

# Software Engineer

Students who complete 2 credits in this pathway will meet their state graduation pathway through the CTE Sequence option.



The **Software Engineer Program of Study** seeks to prepare students for various careers that require an understanding of computer programming. Students will learn how people use computers to create, communicate, and simplify complex tasks. Additionally, students will learn about the opportunities and risks inherent in the digital world and how to navigate both successfully.

Is this program a fit for you?

- Are curious and desire to figure out why and how things work
- Enjoy designing and building things
- Enjoy developing and analyzing various solutions to problems
- Are interested in continuing your education in Engineering, Computer Science, or other STEM fields

## High School Opportunities

## After High School Options

## Careers

### Courses

- Technology Fundamentals
- Computer Programming I
- Computer Programming II
- AP Computer Science

### Additional Possibilities

- FBLA & DECA
- Lead - Scott Feil

### Career Connected Learning

- Job Shadows/Internship
- Career Exploration Field Trips

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### Certificates

- CompTIA A+
- CompTIA Security+
- CompTIA Network+

### 2 year option

- Mechatronics, Robotics, and Automation Engineering
- Pre-Engineering
- Human Computer Interaction

### 4 year option

- Computer Science
- Information Technology
- Engineering

### Example of Careers and Salary

- Medical Records and Health Information Tech \$38,040
- Aircraft Mechanics \$60,270
- Industrial Design \$67,790
- Computer Programming \$79,840
- Biomedical Engineering \$85,620
- Software Development \$102,280
- Computer Hardware Engineering \$115,080

\*Data Source - Schoolinks

## Program Courses

Program High School Courses	Grades	Equivalencies	CIHS	Dual Credit	Industry Recognized Certificate (IRC)
Technology Fundamentals	9, 10, 11, 12				CompTIA ITF+
Computer Programming I	9, 10, 11, 12			X	YouScience - Computer Science Principles
Computer Programming II	10, 11, 12				YouScience - Computer Programming 1
AP Computer Science	10, 11, 12	Math		X	AP Exam YouScience Computer Programming 2 (JAVA)