Syllabus

CSC 273 Ethical Hacking

General Information

Date
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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
0

Catalog Description
This course features extensive hands-on activities for current ethical hacking/penetration testing techniques used in industry today. Topics include encryption, hashing, man-in-the-middle attacks, password cracking, spoofing, reconnaissance, port scanning, exploiting, covering tracks, Google Hacking, social engineering, and more. Various tools and utilities will be used throughout the course.

Prerequisites
CSC 260

Co-requisites
None

Grading Scheme
Letter

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

None

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

Program Affiliation

This course is required as a core program course in the following program

AAS Computer Information Technology

Outline of Topics Covered

1. Encryption and Hashing
2. Man-In-The-Middle Attacks
3. Password Cracking
4. Spoofing
5. Reconnaissance
6. Port Scanning
7. Exploiting
8. Covering Tracks
9. Google Hacking
10. Social Engineering