

COMPUTER NETWORKS (CNT)

CNT 3403 Network Defense Security

Credit Hours: 3

Prerequisites: CTSC 2120 with a grade of "C" or higher and departmental approval or admission to the Bachelor's program required

Lab Fee: Yes

This course provides a foundation in the fundamentals of network security defense including intrusion detection and firewalls. Students will examine advanced topics such as security policies, packet filtering and analysis, perimeter defense, virtual private networks, and network traffic signatures.

CNT 3406 Information Security Management

Credit Hours: 3

Prerequisites: CTSC 2120 with a grade of "C" or higher or departmental approval and admission to Bachelor's program required

Lab Fee: Yes

This course covers the fundamental concepts relating to information security management including confidentiality, integrity, availability, vulnerability, threats, risks and countermeasures. It includes an overview of current national legislation and regulations which impact information security management and a discussion on current business and common technical environments in which information security management has to operate.

CNT 3702 Infrastructure and Facilities Planning

Credit Hours: 3

Prerequisites: CTSC 1134 with a grade of "C" or higher and departmental approval or admission in Bachelor's program required

Lab Fee: Yes

Students integrate computer and networking hardware and software into a robust, secure, redundant, and resilient infrastructure. Students research and present findings related to enterprise projects in computer networking design.

CNT 4704 Network Planning and Design

Credit Hours: 3

Prerequisites: CTSC 2652 or Departmental approval and admission to Bachelor's program required

Lab Fee: Yes

In this course, students will examine computer network goals, models and designs for both local-area networks and wide-area networks with specific emphasis on internetworking principles. They will evaluate current network technologies and use these in the planning of a network. Through simulation techniques and graph and queuing theory, students will plan the capacity of a network and analyze its performance.