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 Cisco Certified Networking Associate (CCNA) or Cisco Certified Entry Network Technician (CCENT) 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.

All associate degrees include completion of general education requirements which, together with program requirements, constitute a minimum of 60 credits. In some cases program requirements also fulfill general education requirements. You may not use a single course to meet two general education requirements.

General Education Requirements for A.A.S.	Program Requirements	
Core Competencies	Courses are listed in the order in which we recommend	
Complete at least one course in each of the following:	you take them.	
	☐ CIS 1350 - Desktop Operating Systems	
☐ First semester seminar	☐ CIS 2110 - Concepts of PC Hardware	
☐ Technological Literacy	☐ CIS 1311 - Cisco I: Introduction to Networks	
CIS 1151 - Website Development	☐ CIS 2360 - Computer User Support *	
or	☐ CIS 2150 - Introduction to Linux	
CIS 1360 - Database Management Systems	☐ CIS 1312 - Cisco II: Routing & Switching Essentials	
☐ Communication	☐ CIS 2152 - Intermediate Linux	
CIS 2360 - Computer User Support	☐ ENG 2135 - Technical Writing & Research*	
Meets graduation standard in oral communication	☐ CIS 2125 - Windows Server Administration	
☐ English Composition	☐ CIS 2031 or CIS 2140 or CIS 2210 or CIS 2271 -	
ENG 1061 - English Composition	Introductory programming course	
☐ Mathematics	☐ CIS 1313 - Cisco III: Scaling Networks	
	☐ CIS 2245 - Concepts of Computer Security	
☐ Research & Writing Intensive ENG 2135 - Technical Writing & Research	☐ CIS 1314 - Cisco IV: Connecting Networks	
LING 2133 - Technical Willing & Research	☐ INT 2860 - Professional Field Experience	
Areas of Inquiry	or BUS 2010 - Concepts of Project Management	
Complete at least one course in each of the following:		
☐ Scientific Method	Select one of the following focus areas:	
	Web Focus	
Integrative Approaches	☐ CIS 1151 - Website Development *	
Complete both the following:	☐ CIS 2272 - Intermediate Java Programming	
☐ HUM 2010 -Seminar in Educational Inquiry	or CIS 2430 - Web Application Programming	
Meets graduation standard in writing and information literacy	Database Focus	
	☐ CIS 1360 - Database Management Systems *	
☐ Quantitative Reasoning Assessment Meets graduation standard in quantitative reasoning	☐ CIS 2340 - SQL Database Administration	
meets graduation standard in quantitative reasoning	Note(s)	
	*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.

Minimum Total Credits in Degree: 69

Program Outcomes

Graduates of the Network Administration program 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;
- 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, and quantitative reasoning; and
- explore pathways for educational and career development in the student's field of study.

The Network Administration program is great for you if:

- you have a strong interest in computers;
- you are primarily interested in networking with a focus on Cisco;
- you would rather work behind the scenes, with distributors more than end users; and
- you can handle an intensive course-completion format.

Key information and advice for students in the Network Administration program:

- This program can be completed entirely online with the exception of the Cisco courses and one classroom meeting for Concepts of PC Hardware.
- · Cisco courses are available in Winooski.
- Students will learn to design, build, and maintain local and wide area networks.
- Students will be prepared for the Cisco CCNA and CCENT certification exams.
- Students will be prepared to begin an exciting career in the field of networking and computer troubleshooting.

The Network Administration program prepares you for careers such as:

- · Assistant Network Administrator
- Network Technician
- Computer Support Specialist

Job outlook in Network Administration in the state of Vermont:

Title	Median Salary	Projected Growth (10 Yrs)
Assistant Network Administrator	\$59,460	9%
Network Technician	\$69,230	9%
Computer Support Specialist	\$45,010	11%

Source: Vermont Department of Labor, http://www.vtlmi.info/index.cfm