

NETWORK SECURITY (CCC)

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Delivery Method(s): On-Campus, Hybrid

Location(s): All campuses and online

Limited Access: No

Program Testing Requirements: Not Required

Academic Community: STEM

Program Code: NECC

Classification of Instructional Programs (CIP) Code: 11.1001

Florida Department of Education CIP Code: 0511100118

This certificate is part of the A.S. Cybersecurity and Network Systems degree.

The program is designed to prepare students for entry-level network security technician position. The core courses provide introduction to:

- network design and operations
- securing network infrastructures and protecting data
- security penetration testing
- responding to cybersecurity incidents
- understanding essential elements of forensic analysis

The techniques and skills are introduced in a progressive delivery starting with computer networking, client and server operating systems, security protection and testing methods, and elements of forensic analysis.

Students currently employed in the field can supplement and upgrade their skills through a variety of offerings in computer systems administration, network design and protection, and security methods and techniques. Credits earned in this certificate may apply to the A.S. Cybersecurity and Network Systems degree.

Refer to the [College Credit Certificate](#) overview page to find information about admission, graduation, general education and other requirements.

Visit the [program page](#) for more information.

Program of Study

Code	Title	Credit Hours
Major Courses		
CET 2894	Capstone in Cybersecurity	3
CETC 2890	Cybersecurity	3
CIS 2381	Foundations of Digital Forensics	3
CTS 1321	Linux Networking and System Administration ¹	3
CTS 1329	Microsoft Client O/S	3
CTS 1383	Microsoft Server O/S - Installation and Configuration	3
CTS 2370	Virtual Infrastructure- Planning and Design	3
CTSC 1134	Network+	3
CTSC 1651	Cisco Router Technology	3
CTSC 2120	Network Security Fundamentals	3
Total Hours:		30

¹ This course has a prerequisite of [CGS 1000](#) Exploring Digital Technology

Course Sequence

Below is the recommended sequence for taking courses in this degree. Using this guide and meeting with your assigned advisor each term is the key to successful program completion.

Please note that course prerequisites, including required developmental math, reading, or writing, need to be completed to continue on to the more advanced course. Courses followed by “&” have prerequisites that are not part of this program. Click on the course number to see the requirements.

Code	Title	Credit Hours
CTSC 1134	Network+ ^{Fa, Sp}	3
CTS 1329	Microsoft Client O/S	3
CTS 1383	Microsoft Server O/S - Installation and Configuration ^{Fa, Sp}	3
CTS 1321	Linux Networking and System Administration ^{Fa, Sp}	3
CTS 2370	Virtual Infrastructure- Planning and Design ^{Fa, Sp}	3
CTSC 1651	Cisco Router Technology ^{Fa, Sp}	3
CTSC 2120	Network Security Fundamentals ^{Fa, Sp}	3
CIS 2381	Foundations of Digital Forensics ^{Fa, Sp}	3
CETC 2890	Cybersecurity ^{Fa, Sp}	3
CET 2894	Capstone in Cybersecurity ^{Sp}	3
Total Hours:		30

- If no term is designated, course is offered every term
- FaCourse offered in fall term
- SpCourse offered in spring term

Learning Outcomes

1. Apply subnetting to IP Networks
 - *Core Ability Supported: Think Critically and Solve Problems*
2. Analyze asymmetric encryption methods for secure authentication and data exchange.
 - *Core Ability Supported: Think Critically and Solve Problems*
3. Design a group policy strategy
 - *Core Ability Supported: Think Critically and Solve Problems*
4. Install a domain controller
 - *Core Ability Supported: Think Critically and Solve Problems*
5. Contrast absolute and relative pathnames
 - *Core Ability Supported: Think Critically and Solve Problems*
6. Contrast stand-alone utilities and built-in shell commands
 - *Core Ability Supported: Think Critically and Solve Problems*
7. Create a small workgroup environment
 - *Core Ability Supported: Think Critically and Solve Problems*
8. Contrast NTFS and share level file and folder permissions
 - *Core Ability Supported: Think Critically and Solve Problems*
9. Analyze the primary functions and features of a router
 - *Core Ability Supported: Think Critically and Solve Problems*
10. Design a hierarchical addressing scheme
 - *Core Ability Supported: Think Critically and Solve Problems*