



Cybersecurity*

AAS (60 SCH**)

**Semester Credit Hour

8/2020

* Pending SACSCOC Approval

First Semester - 15 SCH	Second Semester - 15 SCH
COSC 1301 - Introduction to Computing ITCC 1314 - CCNA 1: Introduction to Networks ITSC 1305 - Introduction to PC Operating Systems ITSY 1300 - Fundamentals of Information Security ENGL 1301 - Composition I	ITCC 1340 - CCNA 2: Routing Protocols and Concepts ITSY 1342 - Information Technology Security ITNW 1354 - Implementing and Supporting Servers ITNW 2305 - Network Administration MATH 1332 - Contemporary Mathematics
Third Semester - 15 SCH	Fourth Semester - 15 SCH
ITSY 2330 - Intrusion Detection ITSY 2300 - Operating System Security ITSY 2301 - Firewalls and Network Security ITSC 1325 - Personal Computer Hardware DRAM 1310 - Theater Appreciation	ITSY 2343 - Computer System Forensics ITSY 2342 - Incident Response & Handling ITSY 2345 - Network Defense and Countermeasures GAME 1301 - Computer Ethics ECON 2302 - Principles of Microeconomics

Marketable Skills

- Oral and Written Communication
- Critical Thinking
- Decision Making
- Ethics
- Technical Proficiency
- Leadership and Teamwork
- Computer Skills
- Social Responsibility
- Personal Responsibility

Program Outcomes

- Ability to conduct risk and vulnerability assessments of existing and proposed networked systems.
- Demonstrate an understanding of cyber defense and attack methods.
- Show how ethical issues impact decision making in the cybersecurity area.
- Demonstrate techniques to design a secure network.
- Troubleshoot an information security system.

High School Endorsements

Business and Industry

Additional Educational Opportunities

Students may continue their education through a BAAS degree, in addition to various industry certifications.

Career Opportunities

Information Security Analyst; Cybersecurity Engineer; Network Security Engineer; Vulnerability Analyst/Penetration Tester; Cybersecurity Consultant; Security Architect; Security Auditor; Security Specialist; Computer Forensics Analyst; Ethical Hacker