



Division:	Business	Area:	Computer Information Systems
Course Number:	CIS 209	Course Name:	Network Concepts
Prerequisite:	CIS 130		
Corequisite:	None		
Hours Required:	Class: 45	Lab: 0	Credits: 3

Course Description/Purpose

This course provides students with the basic networking concepts needed as an Information Technology Professional. Topics include: networking technologies and topologies on a network, wireless networking, web-based networks, virus security, broadband/DSL, troubleshooting tools, cabling, switching technologies, equipment and technologies used in LANs and WANs. TCP/IP along with the OSI communication model will be discussed in detail. Aside from learning the technologies involved in networking, students will get to understand the daily tasks involved with managing and troubleshooting a network. Students will have a variety of hands-on and case project assignments that reinforces the concepts covered in each chapter.

Major Units

- Introduction to Networks
- Network Design
- Network Communications and Protocols
- Network Security
- Network Administration and Support
- Network Problems

Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments, and instructor observations.

Cognitive Each student will be expected to *Identify/Recognize...*

- the concepts pertaining to all of the major units

Performance Each student will be expected to *Demonstrate/Practice...*

- diagram different network topologies
- determine best communication solution for a given scenario
- understanding of LAN hardware
- understanding of WAN hardware
- understanding of internet technology
- creating a basic Network – Wired and Wireless

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