Syllabus

CSC 273 Ethical Hacking

General Information

Date
July 31st, 2018

Author
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Department
Computing Sciences

Course Prefix
CSC

Course Number
273

Course Title
Ethical Hacking

Course Information

Credit Hours
3

Lecture Contact Hours
3

Lab Contact Hours
0

Other Contact Hours

Catalog Description
This course provides an in-depth look at network security concepts and techniques. It will adopt a practical, hands-on approach when examining networking security techniques. Along with examining different network strategies, the student will explore the advancement of network implementation as well as exploring problem solving strategies necessary in the field of info security.

Key Assessment
This course does not contain a Key Assessment for any programs

Prerequisites
CSC 260

Co-requisites

August 7th, 2018 11:08 am
First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category

None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Vitality
Inquiry
Perseverance
Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Find vulnerabilities and recommend mitigation techniques for systems and networks
2. Defend systems and networks from attacks
3. Implement safe cybersecurity practices

Outline of Topics Covered

I. Ethical Hacking Overview
II. TCP/IP Concepts Review
III. Network and Computer Attacks
IV. Footprinting and Social Engineering
V. Port Scanning
VI. Enumeration
VII. Programming for Security Professionals

VIII. Microsoft Operating System Vulnerabilities

IX. Linux Operating System Vulnerabilities

X. Hacking Web Servers

XI. Hacking Wireless Networks

XII. Cryptography

XIII. Protecting Networks with Security Devices