

2020-21 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.

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 Principles of Cybersecurity (CTCYS) certificate.

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.



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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	Title	Minimum Credits
CIS 121	Linux/UNIX I: Fundamentals	4
CNT 201	Administering Microsoft Windows Client Operating Systems	3
CNT 206	Introduction to Networks	4
Elective	Writing Elective(s)*	3
Total		14

Second Semester

Class	Title	Minimum Credits
CNT 216	Switching, Routing and Wireless Essentials	4
CPS 141	Introduction to Programming Using Python	4
CSS 200	Introduction to Network Security - Security+	4
Elective	Speech/Comp. Elective(s)	3
Total		15

Third Semester

Class	Title	Minimum Credits
CSS 205	Essentials of Network Penetration Testing	4
CSS 210	Network Perimeter Protection - CCNA Security	4
CNT 211 or	Installation, Storage, and Compute - Windows Server 2016	
CNT 223 or	Networking with Windows Server 2016	
CNT 224	Identity with Windows Server 2016	4
MTH 160	Basic Statistics	4
Total		16

Fourth Semester

Class	Title	Minimum Credits
CNT 290	Network Forensics	4
CSS 225	Cybersecurity Operations - CCNA Cyber Ops	4
Elective	Arts/Human. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Total		17

Total Credits Required: 62**Footnotes**

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

Accurate as of 01/22/2021 Information is subject to change without notice.