

Bachelor of Science

Cybersecurity

CIP code 430403
 120 credits

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 Education	
See <i>Under</i>	rgraduate Course Descriptions on page 92.
LRN 175	Principles & Processes of Adult Learning3
WRT 101	College Writing I
CTH 225	Foundations of Critical Thinking3
MAT 101	College Math I
CMP 130	Introduction to Computer Applications
CMP 230	Digital Literacy
WRT 102	College Writing II
MAT 102	College Math II
have been electives. \ required fo	102 and MAT 101-102 may by waived if equivalent courses accepted in transfer. Credits will be replaced with open NRT 201 required if both WRT 101-102 are waived; not or students completing WRT 101-102 at Cambridge. and MAT 100 required if assessment indicates need.
Natural &	Physical Sciences 6 ences 6
Open El	ectives 36 credits
	ectives and/or concentrations to support your academic nd professional goals.
Cyberse	curity Major 42 credits
-	ses
CMP 250	Fundamentals of Cybersecurity
CMP 255	Information Security Foundations
CMP 260	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
Networl	k Security Concentration 15 credits
CMP 400	Cloud Networking Security
CMP 401	Wireless Technology & Security
CMP 401 CMP 415	Wireless Technology & Security Network & Digital Forensics Investigation

All courses 3 credits except as noted

