Cybersecurity Programs

Pre-Baccalaureate Certificate

Information Security & Risk Management Certificate

• CIP code 111003 • 27 credits, 3 terms

Program Description — The Information Security & Risk Management Certificate consists of 9 online or on-site courses focused on providing every student with a solid foundational knowledge of how to identify, quantify, respond and maintain IT risk, business continuity, regulatory and compliance protocols for an organization.

Learning Outcomes — Upon completion of the Information Security & Risk Management certificate, students will be able to:

- Identify and evaluate cyber security risks and threats
- Discern the risk appetite of an organization or business
- Design and develop IT risk and cyber security programs using industry frameworks and methodologies
- Understand the legal, policy and regulatory implications for cybersecurity
- Formulate an effective communication strategy by acquiring, evaluating, organizing, managing, and interpreting information

Careers — Graduates of the Information Security & Risk Management Certificate program will be prepared for employment in a variety of industries including Healthcare, Manufacturing, Financial Services, Government Agencies, Education, and Retail. An Information Security and Risk Management Certificate from Cambridge College qualifies you for in-demand positions, such as:

- Cybersecurity Analyst
- IT Audit and Risk Manager
- Security Consultant
- Security Operations Center (SOC) Analyst
- Security & Risk Compliance Analyst
- Cybersecurity Specialist

Courses can be taken online or on-site.

Courses	27 credits
Term 1	Spring
Introduction to Cybersecurity	
CMP 250	Fundamentals of Cybersecurity
CMP 255	Information Security Foundations
CMP 280	Introduction to Computer and Network Security Essentials
Term 2	
Governance, Risk & Compliance	
CMP 302	Cybersecurity Governance Frameworks
CMP 323	Digital Law - Privacy Policies, Regulations, Ethics
CMP 331	Cybersecurity Audit & Risk Management
Term 3	
CMP 350	Cybersecurity Communications
CMP 455	Protecting and Handling Data
CMP 460	Risk Response & Monitoring

Pre-Baccalaureate Certificate

Network Security Certificate

• CIP code 111003 • 27 credits, 3 terms

Program Description — The Network Security Certificate provides students with a solid foundational knowledge of network operating systems, network security, digital forensics, and incident response methods.

Learning Outcomes — Upon completion of the Network Security certificate, students will be able to:

- Analyze network and data traffic
- Build simple Local Area Networks (LAN)
- Establish disaster recovery strategies
- Implement and troubleshoot Access control list for Pv4 and IPv6 networks
- Explore network security tools
- Monitor networks for security breaches
- Install, configure and test security hardware and software tools with supporting documentation such as port scanners

Careers — Graduates of the Network Security Certificate program will be prepared for employment in a variety of industries including business, education, healthcare, government, insurance, manufacturing, and retail. Employment opportunities include but are not limited to Computer Network Defense Analyst, Computer Network Defense Infrastructure Support, Computer Network Support Specialist, Network Administrator, Penetration Tester, Red Team Technician, and Systems Administrator.

Courses can be taken online or on-site.

Courses	27 credits
Term 1	Spring
Introduction to Networking Basics	
CMP 250	Fundamentals of Cybersecurity
CMP 280	Introduction to Computer and Network Security Essentials
CMP 205	Basic Network Troubleshooting
Term 2	Fall

Network ManagementCMP 260EndPoint & Infrastructure SecurityCMP 400Cloud Network SecurityCMP 401Wireless Technology & Security

Term 3SpringProtecting & Network MonitoringCMP 415CMP 435Network & Digital Forensics InvestigationCMP 435Network Protection & Threat MonitoringCMP 450Machine Learning for Network Intrusion Detection

All courses 3 credits except as noted.

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