General Information

Date
11/03/2016

Department
Computing Sciences

Course Prefix:
CSC

Course Number:
273

Course Title:
Ethical Hacking

Course Information

Credit Hours
3

Lecture Contact Hours
3

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.

Prerequisites
CSC 260

Grading Scheme
Letter Grade

FLCC Values

College Learning Outcomes Addressed by the Course

Inquiry
Interconnectedness
Vitality
Perseverance

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(s)

AAS Information Technology

Outline of Topics Covered

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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