Course:	CIS 267 - Intermediate Netwo	orking I Credits: 3	Instructor:	Ken Quamme			
Course Description:	This course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning.						
	Prerequisites: Worki	ng at a Small-to-Medium Business	or ISP				
Concepts and			Intended Outcomes				
Issues	Process Skills	Assessment Tasks	Course	General Education or Program	Institutional		
 OSI Reference Model TCP/IP Reference Model Application Layer protocols Transport Layer Network Layer Link Layer and LANs Wireless LANs Multimedia Networking 	 Examine inputs, business drivers, and deliverables of the planning process. Understand practical issues such as information security, business requirements, IT architecture, cost justification, implementation, migration planning, and vendor selection. Manage data, voice, and video communications. Apply industry standard products to manage and control digital networks. 	 Participation Case studies Network Simulations Individual and group projects Individual/group projects an presentations Completion of Chapter Assessments Final Assessment Skills-Based Assessment Course Feedback 		ns media types, including coaxial cable, UTP and fiber optic cable. 3. Design a small or medium sized computer network including media types, end devices	1. Students will demonstrate effective communication skills. 2. Students will use reasoning skills to analyze and solve problems.		

 	,		,
		methodology	encapsulations.
		and the OSI	5. Perform basic
		model	configuration on
			routers and
			Ethernet switches.
			6. Perform basic
			tasks expected of
			a Network
			Administrator, inc
			luding
			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.
			ICF/IF.