

# STEVENSON

## Science Placement Requirements Returning Students 2022

Placements for returning students are recommended by the current teacher in cooperation with the student, and ultimately confirmed by the science department.

Grade 10: All grade 10 students at Stevenson take Science 2 or Science 2 Honors. Most take our regular level course, which is Science 2, and a few take Science 2 Honors. Science 2 Honors is available to returning students who are recommended by their teacher and confirmed by the head of the department.

Grade 11 or 12: Most grade 11 and 12 students at Stevenson take science. Available courses are:

a set of two Semester Science Courses

- Open to all grade 11 and grade 12 students

Physics Honors

- To qualify a student should have earned at least an average grade of A- in Science 2, or B+ in Science 2 Honors, or a B in an AP science course and received permission from the science department.

AP Biology

- To qualify a student should have earned at least an average grade of A in Science 2, or A- in Science 2 Honors, or an A- in a Biology booster elective (a Biology elective marked with an \* in the curriculum guide), and received permission from the science department.

AP Chemistry

- To qualify a student should have earned at least an average grade of A in Science 2, or A- in Science 2 Honors, or an A- in a Chemistry booster elective (a Chemistry elective marked with an \* in the curriculum guide), and received permission from the science department.

AP Environmental Science

- To qualify a student should have earned at least an average grade of A- in the preceding year's science course, or received permission from the science department.

*continued on the next page*

### AP Physics C

- Students in this course must have completed or simultaneously take an AP Calculus course.
- To qualify a student should have at least an average grade of A- in both Physics: Mechanics and Kinematics and Physics: Forces and Energy, or B+ in Physics Honors, or mastered the equivalent material, and received permission from the science department.

## ENGINEERING COURSES

### Engineering Design

- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.
- To qualify a student should have earned B- or better grades in their preceding year's science course(s) and in a course including geometry or precalculus.

### Mechatronics Engineering

- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.
- To qualify a student should have earned B- or better grades in their preceding year's science course(s) and in a course including geometry or precalculus.

## COMPUTER SCIENCE COURSES

### Introduction to Computer Science

- Open to all students.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.

### Data Science

- To qualify a student should have a basic understanding of computer science and programming (ideally in Python) gained from the Introduction to Computer Science class or another equivalent source, and have received permission from the head of the applied science and engineering department to take this course.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.

*continued on the next page*

### Programming Methodology

- To qualify a student should have a basic understanding of computer science and programming gained from the Introduction to Computer Science class or another equivalent source, and have received permission from the head of the applied science and engineering department to take this course.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.

### Data Structures & Algorithms / Honors

- To qualify a student should have successfully completed Programming Methodology or its equivalent, including object-oriented programming and writing and using classes in Python.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.