

NETWORK ADMINISTRATION (A.A.S)

CCV's Network Administration program teaches you how to design, build and maintain local and wide area networks. Successful completion of four Cisco networking courses prepares you for the CCNA (Cisco Certified Networking Associate) or CCENT (Cisco Certified Entry Network Technician) industry certification exams. In addition to Cisco networking, you learn how to support computer users and troubleshoot computer problems. Courses in hardware, programming, Windows and Linux will help you build your knowledge in hardware and software, and two focus areas allow you to further expand your skills in web development or database management.

Upon completion of the program, you will also be prepared for the CompTIA A+, Linux+ and Network+ certification exams. Graduates of this program meet the needs of employers who seek to hire entry-level personnel with strong networking and troubleshooting skills.

PROGRAM REQUIREMENTS

- CIS-1311 - Cisco I: Network Fundamentals (4 cr)
- CIS-1312 - Cisco II: Routing Protocols & Concepts (4 cr)
- CIS-1313 - Cisco III: LAN Switching & Wireless (4 cr)
- CIS-1314 - Cisco IV: Accessing the WAN (4 cr)
- CIS-1350 - Desktop Operating Systems (4 cr)
- CIS-2110 - Concepts of PC Hardware (4 cr)
- CIS-2150 - Introduction to Linux
- CIS-2152 - Intermediate Linux
- CIS-2360 - Computer User Support*
- CIS-2125 - Windows Server Administration
- CIS-(2031, 2140 or 2271) - Introductory programming course _____
- CIS-2245 - Concepts of Computer Security
- CIS-2860 - Community & Work Experience

Select one of the following focus areas:

Web Focus

- CIS-1151 - Website Development
- CIS-2272 - Intermediate Java programming *or*
CIS-2430 - Web Application Programming

Database Focus

- CIS-1038 - Introduction to Database Management (1 cr)
- CIS-1360 - Intermediate Database Management
- CIS-2340 - SQL Database Administration

*You may use a course to meet both a program requirement and a general education requirement; however, you may not use a single course to meet two general education requirements.

GENERAL EDUCATION REQUIREMENTS

Core Competencies

- English Composition
 - Communication
Meets graduation standard in oral communication
CIS-2360 - Computer User Support
 - Research & Writing Intensive
ENG-2050 - Global Issues in the Media
 - Mathematics
-
- Scientific Method
-
- Seminar in Educational Inquiry
Meets graduation standard in writing & information literacy
 - Quantitative Reasoning Assessment
Meets graduation standard in quantitative reasoning



MINIMUM TOTAL CREDITS IN DEGREE: 66

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Network Administration Program Outcomes

Successful graduates will be able to:

- demonstrate knowledge and skills that meet industry standards and CCNA and CCENT certification requirements in the use of routers and network administration technology;
- demonstrate knowledge and skills that meet industry standards and CompTIA A+ certification requirements in the use of computer hardware and operating systems technology;
- use a computer programming language to solve problems in a workplace setting and implement appropriate solutions;
- work effectively as part of an information technology team and provide appropriate solutions;
- demonstrate proficiency in the development and administration of database systems or web sites to support workplace needs;
- demonstrate academic skills required of all CCV graduates, including competency in writing, information literacy, oral communication, quantitative reasoning; and
- explore pathways for educational and career development in the student's field of study.

How Our Degree Works

CCV's Network Administration program teaches you how to design, build and maintain local and wide area networks. Successful completion of the program prepares you for the widely recognized Cisco CCNA and CCENT certification exams. In addition you will learn how to: install and configure operating systems; build and maintain computers; support computer users; troubleshoot computer problems; and develop web sites or manage databases. Upon completion of the program you'll be prepared to begin an exciting career in the field of networking and computer troubleshooting.

Why Our Degree Works

CCV offers courses using current hardware, software and learning technologies that prepare you for a number of industry certifications. Many of our courses are offered online or in hybrid format, using a combination of distance learning with classroom-based labs. By including a variety of learning environments from classroom-based courses, to distance education and community and work experience, CCV's degree prepares you for a successful career in information technology.

Career Opportunities

CCV graduates are employed as assistant network administrators, network technicians and computer support specialists for Internet service providers and other employers. The high tech skills covered in the degree program allow you to enter the field of computer networking or to pursue a baccalaureate degree in engineering, programming or information management.

Transfer Options

CCV has articulation agreements with Champlain College, University of Vermont, and Marlboro College. CCV advisors can help you select courses that will transfer to your four-year program.

"I use what I learned in my Cisco class every day at work. It has proven invaluable to my current job."

*James Nye, CCV graduate,
Systems Engineer,
Cisco/Cognizant*

**For more information
visit www.ccv.edu,
or call your
local CCV office.**

CCV is committed to non-discrimination in its learning and working environments for all persons. All educational and employment opportunities at CCV are offered without regard to race, color, gender, sexual orientation, religion, national origin, age, veteran status, or disability.