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.

# 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	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.
☐ First semester seminar	☐ CIS 1100 - Introduction to Computer Science*
INT 1050 - Dimensions of Self & Society	☐ CIS 1350 - Desktop Operating Systems
☐ Technological Literacy	☐ CIS 2120 - Concepts of Local Area Networks
CIS 1100 - Introduction to Computer Science	☐ ENG 2135 - Technical Writing & Research*
☐ Communication	☐ CIS 2360 - Computer User Support*
CIS 2360 - Computer User Support	☐ CIS 2230 - System Administration
Meets graduation standard in oral communication	☐ CIS 2245 - Concepts of Computer Security
☐ English Composition	
ENG 1061 - English Composition	Select one of three focus areas
☐ Mathematics	Networking:
☐ Research & Writing Intensive	☐ CIS 2150 - Introduction to Linux
ENG 2135 - Technical Writing & Research	☐ CIS 2235 - Advanced System Administration
	Programming:
Areas of Inquiry	☐ CIS 2261 - Introduction to Java I and
Complete at least one course in each of the following:	☐ CIS 2262 - Introduction to Java II
☐ Scientific Method	or
☐ Human Expression	☐ CIS 2031 - C/C++ Programming I and
☐ Human Behavior	☐ CIS 2032 - C/C++ Programming II
Integrative Approaches	Website Development:
☐ Global Perspectives & Sustainability	☐ CIS 1151 - Website Development
☐ HUM 2010 - Seminar in Educational Inquiry	☐ CIS 1152 - Advanced Website Development
Meets graduation standard in writing and information literacy	,
	Electives: 6-7 credits
☐ Quantitative Reasoning Assessment	Licenves. 6 / Cicuits
Meets graduation standard in quantitative reasoning	
	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 and demostrate preparedness 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

Programmer

· Assistant Network Administrator

Web Developer

For up-to-date Vermont labor market information, including salary information and growth projections, view the Economic and Labor Market Information on the Vermont Department of Labor Website http://www.vtlmi.info/.