NETWORK VIRTUALIZATION, COLLEGE CREDIT CERTIFICATE

Program Code: NVCC
Meta-Major: STEM
Location(s): Cocoa, Melbourne, Palm Bay, Titusville, Online
Delivery Method(s): On-Campus, Hybrid
Previous Degree Required: HS Diploma
Eligible for Financial Aid: Yes
Additional Limited Access Application Process Required: No
Program Testing Requirements:
Classification of Instructional Programs (CIP) Code: 11.1001
Florida Department of Education CIP Code: 0511100116

This certificate program is designed to prepare students for entry-level network server administrator position. The core courses provide an introduction to:

- fundamentals of computer virtualization
- installing and configuring the virtualization server platform
- installing, configuring and managing virtualized clients
- planning for business continuity and high availability

The techniques and skills are introduced in a progressive delivery starting with, client and server operating systems, computer virtualization methods, and elements of server administration.

Students currently employed in the field can supplement and upgrade their skills through a variety of offerings in computer systems administration, client and server virtualization in a networked environment. Credits earned in this certificate may apply to the Associate in Science (A.S.) degree in Network Systems Technology. Visit the program page for more details and how to apply.

Refer to course descriptions to determine prerequisites.

Certificate Requirements

Code	Title	Credit Hours
Major Courses		
CTS 1321	Linux Networking and System Administration	3
CTS 1383	Microsoft Server O/S - Installation and Configuration	3
CTS 2370	Virtual Infrastructure- Planning and Design	3
CTS 2371	Virtual Computing- Deployment, Security, and Analysis (VMware)	3
CTS 2384	Directory Services	3
CTS 2411	Information Storage Management	3
CTS 1329	Microsoft Client O/S	3
CTSC 1134	Network+	3
Total Credit Hours		**24**

Course	Title	Credit Hours
Year 1		
Fall		
CTS 1329	Microsoft Client O/S	3
CTSC 1134	Network+	3
	Credit Hours	**6**
Spring		
CTS 1321	Linux Networking and System Administration	3
CTS 1383	Microsoft Server O/S - Installation and Configuration	3
CTS 2370	Virtual Infrastructure- Planning and Design	3
	Credit Hours	**9**
Year 2		
Fall		
CTS 2371	Virtual Computing- Deployment, Security, and Analysis (VMware)	3
	Credit Hours	**3**
Spring		
CTS 2384	Directory Services	3
CTS 2411	Information Storage Management	3
	Credit Hours	**6**
	Total Credit Hours	**24**

Learning Outcomes: Network Systems Technology A.S.

1. Apply subnetting to IP Networks
   - *Supports Core Ability: Think Critically and Solve Problems*
2. Analyze user authentication methods
   - *Supports Core Ability: Think Critically and Solve Problems*
3. Design a group policy strategy
   - *Supports Core Ability: Think Critically and Solve Problems*
4. Install a domain controller
   - *Supports Core Ability: Think Critically and Solve Problems*
5. Contrast absolute and relative pathnames
   - *Supports Core Ability: Think Critically and Solve Problems*
6. Contrast stand-alone utilities and built-in shell commands
   - *Supports Core Ability: Think Critically and Solve Problems*
7. Create a small workgroup environment
   - *Supports Core Ability: Think Critically and Solve Problems*
8. Organize user accounts into logical group accounts
   - *Supports Core Ability: Think Critically and Solve Problems*
9. Analyze the primary functions and features of a router
   - *Supports Core Ability: Think Critically and Solve Problems*
10. Design a hierarchical addressing scheme
    - *Supports Core Ability: Think Critically and Solve Problems*