

# STEVENSON

## Science Course Eligibility Criteria New Students 2024

Eligibility for an honors or AP science course for a student new to the Pebble Beach Campus is based on a review of

- the transcript
- the math readiness exercise in some instances
- possibly a conversation with one of our science teachers

Grade 9: All grade 9 students at Stevenson take Principles of Scientific Inquiry. In addition, grade 9 students can choose a computer science or engineering course if they wish.

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 only by petition to students who have excelled in previous science and math courses. In addition, grade 10 students can choose a computer science or engineering course if they wish.

Grade 11 and 12: Most grade 11 and 12 students at Stevenson take science. Certain courses are available only by petition to students who have been successful in previous courses. Computer science and engineering courses are also available. The offerings for grade 11 and 12 are:

### SCIENCE COURSES

a set of two Semester Science Courses

- Open to all grade 11 and grade 12 students

#### AP Biology

- To qualify a student should have excelled in previous high school science classes, and received permission from the science department to take this course.

#### AP Chemistry

- To qualify a student should have excelled in previous high school science classes, and received permission from the science department to take this course.

#### Environmental Science Honors

- To qualify a student should have excelled in previous high school science classes, and received permission from the science department to take this course.

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### Physics Honors

- To qualify a student should have excelled in previous high school science classes, and received permission from the science department to take this course.

### AP Physics C

- To qualify a student should have completed a calculus course with a B or better and the equivalent of a year of high school physics, and received permission from the science department to take this course. The student may be asked to complete a placement exercise.

## ENGINEERING COURSES

### Digital Fabrication 1

- Open to all grade 9 and grade 10 students.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.

### Digital Fabrication 2

- This course is open to grade 10 students only.
- Students choosing this course must concurrently enroll in Science 2 or Science 2 Honors
- To qualify a student should have passed Digital Fabrication 1 or have the permission of the instructor.

### Disciplines in Engineering

- This course is open to grade 11 and 12 students only.
- 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 two years of high school science and in Algebra 2.

### Mechatronics Engineering

- This course is open to grade 11 and 12 students only.
- 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 two years of high school science and in Algebra 2.

## COMPUTER SCIENCE COURSES

### Introduction to Programming

- 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.

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### Data Science

- To qualify a student should have a basic understanding of computer science and programming (ideally in Python) similar to that gained from the Introduction to Programming class or another equivalent source, and have the permission of the instructor.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.

### AP Computer Science A

- To qualify a student should have a basic understanding of computer science and programming similar to that gained from the Introduction to Programming class or another equivalent source, and have the permission of the instructor.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.

### Advanced Programming

- To qualify a student should have been successful in an AP Computer Science A course or the rough equivalent, and have the permission of the instructor.
- Students choosing this course must concurrently enroll in a year of lab science or have successfully completed three years of lab science.