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. 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.

2. 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.

3. Explain the role of international and local security standards to the development and evaluation of cyber systems.

4. 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.

Course content

2022: The course is primarily offered in-person, but there may be components such as tests, tutorials, presentations and marking sessions that require in-person attendance. There will be remote alternatives for all the components of the course, but these are only available to students studying from outside the Wellington region. The remote option for tests (if any) will use a Zoom-based system for online supervision.

Students taking this course remotely must have access to a computer with camera and microphone and a reliable high speed internet connection that will support real-time video plus audio connections and screen sharing. Unfortunately, an Android or IOS tablet will not be sufficient for the course but most modern Windows, Macintosh, or Unix laptops or desktop computers will be adequate and sufficient to support the programming and/or run the applications required by the course.

Withdrawal from Course

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

Lecturers

Dr Masood Mansoori (Coordinator)

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CO 130 Cotton Building (All Blocks), Gate 7, Kelburn Parade, Kelburn

Lisa Patterson

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CO 127 Cotton Building (All Blocks), Gate 7, Kelburn Parade, Kelburn

Teaching Format

The course is primarily offered in-person, but students have the option to complete and submit **most** of the course components and assessments remotely. All lectures are automatically recorded and can be accessed through Blackboard. Tutorial sessions are however **not** recorded. Students are therefore required to sign up and join the tutorial sessions in person or over the Zoom on the date/times specified. Students must have a zoom account and be able to use Zoom software. In-person tutorial sessions are strongly advised and encouraged as all tutorial sessions are group-based discussions and activities.

Students choosing to take the course remotely must have access to a computer with a camera, a microphone and a reliable high speed internet connection that will support real-time video/audio and screen sharing. A mobile phone connection is not considered sufficient.

Assessment 3 will involve a group presentation. Students are expected to be physically available on the day of the group presentation (Week 2 or 3 of the assessment period) and present their part accordingly. If a student is not able to be physically present due to compelling reasons (e.g. being abroad); a remote option can be arranged. Students who will need to use the remote option for **assessment three presentations** must contact the course coordinator in the first two weeks of the trimester to get permission and make arrangements.

The teaching components of the course are:

- Weekly in-person (and recorded) lectures.
- 6 tutorial sessions throughout the course; 5 of which are exercise-based and are marked. Please see "Other Classes" for tutorial sessions schedule
- Students can sign up for a specific tutorial session day/time which suits them best. Tutorial session allocation will be done through myAllocator.
- There might be helpdesk sessions for major assignments conducted over Zoom throughout the trimester, depending on demand. Helpdesk sessions will be announced through Email and on the course website.

Student feedback

Student feedback on University courses may be found at:
www.cad.vuw.ac.nz/feedback/feedback_display.php

Dates (trimester, teaching & break dates)

- Teaching: 11 July 2022 - 14 October 2022
- Break: 22 August 2022 - 04 September 2022
- Study period: 17 October 2022 - 20 October 2022
- Exam period: 21 October 2022 - 12 November 2022

Class Times and Room Numbers

11 July 2022 - 21 August 2022

- **Tuesday** 11:00 - 11:50 – LT1, Te Toki a Rata, Kelburn

05 September 2022 - 16 October 2022
- **Tuesday** 11:00 - 11:50 – LT1, Te Toki a Rata, Kelburn

Other Classes

Tutorial Sessions Schedule:
- Week 1
- Week 3
- Week 5
- Week 7
- Week 9

Tutorial Session Times and Room Numbers:
- In-person: Wednesdays - 10:00 - 10:50 - CO139 (max 30 people)
- In-person: Wednesdays - 11:00 - 11:50 - CO139 (max 30 people)
- Over Zoom: Fridays - 3:00 - 04:00 (Unlimited)

Students must sign up in myAllocator for the regular in-person 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 may wish 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 three of the five exercises assigned in the tutorial sessions over the duration of the course.
- Make a reasonable attempt at all major assessments (i.e. Assessment 1, 2 and 3).

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 also includes an oral presentation component.

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
Assessment 1 - Risk assessment case study	Week 6	CLO: 1,2	30%
Assessment 2 - Incident response and D.R. case study	Week 8	CLO: 1,2,3	30%
Assessment 3 - Group project and presentation	During Examination weeks (To be announced)	CLO: 3,4	28%
Tutorial/Workshop activities and hand-ins (5)	Two weeks after announcement	CLO: 1,2,3,4	12%

Penalties

Late submissions will result in 10% deduction of the total assessment mark per day late.

Extensions

Each student will have three "late days" which you may choose to use for any assignment or assignments during the course. There will be no penalty applied for these late days. You do not need to apply for these, instead any late days you have left will be automatically applied to assignments that you submit late. 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) will 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 page.

Marking Criteria

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

Group Work

The final assessment in CYBR373 is a group assessment and includes a group presentation by the group members. Students will be marked on their individual part of the group presentation as well as the overall presentation of the 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_2022T2/LectureSchedule

Communication of Additional Information

All online material for this course can be accessed at https://ecs.wgtn.ac.nz/Courses/CYBR373_2022T2/.

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: 11 July 2022 - 13 November 2022
Starts: Trimester 2
Campus: Kelburn