COMP6325
Cyber Security Management in Practice
Session 1, Weekday attendance, North Ryde 2020
Dept of Computing

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General Information

Unit convenor and teaching staff
Convenor and Lecturer
Les Bell
les.bell@mq.edu.au
TBA

Credit points
10

Prerequisites
Admission to MInfoTechCyberSec

Corequisites

Co-badged status
COMP3320

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://students.mq.edu.au/important-dates

Learning Outcomes

**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.

https://unitguides.mq.edu.au/unit_offerings/122827/unit_guide/print
General Assessment Information

Late Submission

No extensions will be granted without an approved application for Special Consideration. There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late. For example, 25 hours late in submission for an assignment worth 10 marks – 20% penalty or 2 marks deducted from the total. No submission will be accepted after solutions have been posted.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Examination 1</td>
<td>20%</td>
<td>No</td>
<td>Week 5</td>
</tr>
<tr>
<td>Module Examination 2</td>
<td>20%</td>
<td>No</td>
<td>Week 9</td>
</tr>
<tr>
<td>Module Examination 3</td>
<td>20%</td>
<td>No</td>
<td>During examination period</td>
</tr>
<tr>
<td>Assignment 1</td>
<td>15%</td>
<td>No</td>
<td>Week 8</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>15%</td>
<td>No</td>
<td>Week 13</td>
</tr>
<tr>
<td>Tutorial Tasks</td>
<td>10%</td>
<td>No</td>
<td>Each week</td>
</tr>
</tbody>
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Module Examination 1
Assessment Type 1: Examination
Indicative Time on Task 2: 10 hours
Due: **Week 5**
Weighting: **20%**

Module Examination 1

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 Examination 2
Assessment Type 1: Examination
Indicative Time on Task 2: 10 hours
Due: **Week 9**
Weighting: **20%**
Module Examination 2

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 Examination 3

Assessment Type 1: Examination
Indicative Time on Task 2: 10 hours
Due: **During examination period**
Weighting: **20%**

Module Examination 3

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 1: Project
Indicative Time on Task 2: 7 hours
Due: **Week 8**
Weighting: **15%**

Assignment 1

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.

Assignment 2

Assessment Type 1: Project
Indicative Time on Task 2: 7 hours
Due: **Week 13**
Weighting: **15%**

Assignment 2

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.

Tutorial Tasks
Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 5 hours
Due: Each week
Weighting: 10%

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.

1 If you need guidance or support to understand or complete this type of assessment, please contact the Learning Skills Team
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
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 lecture, as the lectures are highly interactive workshops.

Relevant international Standards have been purchased by the University Library and placed in Reserve for use by ITEC663 students.

Lectures
The lectures for this unit will be workshop-based, and students are expected to come prepared for discussion of the issues and challenges posed by the readings. 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 workshop sessions.

In addition, guest lecturers will provide 'real-world' case studies and examples.

**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
- The Human Factor: Policies, culture and communication

**Module 2 - Information Risk Management**
- Introduction to Information Risk Management
- Threat Intelligence, Qualitative Risk Management
- Estimation, Calibration and Quantitative Risk Management
- Advanced Risk Management

**Module 3 - Security Operations**
- Business Continuity and Disaster Recovery Planning
- The Incident Response Cycle
- Incident Analysis, logs and SIEM
- Digital Forensics and Evidence Management

**Policies and Procedures**

Macquarie University policies and procedures are accessible from [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). 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
• Grade Appeal Policy
• Complaint Management Procedure for Students and Members of the Public
• **Special Consideration Policy** *(Note: The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)*

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

If you would like to see all the policies relevant to Learning and Teaching visit **Policy Central** *(https://staff.mq.edu.au/work(strategy-planning-and-governance/university-policies-and-procedures/policy-central)*).

**Student Code of Conduct**

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/study/getting-started/student-conduct](https://students.mq.edu.au/study/getting-started/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](http://ask.mq.edu.au) or if you are a Global MBA student contact globalmba.support@mq.edu.au

**Student Support**

Macquarie University provides a range of support services for students. For details, visit [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)

**Learning Skills**

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- **Workshops**
- **StudyWise**
- **Academic Integrity Module for Students**
- **Ask a Learning Adviser**

**Student Enquiry Service**

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)
Equity Support
Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

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.