DEGREES & CERTIFICATES

CYBERSECURITY AND NETWORK ADMINISTRATION ASSOCIATE OF SCIENCE (AS)

About the Program
The Associate of Science in Cybersecurity and Network Administration degree was developed in conjunction with our local national labs and industry partners to provide students with a solid background in the fields of Computer Networking and Cybersecurity. The focus on Cybersecurity will provide the student with many of the important skills needed for an entry-level career in Cybersecurity. The courses provide an overview of the entire field. Topics covered will include Cisco Security, Windows Operating System security, Linux security, firewalls, cloud computing, security policies and procedures, e-mail & web security, and designing and building a secure computer network.

Program Goals and Objectives
The Associate of Science in Cybersecurity and Network Administration degree was developed in conjunction with our local national labs, industry partners, and the National Institute of Standards and Technology's (NIST) National Initiative for Cybersecurity Education (NICE) to provide students with a breadth of coursework and practical hands-on experience needed by computer networking and cybersecurity professionals. Our program is in alignment with the NICE Cybersecurity Workforce Framework.

Career Opportunities
Students who complete the Associate of Sciences in Network Security and Administration degree will be prepared for careers in: Network Specialist/Technician/Engineer, Systems Specialist/Technician/Engineer, Microsoft Specialist/Technician/Engineer, Cisco Specialist/Technician/Engineer, Information Security Specialist, Cybersecurity Specialist, IT Specialist Information Security, IT Security Specialist/Consultant, Information Technology Specialist information Security, Incident Analyst/Responder, IT Auditor, Cyber Crime Analyst/Investigator, Cybersecurity Specialist/Technician, Cyber Risk Analyst, Cybersecurity Analyst, Cybersecurity Consultant, Information Security Consultant, Penetration & Vulnerability Tester, Cybersecurity Manager/Administrator, Cybersecurity Engineer, Cybersecurity Architect.

Learning and Career Pathway Maps

View LPC Program Map

Required Core: (37 Units)
CNT 51 CompTIA's A+ Certification Computer Technician...4
CNT 52 Networking Fundamentals or 3
CIS 66 Networking Fundamentals..3
CNT 55 MCSA I Windows Server Installation, Storage, and Compute.. 3
CNT 68 Digital Forensics Fundamentals..3
CNT 69 Network Security; CompTIA Security + Certification... 3
CNT 7285 Cloud Infrastructure: CompTIA Cloud+ Certification..3
CNT 7401 Red Hat Linux Administration I or 3
CS 41 Red Hat Linux Administration I..3
CNT 7501 Ethical Hacking..3
CNT 8001 Cisco CCNA1/3 Introduction to Networks (ITN)... 3
CNT 8002 Cisco CCNA2/3 Switching, Routing, and Wireless Essentials (SRWE)..3
CNT 8003 Cisco CCNA3/3 Enterprise Networking, Security, and Automation v7.0 (ENSA)..3
CIS 43 Professional Communications or 3
CNT 43 Professional Communications or 3
CS 43 Professional Communications...3

Total Units for the Major..**37**

Program-Based GE: (3 Units)
CIS 50 Introduction to Computing Information Technology.. 3

Additional General Education and Elective Units.. **20**