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. Core Competencies		Program Requirements	
		Courses are listed in the order in which we recommend	
Complete at least one course in each of the following:		you take them.	
			CIS 1311 - Cisco I: Network Fundamentals
	First semester seminar		CIS 1312 - Cisco II: Routing Protocols & Concepts
	Technological Literacy CIS 1151 - Website Development or CIS 1360 - Database Management Systems		CIS 1313 - Cisco III: LAN Switching & Wireless
			CIS 1314 - Cisco IV: Accessing the WAN
			CIS 1350 - Desktop Operating Systems
			CIS 2110 - Concepts of PC Hardware
	Communication CIS 2360 - Computer User Support Meets graduation standard in oral communication		CIS 2150 - Introduction to Linux
			CIS 2152 - Intermediate Linux
			CIS 2360 - Computer User Support *
	English Composition ENG 1061 - English Composition		CIS 2125 - Windows Server Administration
			CIS 2031 or CIS 2140 or CIS 2271 - Introductory
	Mathematics		programming course
	Research & Writing Intensive ENG 2050 - Global Issues in the Media		CIS 2245 - Concepts of Computer Security
			ENG 2050 - Global Issues in the Media *
			CIS 2860 - Community & Work Experience
Areas of Inquiry		Select one of the following focus areas:	
Complete at least one course in each of the following:		Web Focus	
☐ Scientific Method			CIS 1151 - Website Development *
_	Scientific Method		CIS 2272 - Intermediate Java Programming
Integrative Approaches			or
Complete both the following:			CIS 2430 - Web Application Programming
	HUM 2010 -Seminar in Educational Inquiry	Database Focus	
_	Meets graduation standard in writing and information literacy		CIS 1360 - Database Management Systems *
			CIS 2340 - SQL Database Administration
	Quantitative Reasoning Assessment 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: 68

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