



PICT8040

Cyber Crime and Cyber Policing

Session 2, In person-scheduled-weekday, North Ryde 2022

Department of Security Studies and Criminology

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General Information

Unit convenor and teaching staff

Jeffrey Foster

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Credit points

10

Prerequisites

Admission to MPICT or MCPICT or GradDipPICT or GradDipCPICT or PGCertPICT or MPICTMIntSecSt or MCPICTMIntSecSt or MIntSecStud or GradDipIntSecStud or GradCertIntell or MCTerrorism or MCyberSec or GradDipSecStudCr or GradCertSecStudCr or MIntell or MSecStrategicStud or MCrim or MSecStrategicStudMCrim or MSecStrategicStudMIntell or MSecStrategicStudMCyberSec or MSecStrategicStudMCTerrorism or MIntellMCrim or MIntellMCyberSec or MIntellMCTerrorism or MCyberSecMCTerrorism or MCyberSecMCrim or MCTerrorismMCrim or Master of Cyber Security Analysis or MBusAnalytics or MInfoSystMgmt or MInfoTechCyberSec or MInfoTechNetWork or ((Admission to BSecStudMCTerrorism or BSecStudMCrim or BSecStudMCyberSecAnalysis or BSecStudMIntell or BSecStudMSecStrategicStud) and (50 cp at 2000 level)).

Corequisites

Co-badged status

Unit description

Cybercrime refers to an array of criminal activity including offences against computer data and systems, computer-related offences, content offences, and copyright offences. While early computer hackers were more interested in youthful exploration, modern cybercrime is increasingly about criminal profit and this is reflected in the involvement of transnational organised crime groups. This unit will explore the types of cybercrime, the perpetrators, and investigation techniques.

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: Understand, analyse, and critically discuss different types of cyber crime activities

with respect to the motivations, methods of operation of offenders, and the types of victims/targets.

ULO2: Demonstrate a comprehensive understanding of past, current cyber threats and future trends in high tech crime.

ULO3: Analyse the impact of cyber crime on government, businesses, society and individuals.

ULO4: Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

General Assessment Information

SUBMITTING ASSESSMENT TASKS

- All text-based assessment tasks are to be submitted, marked and returned electronically. This will only happen through the unit iLearn site.
- Assessment tasks must be submitted as a MS word document by the due date.
- Most assessment tasks will be subject to a 'Turnitin' review as an automatic part of the submission process.
- The granting of extensions is subject to the university's Special Consideration Policy. Extensions will not be granted by unit conveners or tutors, but must be lodged through Special Consideration: <https://students.mq.edu.au/study/my-study-program/special-consideration>

Late Assessment Submission Penalty

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 7th day (including weekends). After the 7th day, a mark of '0' (zero) will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical issue.

This late penalty will apply to written reports and recordings only. Late submission of time sensitive tasks (such as tests/exams, performance assessments/presentations, scheduled practical assessments/labs will be addressed by the unit convenor in a Special consideration application.

WORD LIMITS FOR ASSESSMENT TASKS

- Stated word limits include footnotes and footnoted references, but not bibliography, or title page.
- Word limits can generally deviate by 10% either over or under the stated figure.
- If the number of words exceeds the limit by more than 10%, then penalties will apply. These penalties are 5% of the awarded mark for every 100 words over the word limit. If a

paper is 300 words over, for instance, it will lose $3 \times 5\% = 15\%$ of the total mark awarded for the assignment. This percentage is taken off the total mark, i.e. if a paper was graded at a credit (65%) and was 300 words over, it would be reduced by 15 marks to a pass (50%).

- The application of this penalty is at the discretion of the course convener.

REASSESSMENT OF ASSIGNMENTS DURING THE SESSION

- Macquarie University operates a Grade Appeal Policy in cases where students feel their work was graded inappropriately: <http://www.mq.edu.au/policy/docs/gradeappeal/policy.html>
- In accordance with the Grade Appeal Policy, individual works are not subject to regrading.

Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Research Essay</u>	50%	No	11:59PM, 25th of Oct, 2022
<u>Case Study</u>	30%	No	11:59PM, 9th Sept., 2022
<u>Weekly Participation</u>	10%	No	11:59PM, Sunday of every week
<u>Weekly Quizzes</u>	10%	No	11:59PM, Sundays Weeks 3-12

Research Essay

Assessment Type ¹: Essay

Indicative Time on Task ²: 60 hours

Due: **11:59PM, 25th of Oct, 2022**

Weighting: **50%**

Research Essay on Specific Cyber Crime Issue

On successful completion you will be able to:

- Understand, analyse, and critically discuss different types of cyber crime activities with respect to the motivations, methods of operation of offenders, and the types of victims/targets.
- Demonstrate a comprehensive understanding of past, current cyber threats and future trends in high tech crime.
- Analyse the impact of cyber crime on government, businesses, society and individuals.

- Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

Case Study

Assessment Type **1**: Essay

Indicative Time on Task **2**: 40 hours

Due: **11:59PM, 9th Sept., 2022**

Weighting: **30%**

Cyber Breach Case Study

On successful completion you will be able to:

- Understand, analyse, and critically discuss different types of cyber crime activities with respect to the motivations, methods of operation of offenders, and the types of victims/ targets.
- Demonstrate a comprehensive understanding of past, current cyber threats and future trends in high tech crime.
- Analyse the impact of cyber crime on government, businesses, society and individuals.
- Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

Weekly Participation

Assessment Type **1**: Participatory task

Indicative Time on Task **2**: 13 hours

Due: **11:59PM, Sunday of every week**

Weighting: **10%**

Weekly participation in weekly discussions

On successful completion you will be able to:

- Understand, analyse, and critically discuss different types of cyber crime activities with respect to the motivations, methods of operation of offenders, and the types of victims/ targets.
- Demonstrate a comprehensive understanding of past, current cyber threats and future trends in high tech crime.
- Analyse the impact of cyber crime on government, businesses, society and individuals.
- Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

Weekly Quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 11 hours

Due: **11:59PM, Sundays Weeks 3-12**

Weighting: **10%**

10 weekly quizzes

On successful completion you will be able to:

- Understand, analyse, and critically discuss different types of cyber crime activities with respect to the motivations, methods of operation of offenders, and the types of victims/targets.
- Demonstrate a comprehensive understanding of past, current cyber threats and future trends in high tech crime.
- Analyse the impact of cyber crime on government, businesses, society and individuals.
- Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

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

UNIT REQUIREMENTS AND EXPECTATIONS

- You should spend an average of 12 hours per week on this unit. This includes listening to lectures prior to seminar or tutorial, reading weekly required materials as detailed in iLearn, participating in iLearn discussion forums and preparing assessments.
- Internal students are expected to attend all seminar or tutorial sessions, and external students are expected to make significant contributions to on-line activities.
- In most cases students are required to attempt and submit all major assessment tasks in order to pass the unit.

REQUIRED READINGS

- The citations for all the required readings for this unit are available to enrolled students through the unit iLearn site, and at Macquarie University's library site. Electronic copies of required readings may be accessed through the library or will be made available by other means.

TECHNOLOGY USED AND REQUIRED

- Computer and internet access are essential for this unit. Basic computer skills and skills in word processing are also a requirement.
- This unit has an online presence. Login is via: <https://ilearn.mq.edu.au/>
- Students are required to have regular access to a computer and the internet. Mobile devices alone are not sufficient.
- Information about IT used at Macquarie University is available at http://students.mq.edu.au/it_services/

STAFF AVAILABILITY

- Department staff will endeavour to answer student enquiries in a timely manner. However, emails or iLearn messages will not usually be answered over the weekend or public holiday period.
- Students are encouraged to read the Unit Guide and look at instructions posted on the iLearn site before sending email requests to staff.

Unit Schedule

Tentative Class Schedule

Module	Week Starting	Topic	Primary Reading
1	25 Jul 2022	Intro & Overview	Ch. 1: Technology & Cybercrime
2	1 Aug 2022	History of Cyber Crime	Ch. 3: Computer Hackers & Hacking
3	8 Aug 2022	Cyber Crime Methods	Ch. 4: Malware & Automated Computer Attacks
4	15 Aug 2022	Cyber Crime Motives	Ch. 13: Cybercrime & Criminological Theories
5	22 Aug 2022	Cyber Enabled Crime	Ch. 12: Illicit Market Operations Online
6	29 Aug 2022	Cyber Stalking and Cyber Bullying	Ch. 9: CyberBullying, Online Harassment, & CyberStalking

7	5 Sep 2022	Predatory and Content Crime	Ch. 8: Child Sexual Exploitation Material Offences
InterSession Break	12 Sep 2022		
InterSession Break	19 Sep 2022		
8	26 Sep 2022	Financial Cyber Crime	Ch. 6: Online Fraud
9	3 Oct 2022	Cyber Crime Incident Response	TBD
10	10 Oct 2022	Digital Piracy and IP Theft	Ch. 5: Digital Piracy & Intellectual Property Theft
11	17 Oct 2022	Digital Forensics and Cyber Investigation	Ch. 14: Evolution of Digital Forensics
12	24 Oct 2022	Modern Cyber-warfare	Ch. 11: Cyberwarfare & Information Operations Online
13	31 Oct 2022	Wrap-up	

Please note, exact order of topics may vary during the semester as needed.

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 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 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.