



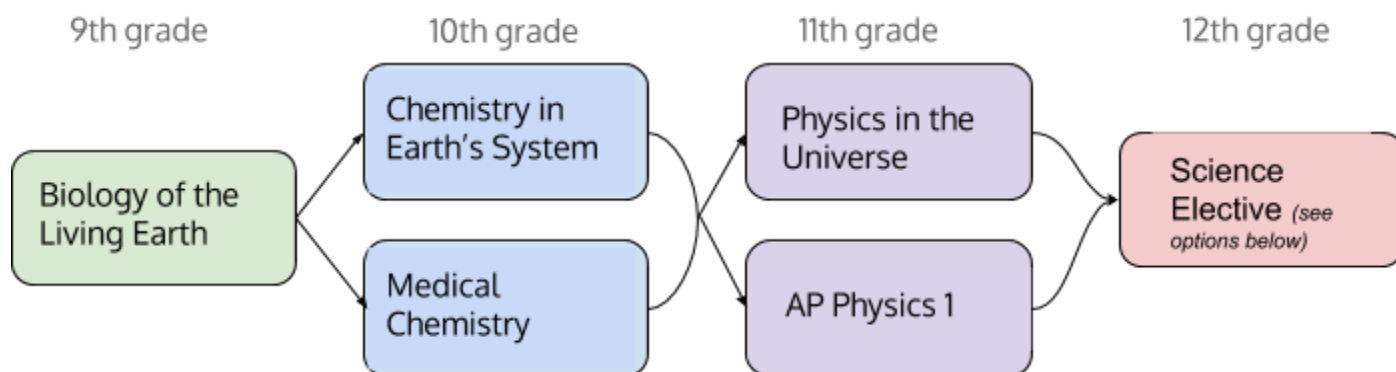
2017-18 SLHS Science Pathways

[Next Generation Science Standards](#) [CA Science Framework](#)

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| SLHS Graduation Requirement | 2 years (1 life science and 1 physical science) |
| CA Science Standards Framework | 3 or more years (Earth and Env. Science integrated into Biology, Chemistry and Physics courses for all students) |
| University of California (UC) | 3 or more years of approved "d" courses |
| California State Universities (CSU) | 2 or more years of approved "d" courses |

Recommended SLHS Science Sequence

Below is a flowchart illustrating the course sequence recommended for students to meet both the state standards and the UC/CSU college entrance requirements.



Students interested in taking more than two AP science courses or replacing certain core courses described above, with approved courses below, will need to discuss options with their school counselor. Students may enroll in more than one science course per year if they are interested and their schedule permits. Alternately, they can take the extra course through concurrent enrollment at a community college after-school or in the summer.

Science Electives

Courses approved "d: Laboratory Science" by the University of California are marked with an (*). Courses approved "g: Elective" for UC but "d" for CSU are marked with a (▲).

- *AP Biology* *
- *AP Chemistry* *
- *AP Physics 1 & 2* *
- *AP Environmental Science* *
- *Environmental Science* ▲
- *Anatomy/Physiology* *
- *Forensic Biology* *
- *Sports Medicine* ▲
- *Genetics/Biotech* ▲

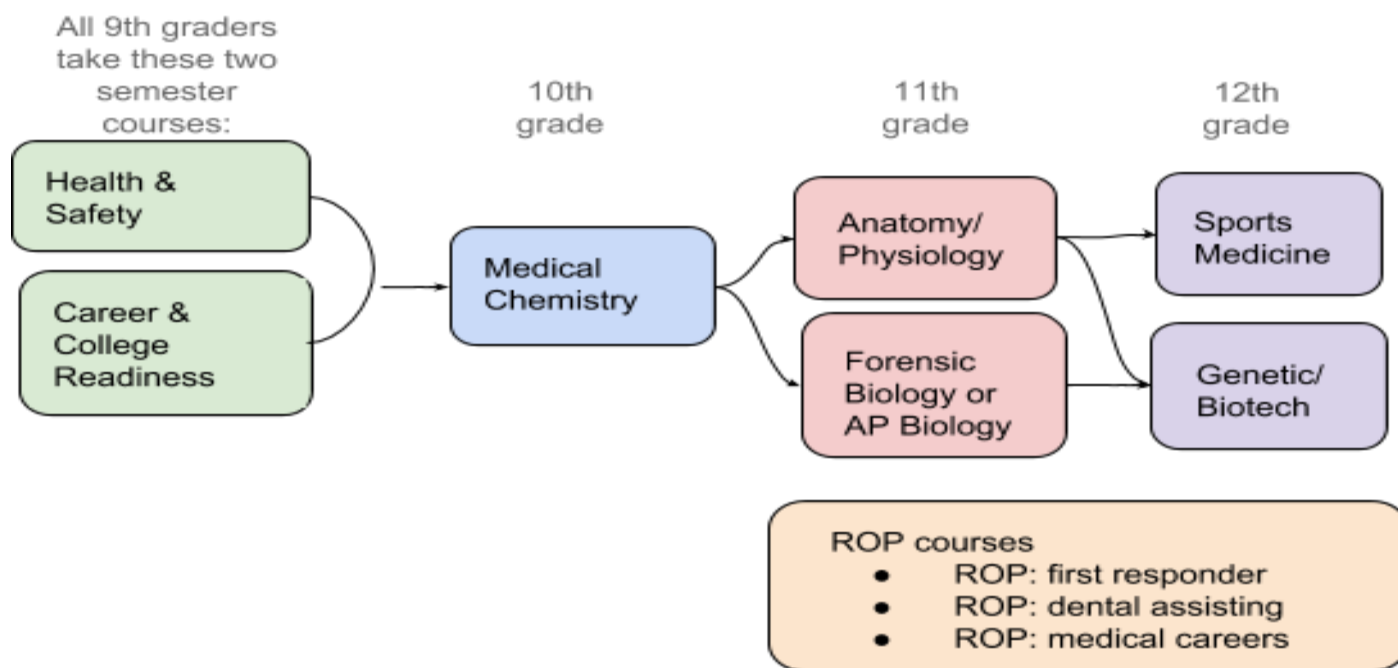
Advanced Placement Courses

Advanced Placement (AP) courses are rigorous college-level courses that prepare students to take an examination to qualify for college credit for that course. The College Board shares recommendations (not requirements) for which classes students should take prior to each AP course:

- **AP Biology:** Recommended completion of Biology & Chemistry
- **AP Chemistry:** Recommended completion of Chemistry and Algebra 2
- **AP Physics 1:** Recommended completion of Geometry and concurrent enrollment in Algebra 2
- **AP Physics 2:** Required completion of AP Physics 1
- **AP Env. Sci.:** Recommended completion of Biology, Chemistry, and Algebra

Biomedical Health Pathway

Students interested in medical and health careers are encouraged to join the Biomedical Health Pathway. These courses are recommended to be taken in addition to their core science courses outlined above.



Notes:

- 11th graders need to take physics in addition to their pathway course
- taking just one ROP course counts for full pathway completion

Concurrent Enrollment @ Chabot College

These courses are free for high school students

Biology 10 is comparable to high-school Biology and is offered this summer during the day in person.

Chem 10 "Intro to Chemistry": most comparable to high-school chemistry and has no math prerequisite. *(offered this summer as a hybrid course, which means the class meets in person for Lab only and the rest is conducted online).*

Chemistry 30A "Introductory and Applied Chemistry" is geared for Allied Health students has a Math 65 prerequisite (*elementary algebra*) so students would need to get an override through a counselor and possible exam.

<https://www.chabotcollege.edu/counseling/assessment/schedule-hs-concurrent.php>