

2022-23 ACADEMIC PROGRAMS

COMPUTER NETWORKING OPERATING SYSTEMS (CVCNOR)

Advanced Certificate

This Cisco Networking Academy program prepares students for a job as a network technician where they will install, configure, and troubleshoot Local Area Networks under the supervision of a network administrator. The focus is placed on cabling systems, internetworking hardware, and network and internetworking protocols, both LAN and WAN. This program also gives the students a strong foundation in their preparation for passing the Cisco Certified Network Associate Examination.

The four main areas of this program are:

- Introduction to Networks
- Routing and Switching Essentials
- Scaling Networks
- Connecting Networks

The program is structured for students who:

- desire a foundation in the concepts leading to the Cisco Certified Network Associate Examination.
- are already certified and want to enhance their knowledge with the latest in Networking hardware, (Routers and Switches) and their associated operating systems.
- want the foundation skills necessary to obtain an entry level job in the Networking Field.
- want to obtain the Associate Degree (APCSN) associated with this program and additionally, if desired, transfer to a four year school.

Highlights

- Earn this advanced certificate in two semesters.
- Work towards the Associate Degree (APCSN) of which this certificate is part of.
- Use the APCSN Associate Degree for a direct transfer to Eastern Michigan's Technology Management Program.

Admission Requirements

Completion of the *Computer Systems Technology (CTCSTC)* is recommended for those limited experience with Computer Hardware, Operating Systems, and Networking.

This is a **high demand, high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

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Description

This program lays a foundation in preparation for a profession as a Microsoft Certified IT Professional. Students will install, configure, and troubleshoot Microsoft Client Server Networks. The program is designed to deploy and manage both Windows Server and Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server Active Directory, Network Services, and other Server functions are all emphasized. All Server configured activities are tested out using Client Workstations to ensure they work, just as in a real business environment. The program is structured for those who are working towards Microsoft Server certifications. Also those already having certification who want to enhance their knowledge with the newer operating systems, as well as those who may just want to learn how to effectively implement these technologies are welcome.

Admissions Requirements

Completion of the Computer Systems Technology Program (CTCSTC) or CST 160 and CST 185 with a minimum grade of "C," passing the COMPTIA certification, or equivalent industry experience.

Course Requirements

Major/Area Requirements

Class	Title	Minimum Credits
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 211	Installation, Storage, and Compute - Windows Server	4
CNT 223	Networking with Windows Server	4
CNT 224	Identity with Windows Server	4
Total		15

Total Credits Required: 15

Footnotes

This program is designed to be completed in a two semester time frame.

Accurate as of 12/02/2022 Information is subject to change without notice.