



Course Information

Division	Business
Contact Hours	45
Total Credits	3

Prerequisites

CIS 209 and CIS 130

Course Description

This course will cover concepts and functions of networks and related business technology. The course emphasizes the administration of client/server and peer-to-peer networks. The course includes a description of equipment, networking procedures, and protocols. It will also include installing, configuring, and troubleshooting a computer network. It then covers the essential concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, and security. The course will prepare students for selecting the best network design, hardware, and software for the application or environment.

This course is a required core course for students pursuing an:
AAS in Cybersecurity and Information Assurance

Course Outcomes

In order to evidence success in this course, the students will be able to:

1. Define a network
2. Describe the common elements in a network
3. Describe the different types of networks
4. Define networking standards and where to find them
5. Describe TCP/IP, IPv4, IPv6, DNS, and application layer protocols
6. Define network topologies and Ethernet Standards
7. Describe networking hardware
8. Define LAN, WAN, PAN, MAN, and remote connectivity
9. Describe Wireless networking
10. Describe Networking Operating Systems
11. Define network security and what that means
12. Define network integrity and availability

Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

AAS in Cybersecurity and Information Assurance

Demonstrate a basic understanding of networks and computer security in the business environment.

All Course Outcomes relate to the Program Outcome.