



PICX8964

Advanced Leadership and Simulation in Cyber Security

Session 2, Fully online/virtual 2020

Department of Security Studies and Criminology

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Notice

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group learning activities on campus for the second half-year, while keeping an online version available for those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face and online activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

Yves-Heng Lim

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Credit points

10

Prerequisites

Admission to M CyberSecAnalysis and (PICX8951 or PICX951 or PICX8952 or PICX952 or PICX8953 or PICX953 or PICX8955 or PICX955)

Corequisites

(PICX8080 or PICX808) and (PICX8040 or PICX840) and (PICX8048 or PICX848) and (PICX8049 or PICX849)

Co-badged status

Unit description

The unit provides students with a deep understanding of the various dimensions, ideas and practices relating to successful leadership at the individual, group and organisational levels. Students will explore the cutting-edge academic research on leadership as well as learn practical skills directly from senior leaders in a range of fields. Skills developed in this unit will include the ability to build a strategic vision, to develop a sense of responsibility, to enhance group cohesion, and to influence and motivate a team to achieve a desirable end state. Students will also gain an understanding of how leadership differs across cultures, particularly between Eastern and Western societies. In the second half of the semester, this unit provides students with an opportunity to apply the knowledge they have gained throughout their program of study to a real world crisis. By participating in a dynamic simulation, students will be required to solve problems and find solutions to real world challenges. Students will be assigned to an executive team that includes students with different skill sets and knowledge. These executive teams may include strategists, intelligence analysts, criminologists, counter terrorism experts, and cyber security analysts. Students enrolled in Simulation and leadership in Cyber Security will perform the role of the cyber security analyst.

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 understanding of the multiple dimensions of leadership in a complex political-strategic context.

ULO2: Analyse the role of leaders in developing and implementing strategy and be able to apply leadership concepts in the context of a dynamic political-strategic environment.

ULO3: Demonstrate understanding of decision-making, bargaining situations and group dynamics in a political-strategic context.

ULO4: Use tools and software commonly used to attack/protect networks in complex and evolving real-world situations.

ULO5: Communicate disciplinary knowledge to professional audiences.

Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Small simulation</u>	20%	No	Week 3 and 5
<u>Quiz</u>	20%	No	Week 7
<u>Ministerial Brief</u>	30%	No	Week 12
<u>Main Simulation</u>	30%	No	Week 13-14

Small simulation

Assessment Type ¹: Simulation/role play

Indicative Time on Task ²: 20 hours

Due: **Week 3 and 5**

Weighting: **20%**

Small simulation conducted in the first half of the semester

On successful completion you will be able to:

- Demonstrate understanding of decision-making, bargaining situations and group dynamics in a political-strategic context.
- Communicate disciplinary knowledge to professional audiences.

Quiz

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **Week 7**

Weighting: **20%**

Quizzes covering subject matter week 1-7.

On successful completion you will be able to:

- Demonstrate understanding of the multiple dimensions of leadership in a complex political-strategic context.
- Analyse the role of leaders in developing and implementing strategy and be able to apply leadership concepts in the context of a dynamic political-strategic environment.

Ministerial Brief

Assessment Type ¹: Professional writing

Indicative Time on Task ²: 51 hours

Due: **Week 12**

Weighting: **30%**

Working as part of a team tasked with writing a ministerial brief/memo on a security and criminology-related scenario, write a cyber threat assessment; and contribute to the executive summary and recommendations in that assessment.

On successful completion you will be able to:

- Use tools and software commonly used to attack/protect networks in complex and evolving real-world situations.
- Communicate disciplinary knowledge to professional audiences.

Main Simulation

Assessment Type ¹: Simulation/role play

Indicative Time on Task ²: 15 hours

Due: **Week 13-14**

Weighting: **30%**

Each student team will be presented with a simulation scenario. Each team will be required to provide policy recommendations to the control group (convenors) as the situation unfolds over a number of simulation moves or turns

On successful completion you will be able to:

- Demonstrate understanding of decision-making, bargaining situations and group dynamics in a political-strategic context.
 - Use tools and software commonly used to attack/protect networks in complex and evolving real-world situations.
 - Communicate disciplinary knowledge to professional audiences.
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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/

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 SUBMISSION OF ASSESSMENT TASKS

Unless a Special Consideration request has been submitted and approved, (a) **a penalty for lateness will apply** – two (2) marks out of 100 will be deducted per day for assignments submitted after the due date – and (b) **no assignment will be accepted seven (7) days (incl. weekends) after the original submission deadline**. No late submissions will be accepted for timed assessments – e.g. quizzes, online tests.

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 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) (<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) (<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](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://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 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

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 help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [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

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

If you are a Global MBA student contact globalmba.support@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.