Course program and reading list
Semester 2 Year 2022

School: Lauder School of Government, Diplomacy & Strategy M.A

Introduction to cyber security

Lecturer:
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Teaching Assistant:
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Course No.: 24281  Course Type: Lecture  Weekly Hours: 2  Credit: 2

Course Requirements: Final Exam  Group Code: 222242811  Language: English

Prerequisites

Prerequisite:
24282 - Cyber security

Course Description

Course sessions will focus on (each lecture is 2 academic hours):

- Introduction to the digital transformation (1 lectures)
- Introduction to cyber-attacks (1 lectures)
- Introduction to Information security - terminology (2 lectures)
- Introduction to Information security - concepts (2 lectures)
- Introduction to information technology (3 lectures)
• Introduction to cryptography (1 lecture)
• Using cryptography to ensure data confidentiality (1 lecture)
• Using cryptography to data integrity (1 lecture)
• Digital identity and Digital certificates (1 lecture)

Course Goals
The course will provide the students understanding of:
• Introduction to the digital transformation and to cyber information technology
• Introduction to information security in the cyber space
• Information security terminology and concepts
• The technologies, products, policies and procedures that should be used to secure operations in the cyber space.

Grading
The course final grade will be composed from:
• final exam (at the end of the semester) - 60%
• quizzes (during the semester) - 20%
• home assignments / class presentations (during the semester) - 20%

Learning Outcomes
At the end of the course the student should be able to:
• Describe the information security properties of an information system in the cyber era that should be protected
• Describe the information security technologies and products that can be used to mitigate cyber attacks
• Delineate how to defend against the different cyber attacks using the relevant technologies and products

Lecturer Office Hours
Friday between 13:00 to 14:00 (after class)
You can contact me by email dmovshovitz@gmail.com
Tutor Office Hours
N/A

Additional Notes

Classes will consist of lectures and discussions.

Students are required to attend all classes and any assigned supplementary activities related to the course.

Students are required to attend all the quizzes and submit all the home assignments (there will be several home assignments).

Reading List

There is no textbook for the course as it will cover many different subjects.

The presentations used in the course lectures will be detailed and should be used as a basis for learning the topics learned in the course.

The lectures presentations will be uploaded to the course web site before each lecture.

In addition, additional research papers and other relevant material will be upload to the course web site, and the students are asked to read these papers as preparation to the lectures.