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.

(c) Students will take two college level math courses in the STEM programs track which includes MA115, MA125, MA150, MA151 or MA152. Couse 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 Civ 1	3.0
IS120 Cmptr Oper Systms&Envmnt	3.0
Physical Education Elective	0.5

Second Semester

IS240 Networking Essentials	3.0
Math Elective (c)	4.0
EN102 English 2:Idea&Values Lit	3.0
CI132 Unix Oprtng Systms & Secrty	3.0
CI110 Prin Programming	3.0
Physical Education Elective	0.5

Third Semester

CI130 Programming In C++	3.0
SO101 Intro Sociology	3.0
CI112 Networking Fundamentals	3.0
Math Elective (c)	4.0
CI 233 UNIX Administration & Security (b)	3.0
Physical Education Elective	0.5

Fourth Semester

CI212 Internet Security	3.0
CI232 Security Policies	3.0
CI246 Critical Infrastruct Security	3.0
PH 151 General Physics 1 (a)	4.0
Physical Education Elective	0.5

(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 Adminstration and Security, CJ101 Introduction to Criminal Justice, and CI245 JAVA Programming. Appropriate elective should be selected in consultation with your advisor.