Course Prefix and Number: ITN 157  
Credits: 4

Course Title: WAN Technologies -- Cisco

Course Description (including lecture hours, lab hours, total contacts)

Concentrates on an introduction to Wide Area Networking (WANs). Includes WAN design, LAPB, Frame Relay, ISDN, HDLC, and PPP. Lecture 4 hours per week.

General Course Purpose

Prepares students to implement the appropriate WAN technology to provide integrated services in a networked environment. Can lead to industry certification.

Course Prerequisites/Corequisites (Entry-level competencies required for enrollment)

ITN 156 Basic Switching and Routing -- Cisco

Course Objectives (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- Integrate WAN technology to provide integrated services
- Implement PPP serial communication
- Employ Frame Relay Technology
- Describe the common security threats to networks
- Implement, verify, and troubleshoot ACLs
- Describe how to use VPN technology
- Implement IP addressing services
- Troubleshoot common networking issues

Major Topics to be Included

- Services in a WAN
- PPP
- Frame Relay
- Network Security
- Access Control Lists (ACLs)
- VPN Technologies
- Implementing IP Addressing
- Troubleshooting Networks

Effective Date of Course Content Summary (Month, Date Year): May, 2010