

Common Course Outline
DCOM 215
Ethical Hacking and Systems Defense
4 Semester Hours

The Community College of Baltimore County

Description

DCOM 215 – 4 Credits – Ethical Hacking and Systems Defense is the capstone course that combines an ethical hacking methodology with the hands-on application of security tools to better help students secure their systems. Students are introduced to common countermeasures that effectively reduce and/or mitigate attacks. The class is designed to help students prepare for professional careers in the information and communication technology (ICT) field and the EC-Council Certified Ethical Hacker (CEH) certification exam.

Prerequisite: consent of program coordinator

Overall Course Objectives

Upon completion of this course the student will be able to:

1. utilize various information security tools given different target systems in different environments;
2. discuss how the tools interrelate with each other in an overall penetration testing process;
3. implement countermeasures for various types of attacks;
4. use a common hacking methodology to carry out a penetration test;
5. analyze how penetration testing and ethical hacking fit into a comprehensive enterprise information security program; and
6. demonstrate ethical behavior appropriate to security-related technologies.

Major Topics

- I. Ethical hacking
- II. Penetration testing professional certifications
- III. Online/print resources
- IV. Footprinting
- V. Scanning
- VI. Enumeration
- VII. Exploitation
- VIII. Post-exploitation

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

Minimum of six laboratory projects

Minimum of three exams

Writing: The individual faculty member will determine specific writing assignments, such as an Acceptable Usage Policy.

Other Course Information

This course is a program requirement for the Network Technology Security degree.

This course is taught in a computerized environment.

Date Revised: 05/17/09