



Course Information

Division	Business
Contact Hours	45
Total Credits	3

Prerequisites

CIS 209

Course Description

This course will cover concepts and functions of networks and related business technology. The course includes a description of equipment, networking procedures, and protocols. It will also include a review of installing, configuring, and troubleshooting a computer network. Students will also cover 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 environment.

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

Course level Student Learning Outcomes

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

- CIA 210 CSLO 01 - Define a network
- CIA 210 CSLO 02 - Describe the common elements in a network
- CIA 210 CSLO 03 - Describe the different types of networks
- CIA 210 CSLO 04 - Define networking standards and where to find them
- CIA 210 CSLO 05 - Describe TCP/IP, IPv4, IPv6, DNS, and application layer protocols
- CIA 210 CSLO 06 - Define network topologies and Ethernet Standards
- CIA 210 CSLO 07 - Describe networking hardware
- CIA 210 CSLO 08 - Define LAN, WAN, PAN, MAN, and remote connectivity
- CIA 210 CSLO 09 - Describe Wireless networking
- CIA 210 CSLO 10 - Describe Networking Operating Systems
- CIA 210 CSLO 11 - Define network security and what that means
- CIA 210 CSLO 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

All Course level Student Learning Outcomes relate to the Program Outcome,

- CY PSL0 04 - Demonstrate a basic understanding of networks in the business environment.
Configure basic networking services on computers in the workplace.