

Program Description

The Computer Network Administration Diploma program is an exciting track offered by Central Lakes College. Coursework includes general networking technologies, network troubleshooting, operating system technologies, disaster recovery, computer repair, and security fundamentals. This program covers an overview of networking technologies that graduates can expect to work with in small to mid-size organization settings and delivers curriculum using current industry software, including Operating System (OS), Network Operating System (NOS) and other applications. CLC’s information technology (IT) instructors are industry certified professionals with multiple years of experience in their respective disciplines both in the classroom and in industry.

Career Opportunities

Computer network administrators design, install, and support an organization's network infrastructure. They may also plan, coordinate, and direct the computer-related activities of an organization, making sure all parts of a computer network work to meet the organization's goals. Finally, computer network administrators provide day-to-day support for software users and direct the work of other computer specialists such as analysts, programmers, and technicians. This program will help students prepare for careers in networking such as MCSE, MCSA, network administrator, network engineer, systems analyst, location area network (LAN) administrator, wide area network (WAN) administrator, network security specialist and systems engineer.

Program Outcomes

By completing this program, students will achieve the following learning outcomes:

- Perform computer information technology practices and procedures required for entry to mid-level employment;
- Perform computer information technology entry to mid-level skill sets and apply theoretical principles;
- Install, manage, configure and use functions and features of current releases of operating systems, network operating systems and applications;
- Install, troubleshoot and repair computer equipment and peripherals;
- Test successfully on competencies required to pass industry certification exams;
- Locate, evaluate and properly utilize the tools and resources appropriate to a computer technology professional;
- Evaluate, identify and apply appropriate security standards;
- Communicate effectively with technical and non-technical audiences.

Program Course Requirements

COMP 1109	Introduction to Operating Systems	3 cr
COMP 1120	Introduction to Computer Applications	3 cr
COMP 1204	Computer Repair I – A+ Hardware.....	4 cr
COMP 1206*	Computer Repair II –A+ Operating Systems	3 cr
COMP 1230*	Network Essentials	4 cr
COMP 1253*	Client Operating Systems Administration.....	4 cr
COMP 2111*	Security Essentials	4 cr
COMP 2115*	Command Line PowerShell Administration.....	4 cr
COMP 2150*	Windows Server Administration I.....	5 cr
COMP 2151*	Windows Server Administration II.....	5 cr
COMP 2152*	Windows Server Administration III.....	5 cr
ENGL 1422	Practical Writing (Goals 1,2).....	3 cr

Students must also select a minimum of one (1) additional credit from any course with a COMP prefix. One of the following courses is recommended:

COMP 1121*	Advanced Computer Applications	3 cr
COMP 1134	Microsoft Outlook Comprehensive.....	1 cr
COMP 2160*	Ethics in IT	3 cr
COMP 2213*	Computer Careers Internship.....	1-6 cr

GRADUATION REQUIREMENT - 48 CREDITS

*Denotes Prerequisites

Semester Course Requirements

Semester One (11 credits)

COMP 1109	Introduction to Operating Systems.....	3 cr
COMP 1120	Introduction to Computer Applications	3 cr
COMP 1204	Computer Repair I – A+ Hardware.....	4 cr
	Additional COMP course	1 cr

Semester Two (11 credits)

COMP 1206*	Computer Repair II –A+ Operating Systems	3 cr
COMP 1230*	Network Essentials.....	4 cr
COMP 1253*	Client Operating Systems Administration.....	4 cr

Semester Three (12 credits)

COMP 2115*	Command Line PowerShell Administration.....	4 cr
COMP 2150*	Windows Server Administration I.....	5 cr
ENGL 1422	Practical Writing	3 cr

Semester Four (11 credits)

COMP 2111*	Security Essentials	4 cr
COMP 2151*	Windows Server Administration II.....	5 cr
COMP 2152*	Windows Server Administration III.....	5 cr

Course Prerequisites

Some courses may require appropriate test scores or completion of basic math, basic English and/or reading courses with a “C” or better. CLC utilizes a multiple measure approach for placement which may include high school MCA, SAT, ACT scores in addition to high school GPAs. For insurance purposes, internships may require that students be 18 years old.

Career Certification

This program will prepare students for the following certifications: Microsoft Certified Systems Engineer (MCSE), Microsoft Certified Systems Administrator (MCSA), Microsoft Certified Professional (MCP), Microsoft Certified Desktop Support Technician (MCDST), CompTIAA+, Network+, Server+, Security+, and others. Central Lakes College is a Prometric, VUE, and Certiport Authorized Test Center. All certification exams can be delivered on-site.

Graduation Requirements

In addition to the program requirements, students must meet the following conditions in order to graduate:

1. College Cumulative GPA Requirement: cumulative grade point average (GPA) of credits attempted and completed at CLC must be at least 2.0;
2. College Technical Core GPA Requirement: cumulative GPA of credits attempted and completed towards the technical core of the diploma or degree must be at least 2.0;
3. Residency Requirement: students must complete 25% of their credits at Central Lakes College.