

NETWORK SUPPORT TECHNICIAN (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: NTCC

Classification of Instructional Programs (CIP) Code: 11.1001

Florida Department of Education CIP Code: 0511100121

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

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

- network administration, operations and design
- securing network infrastructures and protecting data
- operating systems administration, concepts, and practices
- network security fundamentals
- authentication and encryption methods
- network design and operations
- securing network infrastructures and protecting data
- responding to cybersecurity incidents

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 also apply to the A.S. Cybersecurity and Network Systems .

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 1176 | Computer Maintenance and Repair ¹ | 3 |
| CTS 1321 | Linux Networking and System Administration | 3 |
| CTS 1329 | Microsoft Client O/S | 3 |
| CTS 1383 | Microsoft Server O/S - Installation and Configuration | 3 |
| CTSC 1134 | Network+ | 3 |
| CTSC 1651 | Cisco Router Technology | 3 |
| CTSC 2120 | Network Security Fundamentals | 3 |
| Total Hours: | | 21 |

¹ This course has the following prerequisite [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 |
|---------------------|---|--------------|
| CET 1176 | Computer Maintenance and Repair ^{&, Fa, Sp} | 3 |
| CTSC 1134 | Network+ ^{Fa, Sp} | 3 |
| CTS 1329 | Microsoft Client O/S | 3 |
| CTS 1321 | Linux Networking and System Administration ^{&} | 3 |
| CTS 1383 | Microsoft Server O/S - Installation and Configuration ^{Fa, Sp} | 3 |
| CTSC 1651 | Cisco Router Technology ^{Fa, Sp} | 3 |
| CTSC 2120 | Network Security Fundamentals ^{Fa, Sp} | 3 |
| Total Hours: | | 21 |

- If no term is designated, course is offered every term

FaCourse is offered in fall term

SpCourse is 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*