CYBR 4323: Data Communications & Networking

3 Credit Hours

Prerequisite: CYBR 3123 or IT 3123, and Cybersecurity Major.

Fundamental concepts of computer networking include topics such as properties of signals and media, information encoding, error detection and recovery, LANs, backbones, WANs, network topologies, routing, Internet protocols, and security issues. The focus is on general concepts together with their application to support the business enterprise.

CYBR 4330: Incident Response and Contingency Planning

3 Credit Hours

Prerequisite: CYBR 3300, and Cybersecurity Major, Cybersecurity Minor, or Cybersecurity Undergraduate Certificate.

This course offers coverage of the cybersecurity contingency planning. It includes the detailed aspects of incident response planning, disaster recovery planning, and business continuity planning. Developing and executing plans to deal with incidents in the organization is a critical function in cybersecurity. This course focuses on the planning processes for the execution of response to human and non-human incidents in compliance with these policies.

CYBR 4333: Network Configuration & Administration

3 Credit Hours

Prerequisite: CYBR 4323 or IT 4323 and Cybersecurity Major.

This course continues the study of networks. Topics include design and implementation of networks including synchronization, scheduling, exception and deadlock resolution, client server and web based collaborative systems. Network security will also be covered. Cost estimates and speed are examined from a management perspective.

CYBR 4350: Management of Digital Forensics and eDiscovery

3 Credit Hours

Prerequisite: (CYBR 3210 and CYBR 3423), and Cybersecurity Major.

This course explores the key issues in digital forensics: the detection, isolation and response to security breaches and attacks. It provides specific procedures required to respond to a computer crime incident and also provides coverage of the entire digital forensic sequence and the eDiscovery process within organizations.