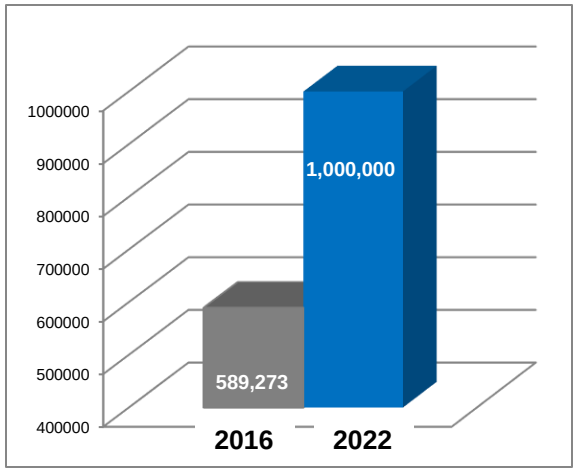
Why Study Computer Science?

"An understanding of computer science is becoming increasingly essential in today's world. Our national competitiveness depends upon our ability to educate our children—and that includes our girls—in this critical field."

-Sheryl Sandberg, **Chief Operating Officer, Facebook**

Currently, there are 589,000 open jobs in the field of computer science/technology. By 2022, the demand will rise to more than 1,000,000!

The Bureau of Labor Statistics predicts 1 million open computing jobs by 2022



Sources: Code.org, Conference Board, Bureau of Labor Statistics

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"Everybody in this country should learn how to program a computer …

… because it teaches you how to think."

- Steve Jobs

Milford Public Schools

Computer Science Career Pathway

Jonathan Law High School
Joseph A. Foran High School

What is the Computer Science Pathway?

A “career pathway” is characterized by concentration in a particular field of study through a sequence of courses which lead to the development of a particular set of knowledge and skills aligned with career interests. The pathway will culminate in a student-driven learning experience.

The Computer Science Pathway will prepare students for training, college, and careers in computer science fields.

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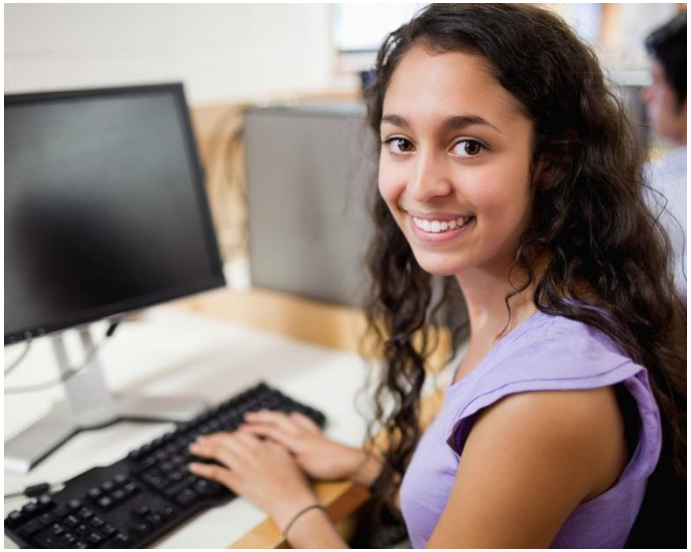
Computer Science Career Pathway Overview



Starting with the Class of 2020, high school students in the Milford Public Schools can elect to participate in the Computer Science Career Pathway. The Computer Science Career Pathway consists of both required and elective courses.

Completion of the Computer Science Pathway requires a minimum of 3.0 high school credits in computer science courses, including the two required courses: *Introduction to Computer Science* (0.5 credits) and the *Capstone Project* (0.5 credits), in addition to 2.0 elective credits in Computer Science.

Courses Offered

Course Title	Credits	Level	Grades
Introduction to Computer Science	0.5	ES	9, 10, 11, 12
Robotics 1	0.5	ES	9, 10, 11, 12
Robotics 2	0.5	ES	9, 10, 11, 12
Computers, Electronics, and Programming	0.5	ES	11, 12
AP Computer Science Principles	1.0	AP	10, 11, 12
AP Computer Science A	1.0	AP	11, 12
Capstone Project	0.5	--	11, 12