

Course Outline
DCOM 233
Nortel III: Switching
4 Semester Hours

The Community College of Baltimore County

Description

Nortel III - Switching

The third of four courses, prepares students for the Nortel NetKnowledge certification exam, introduces students to layer-three switching and to Nortel's Optivity network-management software.

Prerequisite: DCOM 232

Overall Course Objectives

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

- A. Demonstrate a knowledge of frame and cell-switching
- B. Demonstrate a knowledge of cut-through and store and forward
- C. Demonstrate a knowledge of frame switching concepts such as VLAN types 801.1Q specification, etc.
- D. Demonstrate a knowledge of cell switching concepts such as PVC and SVC - LECs, LEC, LES, and BUS
- E. Demonstrate a knowledge of VLANs
- F. Demonstrate a knowledge of ATM
- G. Demonstrate a competency with Baystack Switches (350 and 450), Accelar Routing Switch, Passport Product, Centillion 100 and 1000 Series
- H. Demonstrate a competency with basic switching vocabulary.

Major Topics

- A. Frame and Cell Switching
 - 1. Frame Switching
 - 2. Cell Switching
- B. Configuring Baystack 350 Switches
- C. VLANs
 - 1. VLANs
 - 2. Implementation
- D. ATM
- E. Accelar Routing Switch
 - 1. Product Overview
 - 2. Configuration and Management

- F. Passport Products
 - 1. Product Familiarization
 - 2. Configuration and Management
- G. Centillion 100 and 1000 Series
 - 1. Product Familiarization
 - 2. Configuration and Management

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 third 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