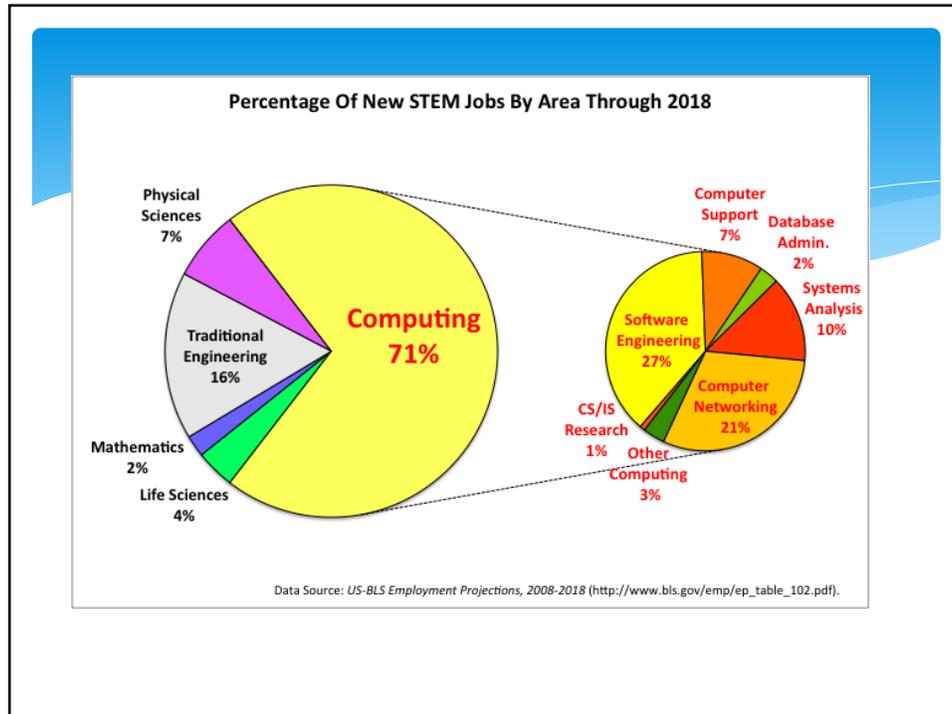


Computer Science Electives

Why take Computer Science?

* [Click Here](#)

“nationwide there is a well-documented shortage of graduates in computer science. The Bureau of Labor Statistics projects that 70 percent of all new jobs across all STEM fields during this decade, across engineering, the physical sciences, the life sciences, and the social sciences, will be in computer science. More than three-quarters of a million new jobs. The field is booming”.
(Seattle Times, May 2013)



Courses to consider

- * Lego Robotics
- * Project Lead the Way – Computer Science Principles
- * AP Computer Science A
- * AP Computer Science Principles

Offered Courses:

Robotics: This one-semester course is open to 8th graders. The students will use LEGO-Mindstorms.

They will learn the fundamentals of robotics and programming in this course. This course is a perfect continuation for those students who worked in the LEGO robotics club at Willets Road. However, you need not have any prior experience to take the class. Beginners are welcome.

Project Lead the Way – Computer Science Principles.

CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include App development, programming in Python and Scratch, and the visualization of data. This course fulfills an elective requirement for the Project Lead the Way Engineering Strand, and is a Pre-requisite for AP Principles.

Full-year Courses

AP Computer Principles– Building upon what was done in the CSP course, the students will continue to explore different programming platforms and the use of computers in society. They will take an AP written exam in May and will have to submit projects to the College Board to be eligible for credit.

AP Computer Programming – Programming at a more advanced level in JAVA. The students will explore the fundamental commands of JAVA. They will manipulate different data structures. They will work at a higher level of Object Oriented Programming. The students will take a written exam in May.

Number of students taking each test in 2013

| | |
|--------------------|---------------|
| * Biology: | 203,189 |
| * Calculus AB: | 282,814 |
| * English Lit: | 385,576 |
| * Spanish: | 134,544 |
| * US History: | 442,890 |
| * World History: | 230,107 |
| | |
| * Computer Science | 31,117 |

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Number of Females taking each test in 2013

| | | |
|---------------------|---------|-------|
| * Biology: | 118,533 | (58%) |
| * Calculus AB: | 135,410 | (48%) |
| * English Lit: | 240,665 | (62%) |
| * Spanish Language: | 83,914 | (62%) |
| * US History: | 235,449 | (53%) |
| * World History: | 124,828 | (54%) |
| | | |
| * Computer Science: | 5,807 | (19%) |

