NICOLET COLLEGE

IT Security
Technical Certificate

The IT Security Certificate provides students an understanding of Cybersecurity fundamentals, Cybersecurity operations and implementing network security. This certificate will allow a student to identify the threats, monitor and analyze those threats, and configure network solutions to eliminate and avoid network security threats. Topics discussed will be Threat analysis, Network Intrusion analysis, Incident response, security concepts, Secure access, Virtual Private Network access (VPN), secure routing and switching techniques, Firewall concepts and Intrusion prevention. The certificate prepares students for the CCNA Security and CCNA CyberOPS certifications.

Program Outline

TERM 1

Course #	Course Title	Credits
1015011400	Network+ Fundamentals This course explores network cabling and hardware devices, switching and routing, security, addressing, Ethernet and wireless, LANs and WANs, operations and management, and optimization and troubleshooting. This course is aligned with the CompTIA Network+ (N10-008) certification exam.	3.00
1015114000	IT Security This course explores the threats, attacks, and vulnerabilities to an organization's devices, applications, and infrastructure throughout the enterprise. Tools, techniques, and technologies will further the exploration that help assess, secure, and monitor organizational assets as well as respond, investigate, and recover from incidents. This course is aligned with the CompTIA Security+ certification exam.	3.00
1015013000	CCNA Networking 1 This course explores enterprise networking concepts, Cisco devices, IPv4 and IPv6 addressing, switching, and IPv4 and IPv6 routing. This course is the first of two aligned with the Cisco CCNA (200-301) certification exam.	3.00
1015014500	CCNA Networking 2 This course explores enterprise networking wireless networks, WAN implementation, advanced switching, access control lists (ACLs), management, security, and cyptography. This course is the second of two aligned with the Cisco CCNA (200-301) certification exam.	3.00
1015113000	Cybersecurity Analyst This course explores security vulnerability assessment and management, threat intelligence and hunting, system and network architecture, vulnerability assessments, network security and management, host-based attacks, and post-attack response. This course is aligned with the CompTIA Cybersecurity Analyst (CS0-003) certification exam. Prerequisite: 1015114000 IT Security (C or better).	3.00
1015113500	Ethical Hacking This course explores security penetration testing, system hacking, malware and sniffers, reconnaissance and enumeration, session hijacking and DoS, firewalls and honeytpots, SQL injections and cryptography, and more. This course is aligned with the EC-Council Certified Ethical Hacker certification exam. Prerequisite: 1015114000 IT Security (C or better).	3.00

Total Credits: 18.00

Talk with a Success Coach about the program outline. Together, you will determine if credits you've already earned satisfy any requirements, discuss possible alternative courses, and choose the best classes if you're thinking of transferring.

How You'll Learn

Term Start Dates

Summer 2024: May 6 | **Fall 2024:** August 26 | **Spring 2025:** January 13

Start dates represent the beginning of a new term. Certain programs or courses may not be available to start every term. Please view the [course schedules](#) for a list of upcoming classes or contact the Welcome Center at 715-365-4493.

VIEW FULL ACADEMIC CALENDAR

Program Tuition*

$3,254

Books & Supplies*

$172

*Total cost for degree completion is estimated by current course requirements, books, and supplies. Tuition and fees are set by the Wisconsin Technical College System and subject to change.

What You'll Learn

- Implement Cybersecurity Operations
- Implement a secure network infrastructure

Your Potential Careers

- Info Security Analyst
- Computer Network Support Specialist
- Computer Systems Analyst
- Information Assurance Analyst

- Security Systems Administrator
- Security Analyst
- Security Specialist

Median Annual Salary

$73,624	$79,733	$91,500
Local	State	National

Lightcast 2023.1

Get Started

Your application can be submitted online, it takes just a few minutes to complete.

APPLY NOW