Cybersecurity Option A.A.S

Degree Type
A.A.S.

This degree prepares students for careers in information security. The primary emphasis of the curriculum is extensive hands-on training in information assurance for network hardware, software, and data, including physical security, backup procedures, relevant tools, encryption, and incident handling and reporting. Instruction will also include related computer areas that provide the ability to adapt as information systems evolve. Upon completion of the program, graduates should qualify for employment in business, industry, and government organizations in such positions as Network Security Analyst; Information Security Analyst; Penetration Tester; Security Systems Analyst; Cybersecurity Analyst; Cyber Incident Analyst; and Cyber Security - Incident Responder.

Students must adhere to prerequisite courses as described in the course descriptions in this catalog. Students who successfully complete the following courses can be awarded this degree.

First Semester

Course Number	Title	Credits
CPMT 1351	IT Essentials: PC Hardware and Software	3
ITDF 1300	Introduction to Digital Forensics	3
ITNW 1313	Computer Virtualization	3
ITSY 1300	Fundamentals of Information Security	3
ITSE 1359	Introduction to Scripting Languages	3

Second Semester

Course Number	Title	Credits
ITSC 1316	Linux Installation and Configuration	3
ITSY 2300	Operating Systems Security	3
ITSY 2301	Firewalls and Network Security	3
ITNW 1309	Fundamentals of Cloud Computing	3
ITSC 1315	IT Project Management	3

Third Semester

Course Number	Title	Credits
ITSY 2341	Security Management Practices	3
ITSY 2342	Incident Response and Handling	3
ITSY 2359	Security Assessment and Auditing	3
ENGL 1301	Composition I	3
MATH 1342	Elementary Statistical Methods	3

Fourth Semester

Course Number	Title	Credits
ITSY 2286	Internship, Computer and Information Systems Security	2
POFT 1120	Job Search Skills	1
ENGL 2311	Technical & Business Writing (single-semester course)	3
PHIL 2306	Introduction to Ethics	3
	SPCH 1321	3
	Social and Behavioral Science	3
	Total Credits	**60**