CNT: COMPUTER NETWORK TECHNOLOGY

Courses	Credit(s)	Contact	Lab
CNT 2000C. NETWORK AUTOMATION WITH SCRIPTING LANGUAGES.	3	3	1

NETWORK AUTOMATION WITH SCRIPTING LANGUAGES Prerequisite: Minimum grade of C in CTS 2322C This course starts by providing an introduction to network automation, Software defined networks (SDN), and various applications of network automation, which include integrating DevOps tools to automate the network efficiently. It then guides the student through different network automation tasks and covers various data digging and reporting methodologies such as IPv6 migration, Domain Control (DC) relocations, and interface and data parsing, all the while retaining security and improving data center robustness. The course covers the use of Python scripting and Ansible Automation and is geared towards preparing students for the Red Hat Certified Engineer (RHCE) industry certification exam. (Special Fee: $35.00).

CNT 2413C. NETWORK FORENSICS & INCIDENT RESPONSE.	3	3	1

NETWORK FORENSICS & INCIDENT RESPONSE Prerequisite: CET 2830C. This course covers the tools, technology and processes required to integrate network evidence sources into your investigation, with a focus on efficiency and effectiveness. The course will cover a full spectrum of network evidence, including high-level analysis, low-level pcap exploration and ancillary network log examination. The course will culminate with practical real world application of the tools learned throughout the course. (Special Fee $50.00).

CNT 2414C. CYBERCRIME INVESTIGATION.	3	3	1

CYBERCRIME INVESTIGATION Prerequisite: CET 2178C This course provides an overview of cybercrime and its investigation. A foundational understanding of the criminal justice system, including laws specific to cybercrime investigation, will be covered. Students will learn about the variety of crimes occurring, how the investigative process is applied for each type of crime, and problems that are unique to cyber investigation. (Special Fee $50.00).

CNT 2417C. CYBERSECURITY OPERATIONS.	3	3	1

CYBERSECURITY OPERATIONS Prerequisite or Corequisite: CET 2486C This course aims to provide an introductory overview to identity management and security by presenting working definitions of Personal Identifiable Information (PII); identity management and security challenges and best practices; and the combined people, processes, policies, and technology required to manage and secure PII for a number of different market sectors. The course will culminate with practical applications of information security and its relationship to identity management. (Special Fee $53.00).

CNT 2426C. CLOUD INFRASTRUCTURE SECURITY.	3	3	1

CLOUD INFRASTRUCTURE SECURITY Prerequisite: CET 2544C This course provides a broad and deep understanding of cloud computing operations with emphasis on cloud platform and infrastructure security. Topics such as building block technologies of the cloud (virtualization, storage, and networking), cloud data security, operation, and systems management will be discussed. Related hands-on lab exercises will allow students to apply learned concepts. (Special Fee $50.00).