COMP3320
Cyber Security Management in Practice
Session 1, In person-scheduled-weekday, North Ryde 2024
School of Computing

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https://unitguides.mq.edu.au/unit_offerings/163038/unit_guide/print
General Information

Unit convenor and teaching staff
Milton Baar
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Dinusha Vatsalan
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Credit points
10

Prerequisites
(130cp at 1000 level or above and (COMP1300 or COMP107) and (COMP1350 or ISYS114) and (COMP343 or COMP2300))

Corequisites

Co-badged status
COMP6325

Unit description
This unit provides a practical introduction to cyber security management. It tackles GRC (Governance, Risk Management, Compliance) and incident response. As such, it covers a range of topics including legal and ethical issues, human factor and security culture, legacy systems, security supply chain, regulatory frameworks and policy development, incident triage and business recovery. Effective communication to non-technical audiences plays also a key role in this unit.

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: Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.

ULO2: Use qualitative and quantitative risk assessment techniques to both manage cyber security risk by selecting controls and to communicate risk management strategies
to business stakeholders.

**ULO3:** Manage operational security by developing plans to support business continuity and cyber incident response, including digital forensics and evidence management.

### General Assessment Information

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

Online quizzes, in-class activities, or scheduled tests and exam must be undertaken at the time indicated in the unit guide. Should these activities be missed due to illness or misadventure, students may apply for Special Consideration.

All other assessments must be submitted by 23:55 on their due date.

Should these assessments be missed due to illness or misadventure, students should apply for Special Consideration.

Assessments not submitted by the due date will receive a mark of zero unless late submissions are specifically allowed as indicated in the unit guide or on iLearn.

**Late Assessment Submission**

Late assessments are not accepted in this unit unless a Special Consideration has been submitted and approved.

**Requirements to Pass this Unit**

To pass this unit you must:

1. Attempt all assessments, and
2. Achieve a total mark equal to or greater than 50%

**Module Examinations**

Module Examinations will be scheduled during the second hour of the weekly lecture in weeks 5, 9 and 13, and will replace that week’s second hour of lectures; there is no SGTA scheduled for Weeks 05/09/13. Your attention is drawn to the university’s 'Fit to Sit' policy, which states that by commencing an examination you are certifying yourself as fit to sit that examination. In particular, if you commence a Module Examination late, with insufficient time to finish it, you will not be offered a Supplementary Examination. It is the responsibility of students to make sure that they are aware of the time at which the Module Exam will commence.

**Supplementary Examinations**

Applications for Supplementary Examinations under the Disruption to Studies Policy must be made via AskMQ. If this is approved, the Unit Convenor will attempt to schedule an examination at a time convenient to the student and will notify the student of the date and time of the examination in a timely fashion.

[https://unitguides.mq.edu.au/unit_offerings/163038/unit_guide/print](https://unitguides.mq.edu.au/unit_offerings/163038/unit_guide/print)
Special Consideration
The Special Consideration Policy aims to support students who have been impacted by short-term circumstances or events that are serious, unavoidable and significantly disruptive, and which may affect their performance in assessment. If you experience circumstances or events that affect your ability to complete the assessments in this unit on time, please inform the convener and submit a Special Consideration request through ask.mq.edu.au.

Weekly Tasks
Assessment Type 1: Quiz/Test Indicative Time on Task 2: 5 hours Due: Each week Weighting: 20%
Each week material will be followed by a short quiz to test student understanding. The final mark will be calculated from the best 10 of 12 scores achieved by the student. Zero/non-attempted quiz marks are included in the average calculation.
On successful completion you will be able to:

- Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.
- Use qualitative and quantitative risk assessment techniques to both manage cyber security risk by selecting controls and to communicate risk management strategies to business stakeholders.
- Manage operational security by developing plans to support business continuity and cyber incident response, including digital forensics and evidence management.

Module Exam #1
Assessment Type 1: Examination Indicative Time on Task 2: 7 hours Due: Week 5 Weighting: 15%
A 50 minutes long online written examination worth 20% that will be held in week 5 during the second hour of lectures. This will test your understanding of material covered in weeks 1 to 4.
On successful completion you will be able to:

- Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.

Module Exam #2
Assessment Type 1: Examination Indicative Time on Task 2: 7 hours Due: Week 9 Weighting: 15%
A 50 minutes long online written examination worth 20% that will be held in week 9 during the
second hour of lectures. This will test your understanding of material covered in weeks 5 to 8. On successful completion you will be able to:

- Use qualitative and quantitative risk assessment techniques to both manage cyber security risk by selecting controls and to communicate risk management strategies to business stakeholders.

Module Exam #3
Assessment Type 1: Examination Indicative Time on Task 2: 6 hours Due: Week 13 Weighting: 15%
A 50 minutes long online written examination worth 20% that will be held in week 13 during the second hour of lectures. This will test your understanding of material covered in weeks 9 to 12. On successful completion you will be able to:

- Manage operational security by developing plans to support business continuity and cyber incident response, including digital forensics and evidence management.

Assignment
Assessment Type 1: Project Indicative Time on Task 2: 24 hours Due: Week 11 Weighting: 35%
In this assignment, the student is required to complete a research project into current Cyber Security matters in the news, that reinforce the material in Modules 1 and 2. On successful completion you will be able to:

- Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.

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.

2 Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation.
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly Tasks</td>
<td>20%</td>
<td>No</td>
<td>Each week by 1700 Sunday</td>
</tr>
<tr>
<td>Module Exam #1</td>
<td>15%</td>
<td>No</td>
<td>Week 5</td>
</tr>
<tr>
<td>Module Exam #2</td>
<td>15%</td>
<td>No</td>
<td>Week 9</td>
</tr>
<tr>
<td>Module Exam #3</td>
<td>15%</td>
<td>No</td>
<td>Week 13</td>
</tr>
<tr>
<td>Assignment 1</td>
<td>35%</td>
<td>No</td>
<td>Week 11</td>
</tr>
</tbody>
</table>

Weekly Tasks

Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 5 hours
Due: Each week by 1700 Sunday
Weighting: 20%

The final mark will be calculated from the best 10 non-zero of 12 scores achieved by the student; only quizzes actually attempted are considered non-zero. The quiz/test is worth 20%.

On successful completion you will be able to:

- Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.
- Use qualitative and quantitative risk assessment techniques to both manage cyber security risk by selecting controls and to communicate risk management strategies to business stakeholders.
- Manage operational security by developing plans to support business continuity and cyber incident response, including digital forensics and evidence management.

Module Exam #1

Assessment Type 1: Examination
Indicative Time on Task 2: 7 hours
Due: Week 5
Weighting: 15%
A 50 minutes long online examination worth 15% that will test your understanding of material covered in weeks 1 to 4.

On successful completion you will be able to:

- Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.

Module Exam #2
Assessment Type: Examination
Indicative Time on Task: 7 hours
Due: Week 9
Weighting: 15%

A 50 minutes long online examination worth 15% that will test your understanding of material covered in weeks 5 to 8.

On successful completion you will be able to:

- Use qualitative and quantitative risk assessment techniques to both manage cyber security risk by selecting controls and to communicate risk management strategies to business stakeholders.

Module Exam #3
Assessment Type: Examination
Indicative Time on Task: 7 hours
Due: Week 13
Weighting: 15%

A 50 minutes long online examination worth 15% that will test your understanding of material covered in weeks 9 to 12.

On successful completion you will be able to:

- Manage operational security by developing plans to support business continuity and cyber incident response, including digital forensics and evidence management.
Assignment 1
Assessment Type: Project
Indicative Time on Task: 24 hours
Due: Week 11
Weighting: 35%

In this assignment, the student will be set a written task based on the material covered in Module 1 and Module 2. The assignment is worth 35%.

On successful completion you will be able to:
• Use international frameworks and Standards to develop cyber security policies, standards and procedures as part of an information security management system, including legal and regulatory compliance.

1 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.

2 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

Week 1 classes
Lecgtures and SGTA commence in Week 01 and all students are expected to attend the lectures and SGTA.

Textbooks and Readings
Each lecture will require the student to read a provided text selected from a range of cyber security frameworks, Standards, textbooks, guides to best practice, blogs and other sources. Readings will be posted on iLearn and must be completed before the tutorial workshop, as the workshops are highly interactive.


Relevant international Standards have been purchased by the University Library and placed in Reserve for use by COMP3320/6325 students.
Lectures
The lecture content of this unit will be delivered on campus - please check the timetables page for details. If there is a suitably high physical attendance at weekly lectures, then Guest lecturers and interview subjects may provide 'real-world' case studies and examples. There will be approximately two hours of lecture content each week, which students can view at their own pace if they are unable to attend the on-campus lecture.

Small Group Teaching Activities (SGTA)
Students should participate in weekly SGTA on campus; these activities vary between workshops, practical tasks and tutorials.

Cyber security management is, in large part, about communicating threats and risks to business executives and understanding how to achieve the enterprise's goals while dealing with those threats and risks. Students should therefore expect to develop and make use of their speaking skills during the sessions, and their writing skills during post-workshop discussions on iLearn.

Methods of Communication
We will communicate with you via your university email and through announcements on iLearn. Queries to convenors can either be placed on the iLearn discussion board or sent to the unit convenor via the contact email on iLearn.

COVID Information
For the latest information on the University’s response to COVID-19, please refer to the Coronavirus infection page on the Macquarie website: https://www.mq.edu.au/about/coronavirus-faqs. Remember to check this page regularly in case the information and requirements change during semester. If there are any changes to this unit in relation to COVID, these will be communicated via iLearn.

Unit Schedule
The unit comprises three major modules, each separately examinable.

Module 1: Governance and Compliance
- Introduction and Overview
- Business and security operations
- Governance, legal and regulatory, frameworks, standards and compliance
- Security architecture, authentication and access control models
- The Human Factor: Policies, culture and communication

Module 2 - Information Risk Management
- Introduction to Information Risk Management
- Threat Intelligence, Qualitative Risk Management
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (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). 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) 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 or if you are a Global MBA student contact 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 and 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/.

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

We value student feedback to be able to continually improve the way we offer our units. As such we encourage students to provide constructive feedback via student surveys, to the teaching staff directly, or via the FSE Student Experience & Feedback link in the iLearn page. Student feedback from the previous offering of this unit was very positive overall, with students pleased with the clarity around assessment requirements and the level of support from teaching staff. As such, no change to the delivery of the unit is planned, however we will continue to strive to improve the level of support and the level of student engagement.

This unit no longer has an online component, it is face-to-face only.

Unit information based on version 2024.01R of the Handbook