



# Information Technology Syllabus

Phone: 802-295-8630 [www.HACTC.com](http://www.HACTC.com)

## Information Technology Course Description:

In this program students will do substantial hands-on work to prepare them for a career in the Information Technology industry. All of our programs here at the HACTC emphasize learning that prepares you for the real world. Like our highly successful HACTC STEM program, we anticipate using *Project Lead the Way* curriculum plus engaging computer simulations to prepare students for entry into the workforce or for college courses in Information Technology.

HACTC's Information Technology program is comprised of two one-year programs: Information Technology and Advanced Information Technology. Students will have the option to take one year or both years of the program.

Information Technology will introduce students to the nuts and bolts of the Information Technology world. They will start with visual, block-based programming, move into text-based programming, and finally will work on networking computers. Students will learn to work together, as computing professionals do, to create products that address topics and problems important to them.

In Advanced Information Technology, students will utilize multiple platforms and programming languages as they develop their programming skills, generate excitement about IT career paths, and explore the workings of the Internet. They will also delve into Cybersecurity, getting a broad exposure to the many aspects of digital and information security, while learning socially responsible choices and ethical behavior.

We have been working closely with cybersecurity experts at Norwich University, as well as industry experts, to develop this program, and are excited to continue these relationships as we officially begin the program in the fall of 2022.

According to the Bureau of Labor Statistics, computer and Information Technology occupations are projected to grow 12% from 2020 to 2030, faster than the average for all occupations. Nationally, the median salary for computer occupations is \$91,250. Additionally, there are a lot of Information Technology jobs available in Vermont and New Hampshire. For example, the Vermont Technology Alliance currently has 250 open jobs posted!

The HACTC is currently in the process of hiring a new Information Technology instructor this year, so much of the program's syllabus is currently pending and will be updated just as soon as we have an instructor in place.

## Industry Recognized Credentials, Articulation Agreements and Concurrent Enrollments:

All are currently pending and will be updated as soon as possible.

## Common Standards Assessed in Every Program:

**Communication:** ESS02.01 Select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary in practice.

**Leadership and Teamwork:** ESS07.03 Employ teamwork skills to achieve collective goals and use team members' talents effectively.

**Technical Skill:** ESS10.01 Employ information management techniques and strategies in the workplace to assist in decision-making.

**Problem Solving/Critical Thinking:** ESS03.01 Employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate).

## Grading Categories and Weights:

Communication	25%
Leadership & Teamwork	25%
Problem Solving/Critical Thinking	25%
Technical Skill	25%
Total	100%

**Respect. Engage. Learn. Work. Serve. Grow.**