## Cybersecurity Certificate

General Program Information: 410-287-1000 or information@cecil.edu

The Cybersecurity Certificate provides students with the skills, knowledge and credentials to successfully begin a career in the field of Cybersecurity. Cybersecurity specialists apply computer security techniques to work with industry, government, and academia to solve computer networking and security related challenges.

	Certificate Requirements	Credits
CSC 104	Computer Science Fundamentals	3
CSC 109	Introduction to Programming	3
CSC 140	Introduction to Networking	3
CSC 141	Computer Network Security Fundamentals	3
CSC 156	Windows Server	3
CSC 151	Introduction to Computer Forensics and Investigations	3
CSC 225	Tactical Perimeter Defense	3
CSC 235	Strategic Infrastructure Security	3
CSC 266	Cisco Certified Network Associate I	4

Total Credits Required in Program: 28

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency in a programming language
- Configure and secure Windows and Unix/Linux server and clients, routers, firewalls, email, networks, and other network security appliances and software
- Recognize networking standards, protocols, and the OSI model
- Identify and describe security measures for different types of network attacks, operating systems, software, databases, websites, social engineering and physical security
- Apply computer forensics, data acquisition, analysis, tools, and crime scene investigation and documentation requirements for corporate or legal testimony
- Explain the function of cryptography and encryption to secure data, public key infrastructure, hashing, and digital signatures along with other data protection techniques
- Create an effective security policy and disaster recovery plan, addressing business requirements related to confidentiality, integrity and availability