

Course Outline
DCOM 234
Nortel IV: Unified Network Management & Practicum
4 Semester Hours

The Community College of Baltimore County

Description

Nortel IV - Unified Network Management & Practicum

The fourth of four courses, prepares students for the Nortel NetKnowledge certification exam, continues the study of network management and maintenance, and also pulls together the knowledge acquired in all previous Nortel courses.

Prerequisite: DCOM 233

Overall Course Objectives

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

- A. Demonstrate a knowledge of network management, including SNMP, bootp/TFTP process
- B. Demonstrate a knowledge of network management tools and functions
- C. Demonstrate a knowledge of Ethernet and Token Ring Network designs
- D. Demonstrate a knowledge of VPNs
- E. Demonstrate a knowledge of Voice Over IP
- F. Demonstrate a competency with network maintenance, commonly used tools to resolve network equipment problems, unified networks and how they are configured in the local area.

Major Topics

- A. Network Management
 - 1. SNMP
 - 2. Boot/TFTP process
 - 3. NMM
 - 4. Hardware management options
- B. Network Designs
 - 1. Ethernet
 - 2. Token Ring
- C. VPNs
- D. Network Maintenance Issues
- E. Unified Networks
- F. Troubleshooting Problematic Networks

Course Requirements

Grading/exams: Procedures for grading will be determined by the individual faculty member; there will be a *minimum* of 10 graded assignments. A final examination is required. Other graded assignments may come from any combination of the following categories: quizzes, hourly exams, a midterm exam, group projects, individual reports/presentations, or lab projects.

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

Other Course Information

This course is taught in a computerized environment.

This course is the fourth course in a series of four (4) in the Nortel NetKnowledge concentration.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

Date Revised: 6/7/00