

2021-22 ACADEMIC PROGRAMS

COMPUTER NETWORKING OPERATING SYSTEMS I (CVCNO)

Advanced Certificate

This advanced certificate program lays a foundation in preparation for a profession as a Microsoft Certified Solutions Associate (MCSA) for Windows Servers and Windows Clients. Students will install, configure, and troubleshoot Microsoft Client/Server Networks. The program is designed to deploy and manage the latest versions of Windows Server and Client Workstations in simulated real-life situations. The student will learn the techniques for:

- Administering, managing, monitoring and troubleshooting of Active Directory
- Implementing various Network Services such as Domain Name Service (DNS), Dynamic Host Configuration Protocol (DHCP) Virtual Private Networks (VPNs), and Routing
- Managing multiple storage techniques using physical and virtual machines,

All Server configured policies, etc. are fully tested using Client Workstations to insure they are implemented, just as in a real business environment.

The program is structured for students who:

- desire a foundation in the concepts leading to the MCSA certification.
- are already certified and want to enhance their knowledge with the latest in operating system's new features and enhancements.
- want to obtain the Associate Degree (APCSN) associated with this program and additionally, if desired, transfer to a four year school.
- want the foundation skills necessary to obtain an entry level job in the networking field
- may just want to learn how to effectively implement these Server/Workstation technologies.

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 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 2003 and Server 2008 with Client Workstations in simulated real-life situations. Administering, managing, monitoring, and troubleshooting of Server 2008 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 both those who are working towards Microsoft Server 2003 MCSA/MCSE certifications, and/or Server 2008 MCTS/MCITP 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 150 and CST 225 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 2016 | 4 |
| CNT 223 | Networking with Windows Server 2016 | 4 |
| CNT 224 | Identity with Windows Server 2016 | 4 |
| Total | | 15 |

Total Credits Required: 15

Footnotes

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

Accurate as of 09/24/2021 Information is subject to change without notice.