PICT840

Cyber Crime

S2 External 2018

Department of Security Studies and Criminology

Contents

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General Information

Unit convenor and teaching staff
Convenor
Stephen McCombie
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Contact via Email
Level 2, South Wing, Australian Hearing Hub, 16 University Avenue
By appointment

Credit points
4

Prerequisites
Admission to MCrim or MPICT or MCPICT or PGDipPICT or GradDipPICT or GradDipCPICT or PGCertPICT or GradCertPICT or GradCertCPICT or MPICTMIntSecSt or MCPICTMIntSecSt or MIntSecStud or PGDipIntSecStud or GradDipIntSecStud or PGCertIntSecStud or MCompForens or PGDipCompForens or PGCertCompForens or MInfoTech or MSecStrategicStud or MIntell or MCTerrorism or MCyberSec or GradDipSecStudCr or GradCertSecStudCr

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:

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 knowledge of relevant theories, cross disciplinary approaches (criminology and information security), and the applicability to the study of cyber crime.

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

Assessment Tasks

Name	Weighting	Hurdle	Due
Participation/ engagement	10%	No	Weekly
Cyber Crime Case Study	30%	No	Week 6
Major essay	60%	No	Week 11

Participation/ engagement

Due: **Weekly**
Weighting: **10%**

This will encourage students to engage critically in both classroom and online discussions. A variety of different activities will occur each week and students should be prepared to fully participate in these activities. This will include an online discussion for external students, and weekly seminar participation and attendance only for internal students.

A detailed marking matrix is available to all enrolled students on the unit iLearn site.

On successful completion you will be able to:
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- 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.
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- Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

Cyber Crime Case Study

Due: **Week 6**
Weighting: **30%**

The 2,000 word essay allows students to explore a cyber crime case study from a given list. If students are not writing an essay from the given cases, you must seek approval from your instructor on your case study in the first instance. Marking criteria includes evaluation of understanding of key concepts, written expression, referencing, structure and layout.

A detailed marking matrix is available to all enrolled students on the unit iLearn site.

On successful completion you will be able to:
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Major essay

Due: **Week 11**
Weighting: **60%**

The essay length is 3000 words. Students will choose a topic from a list of given topics, if students are not writing an essay from the given topics, you must seek approval from your instructor on your essay question in the first instance. The essay will show the student's knowledge of theories and practice and their ability to critically evaluate the chosen topic.

A detailed marking matrix is available to all enrolled students on the unit iLearn site.

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

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

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/

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 Disruptions Policy. Extensions will not in normal circumstances be granted by unit conveners or tutors, but must be lodged through Disruption to Study: http://www.students.mq.edu.au/student_admin/manage_your_study_program/disruption_to_studies/.

LATE SUBMISSION OF ASSESSMENT TASKS

- If an assignment is submitted late, 5% of the available mark will be deducted for each day (including weekends) the paper is late.

- For example, if a paper is worth 20 marks, 1 mark will be deducted from the grade given for each day that it is late (i.e. a student given 15/20 who submitted 4 days late will lose 4 marks = 11/20).

- The same principle applies if an extension is granted and the assignment is submitted later than the amended date.

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 x 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 SEMESTER

- 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.

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.

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.)*

Undergraduate 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

Results

Results shown in *iLearn*, 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.

Student Support

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

Learning Skills

Learning Skills (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 Services and 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.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

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.

Graduate Capabilities

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

- 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.
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- Demonstrate knowledge of relevant theories, cross disciplinary approaches (criminology and information security), and the applicability to the study of cyber crime.
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Assessment tasks

- Participation/ engagement
- Cyber Crime Case Study
- Major essay

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

- 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.
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Assessment tasks

- Participation/ engagement

- Cyber Crime Case Study
- Major essay

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- 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.
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Assessment tasks

- Participation/ engagement
- Cyber Crime Case Study
- Major essay

PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes

- 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.

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- Cyber Crime Case Study
- Major essay

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcomes

- 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.
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- Major essay

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

Learning outcomes

- 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 knowledge of relevant theories, cross disciplinary approaches (criminology and information security), and the applicability to the study of cyber crime.
- Demonstrate a comprehensive understanding of strategies and steps to investigate digital evidence.

Assessment tasks

- Participation/ engagement
- Cyber Crime Case Study
- Major essay