late submissions will be accepted as follows:

In class assessments, YES, Standard Late Penalty applies

Report, YES, Standard Late Penalty applies

Final Take Home Essay, YES, Standard Late Penalty applies

For any late submission of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for [Special Consideration](#).

**To be eligible to pass this unit, it is necessary to obtain a mark of at least 50% in the unit overall.**

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">In-class assessment</a>	30%	No	Weeks 4/6/8/10/12
<a href="#">Individual Report</a>	30%	No	Week 7

Name	Weighting	Hurdle	Due
<a href="#"><u>Final take-home essay</u></a>	40%	No	TBA on ilearn

## In-class assessment

Assessment Type <sup>1</sup>: Presentation

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Weeks 4/6/8/10/12**

Weighting: **30%**

This assessment task takes place in class (online or in class). It involves group work, debate, and/or presentations. The Assessments happen on a fortnightly basis with the week prior being the preparation week. In order to complete the presentation, you must be present in the preparation week also.

On successful completion you will be able to:

- Demonstrate an understanding of technical concepts related to information security, computing, networking, and emerging technologies.
- Apply cyber hygiene principles to achieve personal security in the digital world
- Report on cyber criminality (in terms of activities, perpetrators and their motives) as well as its impact on society.
- Critically evaluate the relation between cyber security and privacy in the context of a legal and regulatory framework.

## Individual Report

Assessment Type <sup>1</sup>: Report

Indicative Time on Task <sup>2</sup>: 20 hours

Due: **Week 7**

Weighting: **30%**

The assessment task is to write a report with scholarly references that will address a contemporary topic relating to Cyber Security.

On successful completion you will be able to:

- Demonstrate an understanding of technical concepts related to information security, computing, networking, and emerging technologies.

- Apply cyber hygiene principles to achieve personal security in the digital world
- Report on cyber criminality (in terms of activities, perpetrators and their motives) as well as its impact on society.
- Critically evaluate the relation between cyber security and privacy in the context of a legal and regulatory framework.
- Identify cybersecurity risks faced by businesses and relate the management of those risks to enterprise governance.

## Final take-home essay

Assessment Type <sup>1</sup>: Essay

Indicative Time on Task <sup>2</sup>: 20 hours

Due: **TBA on ilearn**

Weighting: **40%**

A final essay is included as an assessment task for this unit to provide assurance that i) the product belongs to the student, and, ii) the student has attained the knowledge and skills from the unit. The student will have a short period of 72 hours to complete the essay.

On successful completion you will be able to:

- Demonstrate an understanding of technical concepts related to information security, computing, networking, and emerging technologies.
- Apply cyber hygiene principles to achieve personal security in the digital world
- Report on cyber criminality (in terms of activities, perpetrators and their motives) as well as its impact on society.
- Critically evaluate the relation between cyber security and privacy in the context of a legal and regulatory framework.
- Identify cybersecurity risks faced by businesses and relate the management of those risks to enterprise governance.

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<sup>1</sup> If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

<sup>2</sup> Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

## Delivery and Resources

### Teaching and Learning Strategy

COMP1300 is taught via Live lectures (in class) and streamed via Echo. Tutorials (Live on campus OR Live via Zoom - check timetables.mq.edu.au for which classes are on campus and which are online. NB You cannot mix modes). The feedback that you receive plays also a crucial role in your learning.

Lectures are used to introduce new material, give examples of the advances in Cyber Security and technologies and put them in a wider context. The unit is an introduction which in turn will be explored further in other units at Macquarie University.

Tutorials are small group classes which give you the opportunity to interact with your peers and with a tutor who has a sound knowledge of the subject. This also gives you a chance to practice your soft skills. **NB. For this semester for COMP1300, tutorials start in week 2 and the Lectures start in week 1.**

You have many opportunities to seek for and to receive feedback. During lectures, you are encouraged to ask the lecturer questions to clarify anything you might not be sure of.

Each week you should:

- Attend live lectures, take notes, ask questions
- Attend your tutorials and seek feedback from your tutor on your work
- Read assigned reading material, add to your notes and prepare questions for your lecturer or tutor
- Start working on any assessments immediately after they have been released.

Lecture notes are made available each week but these notes are intended as an outline of the lecture only and are not a substitute for your own notes or reading additional material.

### Classes

Each week you should attend two hours of live lectures (via Zoom), and a one hour tutorial class (on campus OR online via Zoom)

Please note that you are **required** to submit a certain number of assessments. Failure to do so may result in you failing the unit.

### Textbook.

Being a fast paced ever evolving unit, it was deemed that a textbook would not validate the complexity of Cyber Security. In turn we have used resources from 3 Faculties to give you as much exposure to Cyber Security and the real world.

### Technology used and required

Echo

Digital recordings of lectures are available.

COMP1300 makes use of the following software in the lab:

- Microsoft Windows 10 +
- Microsoft Office 2016 +
- Edge or Mozilla Firefox or Chrome

## Website

The web page for this unit can be found at: <http://ilearn.mq.edu.au>.

## Student Support Services

Macquarie University provides a range of Academic Student Support Services. Details of these services can be accessed at <http://www.student.mq.edu.au>.

## Assumed knowledge

Basic computer use skills.

# Unit Schedule

Week	Lecture Topics/Events	Assessments
1	When... not if... <i>Intro to Cyber Security unit. (MM)</i>	<b>Tutorials start in week 2</b> <b>Lectures start in week 1</b>
2	Cyber Hygiene – <i>How clean are you? (MM)</i>	Practice in_class assessment – Data Breach Poster
3	The Human Factor (MM)	In class assessment - Prep week
4	Basics of Protection (DV)	In class assessment - <b>Presentation week</b>
5	Computing Basics for Cyber Security (DV)	In class assessment - Prep week
6	Societal Security (MM)	In class assessment - <b>Presentation week</b>
7	Impact on Business and Cyber Governance – <i>Who's loses their job? (MM)</i>	In class assessment - Prep week <b>&amp;</b> <b>Individual Report Due : Thurs 6th Apr @ 11.59pm</b>
8	Cybercrime / Cybercriminal's ( DV)	In class assessment - <b>Presentation week</b>
9	Cryptography (DV)	In class assessment - Prep Week
10	IoT and Emerging Tech (DV)	In class assessment - <b>Presentation Week</b>

11	Industry Experts (MM)	In class assessment - Prep Week
12	The Future – How is Cyber Security going to impact us (DV)	In class assessment - <b>Presentation Week</b>
13	Discussion about the Final Exam (MM / DV)	Wrap up and Cyber Security Ethics Simulation

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

## Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [ask.mq.edu.au](https://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing an](#)



[d maths support](#), [academic skills development](#) and [wellbeing consultations](#).

## Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

### The Writing Centre

[The Writing Centre](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

## Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and processes

## Student Enquiries

Got a question? Ask us via [AskMQ](#), or contact [Service Connect](#).

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

## Changes from Previous Offering

Updated material

New Report

New SC policy

Hybrid Echo