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.

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