School of
Engineering and Computer Science
Te Kura Mātai Pūkaha, Pūrorohiko

Prescription

This course addresses how the behaviour and values of people as individuals or within an organisation affects cyber security threats and mitigation strategies. Topics include social engineering, cultural considerations, the insider threat, security usability, and risk management.

Course learning objectives

Students who pass this course will be able to:

1. Describe different types of social engineering attacks on privacy and anonymity and identify potential mitigation strategies for these information security risks based upon awareness, training, education and operational security.
2. Explain the role of international and local security standards to the development and evaluation of cyber systems.
3. Demonstrate an understanding of the relationship between individual and social psychology as well as social and cultural norms on the security usability by applying this knowledge to the evaluation of the security of a given system.
4. Compare and contrast different approaches to risk management in relation to cyber security and discuss the strengths and weaknesses of common risk management frameworks, such as Octave, NIST CSF, COBIT, ITIL as well as the role of international and local standards.

Withdrawal from Course

Withdrawal dates and process:
https://www.wgtn.ac.nz/students/study/course-additions-withdrawals

Lecturers

Masood Mansoori (Coordinator)

masood.mansoori@vuw.ac.nz 04 4639792

410 Cotton, Kelburn

Lisa Patterson

lisa.patterson@vuw.ac.nz

Teaching Format

This course will be offered in-person and online. For students in Wellington, there will be a combination of in-person components and web/internet based resources. It will also be possible to take the course entirely online for those who cannot attend on campus, with all the components provided in-person also made available online.

- Weekly in-person and recorded lectures each week.
- Fortnightly in-person and online tutorial sessions (Maximum of 4 tutorial sessions throughout the course). Session allocation will be done through myAllocator.
- There will be multiple helpdesks conducted in-person and over Zoom throughout the trimester depending on demand. Helpdesk sessions will be announced through Email and on the course web site
- Office hours will be set and announced accordingly.

Student feedback

This is the first time we have run the course so there is no feedback to report upon.

Dates (trimester, teaching & break dates)

- Teaching: 13 July 2020 - 18 October 2020
- Break: 17 August 2020 - 30 August 2020
- Exam period: 19 October 2020 - 25 October 2020

Class Times and Room Numbers

13 July 2020 - 16 August 2020

- **Monday** 13:10 - 14:00 – 306, 77 Fairlie Tce, Kelburn

31 August 2020 - 18 October 2020

- **Monday** 13:10 - 14:00 – 306, 77 Fairlie Tce, Kelburn

Other Classes

Tutorial Times and Room Numbers:

- In person: Thursdays - 12:10 - 13:00 - CO139 (max 30 people)
- Over Zoom: Thursdays - 14:10 - 15:00

Students must sign up in myAllocator for a regular one-hour tutorial sessions.

Set Texts and Recommended Readings

Required

"**Management of Information Security**", 6th edition by Michael E. Whitman and Herbert J. Mattord, ISBN: 9781337405713 is mainly used throughout the course and includes most of the topics covered in this course. Additional notes are provided before/after each lecture session accordingly.
There are electronic and hardcopies of the book available at VUW library. Students are however encouraged to purchase a copy of their own to avoid the library's potential access restrictions.

- "**Management of Information Security**", 6th edition by Michael E. Whitman and Herbert J. Mattord, ISBN: 9781337405713

Mandatory Course Requirements

In addition to achieving an overall pass mark of at least 50%, students must:

- Attend and submit at least two of the four tasks assigned in the tutorial sessions over the duration of the course.
- Make a reasonable attempt at all assignments.

If you believe that exceptional circumstances may prevent you from meeting the mandatory course requirements, contact the Course Coordinator for advice as soon as possible.

Assessment

There are three major assessments which will apply the theory learnt in the lectures. The final assessment includes an oral presentation component.

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
Assessment 1 - Risk management case study	Week 5	CLO: 1,2	30%
Assessment 2 - Incidence response, D.R. and B.C. Case Study	Week 9	CLO: 1,2,3	30%
Assessment 3 - Group project and oral presentation	Week 12	CLO: 2,3,4	30%
Tutorial/Workshop activities and hand-ins - 4x2.5%	Week 2-11	CLO: 1,2,3,4	10%

Penalties

Late submissions will result in 10% deduction of the total assessment mark per day late. Late submissions will not be accepted more than five days after the submission due date.

Extensions

Individual extensions will only be granted in exceptional personal circumstances, and should be approved by the course coordinator before the deadline. Documentation (eg, medical certificate) may be required.

Submission & Return

All work is submitted through the ECS submission system, accessible through the course web pages. Marks and comments will be returned through the ECS marking system, also available through the course web pages.

Marking Criteria

High-level marking criteria will be announced with each assessment.

Group Work

The final assessment in CYBR373 is made in the context of group work and involves an oral presentation

by the group members. Students will be marked individually and as part of a group.

Workload

The total workload for CYBR373 is 150 hours. In order to maintain satisfactory progress in this course, you should plan to spend an average of 10 hours per week on this course. An approximate breakdown for these hours would be:

- Lectures and tutorial sessions: 2 hours per week
- Consolidating lectured material, through readings, completion of exercises, worksheets: 4 hours per week
- Assignments: 4 hours per week

Teaching Plan

See: https://ecs.wgtn.ac.nz/Courses/CYBR373_2020T2/LectureSchedule

Communication of Additional Information

All online material for this course can be accessed at https://ecs.wgtn.ac.nz/Courses/CYBR373_2020T2/.

Links to General Course Information

- Academic Integrity and Plagiarism: https://www.wgtn.ac.nz/students/study/exams/integrity-plagiarism
- Academic Progress: https://www.wgtn.ac.nz/students/study/progress/academic-progess (including restrictions and non-engagement)
- Dates and deadlines: https://www.wgtn.ac.nz/students/study/dates
- Grades: https://www.wgtn.ac.nz/students/study/progress/grades
- Special passes: Refer to the Assessment Handbook, at https://www.wgtn.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf
- Statutes and policies, e.g. Student Conduct Statute: https://www.wgtn.ac.nz/about/governance/strategy
- Student support: https://www.wgtn.ac.nz/students/support
- Students with disabilities: https://www.wgtn.ac.nz/st_services/disability/
- Student Charter: https://www.wgtn.ac.nz/learning-teaching/learning-partnerships/student-charter
- Terms and Conditions: https://www.wgtn.ac.nz/study/apply-enrol/terms-conditions/student-contract
- Turnitin: http://www.cad.vuw.ac.nz/wiki/index.php/Turnitin
- University structure: https://www.wgtn.ac.nz/about/governance/structure
- VUWSA: http://www.vuwsa.org.nz

Offering CRN: 32079

Points: 15
Prerequisites: CYBR 371
Duration: 13 July 2020 - 25 October 2020
Starts: Trimester 2
Campus: Kelburn