

The goal of this course is to assist the student in developing skills necessary to use protocols to maximize enterprise LAN and WAN performance. The course provides more advanced configurations of switching and routing protocols, configuration of access control lists, and basic implementation of WAN links. It also provides detailed troubleshooting guidance for LAN, WAN, and VLAN implementations. This course prepares the student with the skills required for entry-level Network Technician, Help Desk Technician and Computer Technician jobs. Hands-on labs will reinforce lectures.

Prerequisite: COPR 2282.

Offered: On demand.

COPR 2284 Cisco IV: Designing and Supporting Computer Networks (5-0-5)

CCNA4: Designing and Supporting Computer Networks is the last of four courses leading to the Cisco Certified Network Associate (CCNA) certification. The goal of this course is to assist the student in developing the skills necessary to design small Enterprise LANs and WANs. The course provides an introduction to collecting customer requirements, translating those requirements into equipment and protocol needs, and creating a network topology which addresses the needs of the customer. It will also familiarize the student with how to create and implement a design proposal for a customer. This course prepares the student with the skills required for entry-level Pre-Sales Support and entry-level Network Design jobs. In addition, the student will complete preparation for the CCNA exam. Hands-on labs will reinforce lectures.

Prerequisite: COPR 2283.

Offered: On demand.

COPR 2291 Fundamentals of UNIX (3-0-3)

Designed to provide students with an understanding of UNIX commands and filters and basic operating environment commands. Students learn the fundamental command-line features including file system navigation, file permissions, text editors, command shells and basic network use.

Prerequisite: COPR 2244 with a grade of C or better or permission of the instructor.

Offered: On demand.

COPR 2301 Maintaining a Windows Network Infrastructure (4-2-5)

Designed to provide students with the knowledge and skills necessary to successfully plan, implement, and troubleshoot a Microsoft server network infrastructure. The course focuses on forest and domain structure, Domain Name System (DNS), site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user, group, and computer account strategies.

Prerequisites: COPR 2246 with grade of C or better or permission of Division Dean.

Offered: On demand.

COPR 2303 Planning and Maintaining Windows Active Directory (4-2-5)

Provides students with the knowledge and skills to design and implement a Microsoft Active Directory directory services and network infrastructure for a Microsoft network environment.

Prerequisites: COPR 2246 with a grade of C or better or permission of Division Dean.

Offered: On demand.