

Computer Science: Cybersecurity

Associate in Science Degree

This program combines the study of criminal justice and computer-technology to address current needs in the cybersecurity field. It prepares students to identify vulnerabilities and threats that affect corporate and government computer networks; to protect critical information in cyberspace; and to effectively design, implement, and support security policies for a large scale enterprise network. Students examine a wide variety of security analysis/defensive tools and concepts, and then attempt to circumvent them. This program prepares students to transfer to upper division Cybersecurity programs or assume entry-level positions in the Cybersecurity Industry.

Programming. Appropriate elective should be selected in consultation with your advisor.

(c) Students will take two college level math courses in the STEM programs track which includes MA115, MA125, MA150, MA151 or MA152. Course selection will be dependent on placement scores.

Total Credit Hours: 64

First Semester

CF100 College Foundations Seminar	1.0
MA110 Elementary Statistics	3.0
EN101 English 1: Composition	3.0
CI104 Introduction to Cybersecurity	3.0
HI101 History of Civilization 1	3.0
IS120 Computer Operating Systems and Environments	3.0
Physical Education Elective	0.0

Second Semester

IS240 Networking Essentials	3.0
Math Elective (c)	4.0
EN102 English 2: Ideas and Values in Literature	3.0
CI132 UNIX Operating System and Security	3.0
CI110 Principles of Programming	3.0
Physical Education Elective	1.0

Third Semester

CI130 Programming in C++	3.0
SO101 Introduction to Sociology	3.0
CI112 Networking Fundamentals	3.0
CI233	3.0
Math Elective (c)	4.0
Physical Education Elective	0.0

Fourth Semester

PH151 General Physics 1	4.0
CI212 Internet Security	3.0
CI232 Security Policies	3.0
CI246 Critical Infrastructure Security	3.0
Physical Education Elective	1.0

(a) Students take one of the following courses: CH141 General Chemistry 1 or PH151 General Physics 1. A Natural Science course should be selected in consultation with your advisor to ensure appropriate transferability.

(b) Students select from one of the following Program Electives depending on their desired track: CI233 Unix Administration and Security, CJ101 Introduction to Criminal Justice, and CI245 JAVA