NICOLET COLLEGE

IT Network Technician
Technical Diploma

The IT Network Technician Technical Diploma is designed to give the student the skills necessary to support Local Area Networks. With this diploma the student will be able to manage, configure and troubleshoot common network infrastructure issues, to include network switching, IP routing, IP services, network device security, and acquire a solid foundation in IP addressing. This diploma will prepare the student for the Cisco Certified Entry Network Technician (CCENT) exam 100-101 ICND1.

Program Outline

TERM 1

Course #	Course Title	Credits
1015110500	**Digital Literacy with Cyber Security** This course will cover identifying and differentiating between major computer components, Microsoft Windows operating system and application operations, computing environment issue troubleshooting, making connections between office network devices, file management, and basic cybersecurity threats and best practices.	1.00
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
1015015000	**Windows Client** This course explores enterprise client operating system installation, configuration, performance, access, management, and protection. This course is aligned with the Microsoft 365 Certified: Endpoint Administrator Associate certification exams. Prerequisite: 1015414000 A Plus Computer Essentials (C or better).	3.00
1015018000	**Windows Hybrid Server Core Infrastructure** This course explores enterprise server operating system on-premises server, cloud and Azure concepts, IP address management, DNS implementation, Active Directory, Group Policy, hybrid server and workload management, storage and file service managment, virtualization and containers, and network connectivity. This course is aligned with the Microsoft AZ-800: Administering Windows Server Hybrid Core Infrastructure certification exam. Prerequisites: 1015011400 Network Plus Fundamentals (C or better) and 1015015000 Windows Client (C or better) (concurrent enrollment allowed).	3.00
1015414000	**A+ Computer Essentials** This course explores computer hardware, operating systems, software, networking, troubleshooting, virtualization, and security concepts. This course is aligned with the CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) certification exams.	3.00

TERM 2

Course #	Course Title	Credits

Course #	Course Title	Credits
1080413400	**Mathematical Reasoning** An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course is not designed for Science, Technology, Engineering, or Math (STEM) students and/or others who require calculus. Prerequisite: 7785478000 Principles of College Math (C or better) or Accuplacer Algebra score >=35 or UW Math Placement Basic Math Skills score >=250 or ACT Mathematics score >=18 or Tailwind Math College Math Fund score >=16.	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. Prerequisite: 1015011400 Network Plus Fundamentals (C or better).	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. Prerequisite: 1015013000 CCNA Networking 1 (C or better).	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

Total Credits: 25.00

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.

At A Glance

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*

$4,586

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.

▶ **Potential Indirect Costs**

What You'll Learn

- Support basic computer networks
- Support client systems
- Utilize network operating systems
- Apply basic IT security principles

Your Potential Careers

- Information Technology Network

Median Annual Salary

$60,499	$62,443	$62,839
Local	State	National

Lightcast 2023.1

Get Started

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

APPLY NOW