

INFORMATION TECHNOLOGY (A.S.) +

CCV's Information Technology program prepares students for the exciting and ever-changing field of information technology. Technology plays a vital role in all aspects of 21st century life. Organizations need skilled technicians to install, manage, and adapt complex information networks. As companies continue to expand their information systems, IT workers keep communications running smoothly and help to resolve complicated problems. Information technology professionals find employment in a wide array of industries. Our curriculum provides students with foundational skills in networking, programming, and operating systems. Students will build depth of knowledge in at least one of three focus area options: networking, programming, or website development. The program also includes additional elective credits that may be used to explore other facets of this broad field and prepare you for important industry certifications.

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

Core Competencies

Complete at least one course in each of the following:

- First semester seminar _____
INT 1050 - Dimensions of Self & Society
- Technological Literacy
CIS 1100 - Introduction to Computer Science
- Communication _____
CIS 2360 - Computer User Support
Meets graduation standard in oral communication
- English Composition
ENG 1061 - English Composition
- Mathematics _____
- Research & Writing Intensive
ENG 2135 - Technical Writing & Research

Areas of Inquiry

Complete at least one course in each of the following:

- Scientific Method _____
- Human Expression _____
- Human Behavior _____

Integrative Approaches

- Global Perspectives & Sustainability _____
- HUM 2010 - Seminar in Educational Inquiry
Meets graduation standard in writing and information literacy
- 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.

Program Requirements

Courses are listed in the order in which we recommend you take them.

- CIS 1100 - Introduction to Computer Science*
- CIS 1350 - Desktop Operating Systems
- CIS 2120 - Concepts of Local Area Networks
- ENG 2135 - Technical Writing & Research*
- CIS 2360 - Computer User Support*
- CIS 2230 - Systems Administration
- CIS 2245 - Concepts of Computer Security

Select one of three focus areas

Networking:

- CIS 2150 - Introduction to Linux
- CIS 2235 - Advanced Systems Administration

Programming:

- CIS 2271 - Java Programming I *and*
- CIS 2272 - Intermediate Java Programming
or
- CIS 2031 - C/C++ Programming I *and*
- CIS 2032 - C/C++ Programming II

Website Development:

- CIS 1151 - Website Development
- CIS 1152 - Advanced Website Development

Electives: 6-7 credits _____

Minimum Total Credits in Degree: 60

+ This program can be completed fully online.

Program Outcomes

Graduates of the Information Technology program will be able to:

- demonstrate knowledge and skills that meet industry standards;
- use a computer programming language to solve problems and implement appropriate solutions;
- upgrade, maintain, and install software applications with emphasis on problem anticipation and user support;
- prepare a plan for implementing a network solution in a small business setting;
- 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.

The Information Technology program is great for you if:

- you enjoy working with programming and computer systems;
- you are looking for a career in user support, software programming, network administration or web development;
- you plan to matriculate to an IT-related bachelor's degree;
- you have good customer service and communication skills; and
- you are prepared to work in a dynamic and changing work environment.

Key information and advice for students in the Information Technology program:

- The Information Technology degree provides practical experience with networks and information systems.
- This program provides skills necessary to be a computer support specialist in a small business or any environment that uses computers in its daily operations.
- This program can be completed entirely online.
- Students may elect to prepare for various CompTIA certification exams such as IT Fundamentals, A+, Net +, Security +, Linux +, and Server +.
- This program fits easily into most IT-related bachelor's degrees and allows for more specialization in IT at the 3rd and 4th year levels.

The Information Technology program prepares you for careers such as:

- Computer Support Specialist
- Assistant Network Administrator
- Programmer
- Web Developer

Job outlook in Information Technology in the state of Vermont:

<i>Title</i>	<i>Median Salary</i>	<i>Projected Growth (10 Yrs)</i>
Computer Support Specialist	\$45,010	11.2%
Computer Security Specialist (bachelor's degree)	\$59,470	11.2%
Software Analyst (bachelor's degree)	\$73,440	9.8%

Source: Vermont Department of Labor, <http://www.vtmi.info/oic.cfm>