

Cybersecurity - Option, Associate in Applied Science

The Cybersecurity Option in Computer Systems Support serves students who seek jobs that require computer and information security skills. These students are not interested transferring to a four-year school. Emphasis is placed on data loss prevention, identity and access management, incident response, and forensic analysis. The option provides preparation for a career as a cybersecurity professional. Student can obtain skills required for several industry certifications including CompTIA Network+, CompTIA Security+, CompTIA Linux+, TestOut Ethical Hacker Pro, and CompTIA CySA+.

For additional program information, please contact faculty advisor, Bojan Zilovic at (609) 343-4959 or bzilovic@atlanticcape.edu or contact department chair, Dr. Otto Hernandez, at (609) 343-4978 or hernande@atlanticcape.edu.

Upon completion of this program students will be able to:

- Recognize professional responsibilities and make informed judgments in cybersecurity practice based on legal and ethical principles;
- Apply security principles and practices to maintain operations in the presence of risks and threats;
- Analyze a broadly defined security problem and apply principles of cybersecurity to design and implement solutions;
- Communicate effectively in a variety of professional contexts;
- Function effectively as a member of a team engaged in cybersecurity activities.

(CYSC-Fall 2023)

General Education Courses

When a course is not specified, refer to the list of approved General Education courses.

Communication

Course #	Title	Credits
ENGL101	Composition I	3
ENGL230	Technical Writing	3

Mathematics-Science-Technology

Course #	Title	Credits
	Choose: MATH121-Applications of Mathematics or MATH220-Statistical Methods (4 credits)	4
	General Education Science Course (4 credits)	4
CISM125	Introduction to Computers	3

Humanities

Course #	Title	Credits
	General Education Humanities Course (3 credits)	3

Program Courses

Course #	Title	Credits
CISM142	Help Desk Support	3
CISM143	Introduction to Project Management	3
CISM146	Computer Networking	4
CISM148	Problem Solving Using Scripting	4
CISM176	Systems Security Methods	4
CISM182	Linux	4
CISM215	Ethical Hacking	4
CISM222	Issues in Computer Security	3
CRIM/CISM240	Computer Forensics	4
CISM258	Cyber Defense	4
	Choose: CISM295-Info. Tech. Cooperative Education or CISM162-Microsoft Excel (3 credits)	3
	Total Credits	60

Recommended Sequence of Courses

First Semester

Course #	Title	Credits
CISM125	Introduction to Computers	3
CISM142	Help Desk Support	3
CISM146	Computer Networking	4
ENGL101	Composition I	3
	General Education Humanities Course (3 credits)	3

Second Semester

Choose: MATH121 or MATH220

Course #	Title	Credits
CISM148	Problem Solving Using Scripting	4
CISM176	Systems Security Methods	4
ENGL230	Technical Writing	3
	Choose: MATH121-Applications of Mathematics or MATH220-Statistical Methods (4 credits)	4

Third Semester

Course #	Title	Credits
CISM143	Introduction to Project Management	3
CISM182	Linux	4
CISM215	Ethical Hacking	4
	General Education Science Course (4 credits)	4

Fourth Semester

Course #	Title	Credits
CISM222	Issues in Computer Security	3
CRIM/CISM240	Computer Forensics	4
CISM258	Cyber Defense	4
	Choose: CISM295-Info. Tech. Cooperative Education or CISM162-Microsoft Excel (3 credits)	3