

CYBR 3423: Operating Systems Concepts & Administration

3 Credit Hours

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

This course is an introduction to basic operating system principles. Topics include memory management, peripheral device management, file system management and process management. Different types of operating systems and their administrations are studied. Projects are carried out with simulations

CYBR 4200: Perimeter Defense

3 Credit Hours

Prerequisite: (CYBR 3200 and CYBR 4323), and Cybersecurity Major.

An exploration of cybersecurity techniques, tools, and technologies used to protect an organizations network infrastructure. The course will examine the evaluation, selection, deployment, and administration of firewall, VPN, IDPS, and other applications used to defend organizational networks and information assets from attacks.

CYBR 4220: Server Systems Security

3 Credit Hours

Prerequisite: (CYBR 4200 and CYBR 4423), and Cybersecurity Major.

This course offers the detailed technical knowledge and skills necessary to protect computer server information system by presenting the knowledge of server platform computer hardware components, server network devices and interfaces, as well as the structure and usage of common server operating system software from a cybersecurity perspective. Additional learning regarding ongoing maintenance and operational issues of server computing systems will also be included.

CYBR 4305: Technology and Cyber Crime

3 Credit Hours

Prerequisite: CRJU 1101, and Cybersecurity Major.

This course provides an overview of cyber crime and computer-related crime issues facing the American criminal justice system, particularly law enforcement. Topic areas include prevalence and types of cyber crime, cyber crime victim and offender characteristics, and methods and types of technologies used to engage in cyber crime. Emphasis is placed on the criminal justice system's investigation and response to cyber crime. Future trends of cyber crime and computer-related crime are also discussed.