



## Cybersecurity and Digital Forensics

**Program:** Computer Information Systems

**Program Code:**

CI\_CSDF

**Academic Area:**

Science, Technology, Engineering and Mathematics

**Type:**

Associate in Science

**CIP Code:**

43.0404

### Program Statement

Students will be prepared for professional entry-level positions in the field of cybersecurity and digital forensics. Students will master the theoretical concepts of information security, the methodologies required for practical problem-solving, and the digital forensic techniques to conduct analyses of computers, networking equipment, and related information assets. Students will also learn the principles of managing risk within IT infrastructures and how to conduct business continuity and disaster recovery planning for enterprise organizations.

### Program Information

- Students must complete 16 program courses and 5 general courses for a total of 64 credits.
- All students must complete General Education Requirements which are infused through the program and general courses.
- Students with CompTIA Network+, Security+, and AWS Cloud Practitioner certifications can receive Credit for Prior Learning for CIS 134, CIT 150, and CIT 281, respectively.
- Students who have earned credit at other institutions may be able to obtain transfer credit. Transfer credit approval for any Computer Information Systems (CIS or CIT) course must be approved by the Department Chair.
- Bristol Community College is a licensed partner with CompTIA, Cisco Networking Academy, and AWS Academy. Bristol students can purchase test vouchers and prep materials at a discount.

### After Bristol

- This program prepares students for high-demand careers as information security professionals in various organizations.
- Visit Transfer Services if you plan to transfer to a four-year institution to determine available institutions. Speaking to an advisor at least one year in advance is recommended to plan your transfer path.

### Degree Requirements



## General Courses

Course #	Title	Credits
ENG 101	Composition I: College Writing	3
ENG 102	Composition II: Writing about Literature	3
MTH 131	Elements of College Mathematics	3
	COM 104 or COM 114	3
SOC 212	The Sociology of Social Problems	3

## Program Courses

Course #	Title	Credits
CIS 106	Operating System Scripting	1
CIS 115	Introduction to Cybersecurity	3
CIS 120	Programming: Logic, Design and Implementation	3
CIS 121	Operating Systems	3
CIS 131	Windows Server Administration I	3
CIS 133	Unix/Linux System Administration I	3
CIS 134	Networking Technologies	4
CIS 153	Python	3
CIT 150	Cybersecurity Principles	3
CIT 250	Cyber Defense and Firewall Security	3
CIT 251	Managing Risks in Information Systems	3
CIT 252	Critical Security Controls	3
CIT 255	Digital Forensics	4
CIT 274	Cybersecurity and Forensics Seminar	4
CIT 281	Cloud Computing	3
CIT 285	Ethical Hacking	3

## Recommended Course Sequence - Semester 1

Course #	Title	Credits
ENG 101	Composition I: College Writing	3
CIS 115	Introduction to Cybersecurity	3
MTH 131	Elements of College Mathematics	3
CIS 120	Programming: Logic, Design and Implementation	3
CIS 134	Networking Technologies	4



## Recommended Course Sequence - Semester 2

Course #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
CIS 121	Operating Systems	3
CIT 150	Cybersecurity Principles	3
CIS 106	Operating System Scripting	1
CIS 131	Windows Server Administration I	3
CIS 153	Python	3

## Recommended Course Sequence - Semester 3

Course #	Title	Credits
CIT 250	Cyber Defense and Firewall Security	3
CIT 251	Managing Risks in Information Systems	3
CIS 133	Unix/Linux System Administration I	3
	COM 104 or COM 114	3
CIT 281	Cloud Computing	3

## Recommended Course Sequence - Semester 4

Course #	Title	Credits
CIT 252	Critical Security Controls	3
CIT 255	Digital Forensics	4
CIT 285	Ethical Hacking	3
CIT 274	Cybersecurity and Forensics Seminar	4
SOC 212	The Sociology of Social Problems	3
	<b>Total credits:</b>	<b>64</b>

## Category Descriptions

### COM 104 or COM 114

Credits: 3

Choose one of the following:

Course #	Title	Credits
COM 104	Fundamentals of Public Speaking	3
COM 114	Professional Speaking	3