Cybersecurity Programs



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. Two distinct concentrations enables students to select a range of career paths that fits their interests and goals.

Program 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 cyber security 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.

Genera	Education 42 credits				
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				
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 & Humanitie	es	 	 	 	6
Natural & Physica	al Sciences .	 	 	 	6
Social Sciences		 	 	 	6

Choose electives and/or concentrations to support your academic interests and professional goals.

Cyberse	42 credits	
Core cours	27 credits	
CMP 250	Fundamentals of Cybersecurity	

CMP 255 Information Security Foundations
CMP 260 EndPoint & Infrastructure Security

OWI 200 End out & initiastructure Security

CMP 270 Operating Systems, Applications & Services

CMP 280 Introduction to Computer & Network Security Essentials

CMP 300 Digital Forensics

CMP 341 Incident Response

CMP 350 Cybersecurity Communications

CMP 390 Emerging Technologies

Choose one concentration:

Network Security

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

Information Security & Risk Management

CMP 302 Cybersecurity Governance Frameworks

CMP 323 Digital Law - Policies, Regulations, Ethics

CMP 331 Cybersecurity Audit & Risk Management

CMP 455 Protecting and Handling Data

CMP 460 Risk Response & Monitoring

All courses 3 credits except as noted

