2024-25 ACADEMIC PROGRAMS

CYBERSECURITY (APCSCY)

Associate in Applied Science

In this Associate's degree program, students are introduced to the skills and strategies needed to plan and carry out security measures to protect an organization's computer networks and systems. Students will learn networking and network security skills using server, infrastructure and perimeter technologies working in Linux operating systems, Cisco infrastructure and perimeter devices, and Microsoft operating systems. Learners in this program acquire the following skills:

- · Understand common networking and security terms and concepts.
- Learn basic Linux tools and utilities.
- Deploy server and clients in a Microsoft Windows network.
- Learn basic scripting using Python.
- · Solve internetworking problems using Cisco devices in a "real-life" and emulated internetwork.
- Configure secure topologies using a "real-life" and emulated internetwork.
- · Learn basic penetration testing techniques using contemporary tools in a virtual environment.
- · Monitoring, detecting, investigating, analyzing and responding to security events.

This degree program transfers into Eastern Michigan University's Information Assurance & Cybersecurity undergraduate program. For the student either deferring or not desiring transfer, sufficient skills are acquired to qualify the learner for an entry-level position in network administration or information security.

For the working professional, many courses in this program are available online.

Students completing this program are also eligible to receive Computer Networking Academy Certificate, Principles of Cybersecurity certificate and Cybersecurity Operations Security by completing 2 additional credit hours in certification preparation (CNT 295 and CSS 295).

This is a high demand, high skill and high wage program as defined by the Michigan Community College Network.

NSA-Certified

Washtenaw Community College has been designated as a National Center of Academic Excellence in Cyber Defense Education. We are extremely pleased to receive this acknowledgment and will continue our commitment to providing a comprehensive cybersecurity education to our students.



Do you have another career in mind? Search for careers

Description

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Articulation

Eastern Michigan University, BS degree

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: https://www.wccnet.edu/ learn/transfer-wcc-credits/articulation-agreements.php.

Continuing Eligibility

Minimum grade of "C" in all major courses

Course Requirements

First Semester

Class CIS 120 CNT 201 CNT 206 Elective Elective Total	Title Linux/UNIX I: Fundamentals Microsoft Client/Server Administration Introduction to Networks Writing Elective(s)* Soc. Sci. Elective(s)	Minimum Credits 3 4 3 3 16
Second Semester		
Class CNT 216 CPS 141 CSS 200 CSS 205 Total	Title Switching, Routing and Wireless Essentials Introduction to Programming Using Python Introduction to Network Security - Security+ Essentials of Network Penetration Testing	Minimum Credits 4 4 4 4 16
Third Semester		
Class CNT 211 CNT 226 CSS 210 MTH 160 Total	Title Server Administration I Enterprise Networking, Security, and Automatio (ENSA) Network Perimeter Protection - CCNA Security Basic Statistics	Minimum Credits 4 n 4 4 4 16
Fourth Semester		
Class CNT 290 CSS 225 Elective Elective Elective Total	Title Network Forensics Cybersecurity Operations - CCNA Cyber Ops Speech/Comp. Elective(s) Nat. Sci. Elective(s) Arts/Human. Elective(s)	Minimum Credits 4 3 3 3 17

Total Credits Required: 65

Footnotes

*Students planning to transfer to a 4-year college should take ENG 111; otherwise, student may consider ENG 107.

Accurate as of 06/28/2024 Information is subject to change without notice.