

Bachelor of Science

Cybersecurity

CIP code 430403
 120 credit

Program Description

The Bachelor of Science in Cybersecurity equips students with the practical and conceptual means to understand and navigate today's vast digital security landscape. This expansive program focuses on the National Initiative for Cybersecurity Education (NICE) identified skill sets for the Cybersecurity workforce. The curriculum aligns a wide variety of courses with the technical, legal, social, and investigatory aspects of digital security. Students will emerge with the competencies necessary to compete in a growing global market that demands highly skilled Cybersecurity professionals. A choice between elective courses or a targeted Network Security concentration enables students to select a range of career paths that fits their interests and goals.

Learning Outcomes

Graduates of the Cybersecurity program will have demonstrated proficiency in the following areas:

- Techniques used to protect the integrity of an organization's security architecture and safeguard its data against attack, damage or unauthorized access
- Design and develop IT risk and cybersecurity programs using industry frameworks and methodologies
- Knowledge of cybersecurity regulatory environment and ethics
- Monitor and assess cloud assets and resources for misconfigurations and non-standard deployments
- Meeting the challenges of evolving cyber network threats

The Cambridge College Cybersecurity program is designed to provide the requisite skills and knowledge-base for successful graduates to sit for the following certifications: CompTIA (Cybersecurity Analyst) CSA, CompTIA (Information Security Specialist) Security+.

Careers and Further Study

A Bachelor's Degree in Cybersecurity from Cambridge College qualifies you for in-demand positions such as:

- Information Security Manager
- · Cybersecurity Analyst
- Cybersecurity Consultant
- · Network Administrator
- · Security and Risk Compliance Analyst
- IT Auditor
- Penetration and Vulnerability Tester

Degree completion: General education requirements may be satisfied by an associate's degree or 60 credits of prior courses that meet all general criteria for transfer; up to 90 credits may be accepted.

General Education42 creditsSee Undergraduate Course Descriptions on page 88.LRN 175Principles & Processes of Adult Learning	
CTH 225 MAT 101 CMP 130 CMP 230	Foundations of Critical Thinking
WRT 102 MAT 102	College Writing II
WRT 101-102 and MAT 101-102 may by waived if equivalent courses have been accepted in transfer. Credits will be replaced with open electives. WRT 201 required if both WRT 101-102 are waived; not required for students completing WRT 101-102 at Cambridge. WRT 090 and MAT 100 required if assessment indicates need.	
Arts & Humanities	
Open Electives	
-	ecurity Major 42 credits
	ses
CMP 250	Fundamentals of Cybersecurity
CMP 255 CMP 260	Information Security Foundations EndPoint & Infrastructure Security
CMP 270	Operating Systems, Applications & Services
CMP 280	Network Security and Communications
CMP 300	Digital Forensics
CMP 341	Incident Response
CMP 350	Cybersecurity Communications
CMP 390	Emerging Technologies
Network Security Concentration 15 credits	
CMP 400	Cloud Networking Security
CMP 401	Wireless Technology & Security
CMP 415	Network & Digital Forensics Investigation
CMP 435	Network Protection & Threat Monitoring
CMP 450	Machine Learning for Network Intrusion Detection

All courses 3 credits except as noted

