

**Common Course Outline**  
**DCOM 211**  
**Introduction to Firewalls**  
**3 Credits**

**Community College of Baltimore County**

**Description**

**DCOM 211 – Introduction to Firewalls** provides the information and skills necessary for students to design, implement, and maintain firewall systems. This course is designed for students who plan to evaluate, implement, and administer network-based firewalls.

**3 Credits**

**Prerequisite:** DCOM 218

**Overall Course Objectives**

Upon completion of this course students will be able to:

1. analyze firewall logs;
2. develop a firewall security policy;
3. create and maintain a firewall change log;
4. write firewall rule sets based on firewall security policy;
5. implement various Network Address Translations (NAT) technologies;
6. evaluate, implement, and administer firewall systems;
7. demonstrate the administration and ongoing support required for securing an enterprise network using a firewall;
8. create network drawings;
9. utilize network diagrams; and
10. describe ethical behavior appropriate to security-related technologies.

**Major Topics**

- I. Overview of firewall platforms
- II. Firewall environments
- III. Firewall security policy and implementation
- IV. Troubleshooting fundamentals
- V. Firewall implementation, administration, and maintenance
- VI. Firewall log analysis
- VII. Firewall auditing

### **Course Requirements**

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

### **Grading/exams**

- Minimum of six laboratory projects
- Minimum of six quizzes
- Minimum of two exams

Written Assignments: Students are required to use appropriate academic resources.

### **Other Course Information**

This course is a program requirement for the Information Systems Security degree.

Date Revised: 02/05/2019