

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	
	Term 1	Spring
	Introduction	n to Networking Basics
	CMP 250	Fundamentals of Cybersecurity
	CMP 280	Network Security and Communications
	CMP 205	Basic Network Troubleshooting
	Term 2	Fall
Network Management		
	CMP 260	EndPoint & Infrastructure Security
	CMP 400	Cloud Network Security
	CMP 401	Wireless Technology & Security
	Term 3	Spring
	Protecting	& Network Monitoring
	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.