Basic Course Information

Semester:	**FA22**	Instructor Name:	**Bijan Houshiar**
Course Title & #:	CIS 161 INTRO TO CYBERSECURITY: ETH HK	Email:	**Bijan.houshiar@imperial.edu**
CRN #:	10	Webpage (optional):	**Cisco.netacad.com**
Classroom:	**Online**	Office #:	**Zoom**
Class Dates:	**8/15/2022-12/10/2022**	Office Hours:	**by appointment**
Class Days:		Office Phone #:	
Class Times:		Emergency Contact:	
Units:	3	Class Format:	Online asynchronous

Course Description

This course introduces the network security specialist to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students will receive course content information through a variety of methods:
lecture and demonstration of hacking tools will be used in addition to a virtual environment.
Students will experience a hands-on practical approach to penetration testing measures and
ethical hacking.(C-ID: ITIS 164) (CSU

Course Prerequisite(s) and/or Corequisite(s)

None

Student Learning Outcomes

Ethical Hacking Overview

TCP/IP Concepts Review

Network and Computer Attacks

Footprinting and Social Engineering

Port Scanning

Operating System Vulnerabilities

Cryptography

Protecting Networks with Security Devices

Course Objectives

This course objective is to become familiar with cybersecurity and hacking tools

Textbooks & Other Resources or Links

Students will be enrolled in https://www.netacad.com/ which has the textbook online. This online book will be available for the entire term. Students are not required to purchase textbooks.

Course Requirements and Instructional Methods

To use course materials outside class/lab Internet access and a Windows computer are required.

Course Grading Based on Course Objectives

Quiz/Lab Activities ……………………………………………………… up to 50 points

Midterm exam ……………………………………………………. 50 Points

Final Exam …………………………………………………………….. 50 Points

Discussion …………………………………………………………….. 50 Points

Grades:

A = 90 - 100 %

B = 80 - 89 %

C = 70 - 79 %

D = 60 - 69 %

F = below 60%

Course Policies

There will 25% deduction for one week late. Assignments passed due by more than one week will not be accepted. Instructor may revise if there is a proper documentation.

No late work will be accepted after term ends. Discussion has no makeup.

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit http://www.imperial.edu/studentresources or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

Weekly agenda and due dates are listed on college course Canvas.