Course Outcome Guide (COG)

Course:	CIS 218 – Planning a Network Infrastructure	Credits:	3	Instructor:	TBD
Course Description:	This course is for professionals who will be responsible for installing, configuring, managing, and supporting the primary networking services in the Microsoft Windows Server operating system. These core networking services include: Domain Name System (DNS) Windows Internet Naming Service (WINS) Routing and Remote Access Service (RRAS) Network security technologies				

Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
Active Directory Users Groups Profiles Group Types Access Issues Passwords Security Updates File Systems Network Printing File Compression Task Manager Backup	Install the current version of the Windows Network Operating System. Configure Domain Name System structure. Configure and setup Windows Internet Naming Services. Setup and configure routing and remote access services. Configure network security. Identify Active Directory Logical Components and Infrastructure Create and manage Organizational Units. Create and manage user accounts including user	• Participation • Case studies • Network Simulations • Individual and group projects • Individual/group projects and presentations • Completion of Chapter Assessments • Final Assessment • Skills-Based Assessment Course Feedback	On completion of this course the student should be able to design, install, configure and manage a workgroup or domain consisting of Microsoft Windows servers and workstations.	1. Assemble the components of a PC and install one or more operating sytems resulting in a functioning PC. 2. Identify major telecommunications media types, including coaxial cable, UTP and fiber optic cable. 3. Design a small or medium sized computer network including media types, end devices and interconnecting devices. 4. Design basic wide area networks and work with a number of WAN	1. Students will demonstrate effective communication skills. 2. Students will use reasoning skills to analyze and solve problems.

				encapsulations.
	profiles. Create and use groups to manage access to resources. Implement and manage file system access security. Implement advanced file system management techniques. Implement and manage network printing resources. Implement resource access auditing. Monitor system performance. Manage and Implement Backups and Disaster Recovery			5. Perform basic configuration on routers and Ethernet switches. 6. Perform basic tasks expected of a Network Administrator, including management of user accounts, shared resources and network security. 7. Work in a UNIX environment and successfully create and manage files. 8. Create a database, query a database, and ouput reports from a database in a database program. 9. Write a sample program in at least one programming language. 10. Effectively use the Internet for learning and tech support. 11. Have a basic understanding of TCP/IP.	