

Common Course Outline
DCOM 203
Network Infrastructure
4 Semester Hours

The Community College of Baltimore County

Description

DCOM 203 – 4 Credits – Network Infrastructure enables the student to install and configure a secure network infrastructure and to insure connectivity between network hosts. Using a hands-on approach, students will load network protocols, configure and test TCP/IP, install and configure DNS and DHCP, enable remote access, configure Windows update, and troubleshoot connectivity problems. This course helps students prepare for the Microsoft certification exam.

4 credits: 4 lecture hours per week

Co-requisite: DCOM 202 or consent of the program coordinator

Overall Course Objectives

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

1. configure IP addressing;
2. install and configure DNS;
3. install and configure DHCP;
4. enable remote access;
5. install and configure file and print services;
6. configure Windows update;
7. secure communications between computers;
8. install and configure routing; and
9. troubleshoot connectivity problems.

Major Topics

- I. Networking protocols
- II. IP addressing
- III. Sub-netting
- IV. DHCP
- V. DNS
- VI. Remote access
- VII. File and print services
- VIII. Windows update
- IX. Routing
- X. Encryption
- XI. Troubleshooting

Course Requirements

Specific assignments and procedures for evaluating students' performance in the class will be determined by the instructor and will be described in the individual class syllabus.

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

- Minimum of three exams

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

This course is a program requirement for the Associate's Degree in Network Technology.

Date Revised: 3/1/10