

Cybersecurity CY13

Type

Associate of Applied Science, AAS

The Cybersecurity degree program is a sequence of courses designed to provide students with an understanding of the concepts, principles, and techniques required in computer information processing. Graduates are to be competent in the general areas of humanities or fine arts, social or behavioral sciences, and natural sciences or mathematics, as well as in the technical areas of computer terminology and concepts, program design and development, and computer networking. Program graduates are qualified for employment as Cybersecurity Specialists or Information Security Analysts.

Area I - Language Arts/Communications (3 hrs) — 3.00 Hours

Item #	Name	Credits
ENGL 1101	Composition and Rhetoric	3

Area II - Social/Behavioral Sciences (3 hrs) — 3.00 Hours

* Select at least one of the following:

Item #	Name	Credits
ECON 1101	Principles of Economics	3
ECON 2105	Macroeconomics	3
ECON 2106	Microeconomics	3
HIST 1112	World History II	3
HIST 2111	U.S. History I	3
HIST 2112	U.S. History II	3
POLS 1101	American Government	3
PSYC 1101	Introductory Psychology	3
SOC1 1101	Introduction to Sociology	3

Area III - Natural Sciences/Mathematics (3 hrs) — 3.00 Hours

* Select one of the following:

Item #	Name	Credits
MATH 1100	Quantitative Skills & Reasoning	3
MATH 1101	Mathematical Modeling	3
MATH 1103	Quantitative Skills & Reasoning	3
MATH 1111	College Algebra	3

Area IV - Humanities/Fine Arts (3 hrs) — 3.00 Hours

* Select one of the following:

Item #	Name	Credits
ARTS 1101	Art Appreciation	3

ENGL 2110	World Literature	3
ENGL 2130	American Literature	3
HUMN 1101	Introduction to Humanities	3
RELG 1101	World Religion	3
THEA 1101	Theater Appreciation	3

Specific General Education Core Electives (3 hrs) — 3.00 Hours

Choose one additional course from Area I, II, III, or IV from the complete listing of General Education courses and electives: [General Education Courses](#)

Occupational Courses — 41.00 Hours

Item #	Name	Credits
CIST 1001	Computer Concepts	4
CIST 1122	Hardware Installation & Maintenance	4
COMP 1000	Introduction to Computer Literacy	3
CIST 1601	Information Security Fundamentals	3
CIST 1602	Security Policies & Procedures	3
CIST 2601	Implementing Operating System Security	4
CIST 2602	Network Security	4
CIST 2611	Network Defense and Countermeasures	4
CIST 2612	Computer Forensics	4
CIST 2613	Ethical Hacking & Penetration Testing	4
	Guided Electives (4 credits)	4

Introductory-Level Networking Class (4 hrs) — 4.00 Hours

* Choose either of the following courses:

Item #	Name	Credits
CIST 1401	Computer Networking Fundamentals	4
CIST 2451	Introduction to Networks - CISCO	4
	Minimum Credit Hours for Graduation	60