Basic Course Information

Semester:	**Spring 2023**	Instructor Name:	**Zambrano, William**
Course # and Title:	**CIS 161 Intro to Cybersecurity: Ethical Hacking**	Email:	**William.zambrano@imperial.edu**
CRN #:	**20898**	Webpage (optional):	
Classroom:	**901**	Office #:	**901, Email, or Zoom**
Class Dates:	**2/13/2023 – 6/09/2023**	Office Hours:	**M: 4pm-6pm/TR: 10am&1-2pm, Zoom, and Email.** ***Subject to change.**
Class Days:	**TR**	Office Phone #:	**Use Email**
Class Times:	11:20am-12:45pm	Emergency Contact:	**Department Secretary 760-355-6361**
Units:	**3**	Class Format:	In-Person

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. (ITIS 164) (CSU)

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

N/A

Student Learning Outcomes

Upon satisfactory completion of the course, students will be able to:

1. Describe the tools and methods a "hacker" uses to break into a computer or network.
2. Defend a computer and a LAN against a variety of different types of security attacks using a number of hands-on techniques.
3. Practice and use safe techniques on the World Wide Web.

Course Objectives

1. Describe the tools and methods a "hacker" uses to break into a computer or network.
2. Defend a computer and a LAN against a variety of different types of security attacks using a number of hands-on techniques.
3. Practice and use safe techniques on the World Wide Web.

Textbooks & Other Resources or Links

Matt Walker. CEH Certified Ethical Hacker All-in-One Exam Guide, Fifth Edition. ISBN: 9781264269945

Course Requirements and Instructional Methods

Class Activity
Hands-On Labs
Quizzes, Mid-Term/Final Exam(s)
Written Assignments

Course Grading Based on Course Objectives

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	0-599

Points possible	Assignment/Assessment	Details
100	Discussions	10 points each X 10 discussions
100	Assignments	10 points each X 10 assignments
200	Quizzes	20 points each X 10 assignments
600	Exams	150 points each X 4 exams

Course Policies

Refer to the college catalog for attendance and academic honesty policies.

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

Week	Activity, Assignment, and/or Topic	Due Dates/Tests
1	Syllabus & Introduction, Weekly Discussion and Assignment.	February 13, 2023
2	Syllabus & Introduction Lecture, Weekly Discussion and Assignment.	Weekly Online Submissions
3	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
4	Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
5	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
6	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
7	Lecture, Hands-On Lab,	Weekly Online Submissions
8	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
9	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
10	Lecture, Hands-On Lab,	Weekly Online Submissions
11	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
12	**Course Objective** Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
13	Lecture, Hands-On Lab	
14	Hands-On Lab	
15	Hands-On Lab	
16	Hands-On Lab	
17	**Final Exam**	**Last Week: June 5-9, 2023**

Subject to change without prior notice