

NETWORK SECURITY ADMINISTRATION (ITC)

Intermediate Technical Certificate

Career-Technical Program

Interest Areas:

Business Admin. and Management

The Network Security Administration one-year Intermediate Technical Certificate (ITC) teaches the foundations of cybersecurity and networking job skills. It will prepare students for an entry-level career in the information technology and cybersecurity industry. This certificate combines networking fundamentals with the requisite entry-level network security concepts and effective practices required to implement and administer secure network environments. The technical courses combine both networking concepts and security fundamentals with a focus on best practices required to implement and administer secure network environments. It will also provide opportunities for those employed in the information technology field to enhance their knowledge and credentials and advance in their careers. During the program students are encouraged to work toward a variety of industry certifications in addition to the ITC certificate.

This is a selective enrollment program. Successful completion of each semester or permission of the instructor is required to continue to the next semester. Successful completion of the technical certificate or permission of the instructor is required for enrollment in third and fourth semester courses.

Final regulations published in the Federal Register on October 29, 2010, require institutions to report certain information about students who enrolled in Title IV (<https://www.nic.edu/programs/ge/TitleIV.aspx>) eligible educational programs that lead to gainful employment in a recognized occupation (GE programs). Those regulations also provide that institutions must disclose to prospective students certain information about the institution's GE Programs.

For programs that fall under these regulations, NIC provides information on cost, financing, and completion.

Program Website (https://www.nic.edu/programs/viewprogram.aspx?program_id=109)

Program Requirements

Course	Title	Credits
Semester 1		
CITE-118	Computer Information Technology Essentials	2
CITE-121	Network Support I	3
CITE-122	Network Support I Projects	3
CITE-124	TCP/IP Fundamentals	2
ENGL-101	English Composition	3
Select one of the following:		3-5
MCTE-101	Technical Mathematics	
GEM 3 - A.A.S. Mathematical Ways of Knowing		
Credits		16-18

Semester 2

CITE-142	Information Security Fundamentals	3
CITE-155	Linux Essentials	3
CITE-213	Network Support II	3
CITE-215	Network Support II Projects	3
COMM-101	Introduction to Speech Communication	3
Credits		15
Total Credits		31-33

Course Key



GEM



WCHE

AAS
Institutionally
Designated

Gateway



Milestone

Program Outcomes

Upon completion of the program, students will be able to:

- Demonstrate appropriate work relationships and habits, communication skills, and computation skills used in entry-level network security administration positions.
- Describe the devices and services used to support communications in data networks and Internet.
- Conceptualize, design and diagram possible solutions for a given networking environment.
- Evaluate various network devices and media and how best to secure them.
- Describe why information security is essential in today's IT environment.
- Describe common security threats and their ramifications.
- Participate as an active and effective member of a project team engaged in achieving specific implementation of functioning secure networks.
- Demonstrate sensitivity to and sound judgment on ethical issues as they arise in information security and cyber defense.
- Demonstrate good work habits.
- Demonstrate appropriate work relationships and habits, communication skills, and computation skills used in entry-level network security administrator positions.