

[AP Chemsitry]

[Grade Level(s)] (10 Credits)

- *Meets high school graduation requirement for Physical Science*
- *Meets the UC/CSU subject area "(A-G)" requirement*



General Information

Description

AP Chemistry is a college level general chemistry class that meets the College Board standards for AP Chemistry. Material covered includes stoichiometry, thermodynamics, atomic structure, bonding, states of matter, solutions, kinetics, equilibrium, acids and bases, electrochemistry, and organic chemistry.

Expectations and Goals

AP Chemistry involves a significant lab component. In addition to labs, students take notes in class, watch instructional videos, and read a variety of online textbooks. Students are expected to walk in the class the first day able to manipulate and solve algebraic expressions with ease. The class involves a considerable amount of high lexile level text to be digested by students. Lab reports and exams have high demands on student reasoning skills. Maturity and responsibility are a necessity for student success in AP Chemistry. A focus on learning, grades, and achievement is essential for students who wish to pass AP Chemistry.

Estimated Homework

Homework in AP Chemistry ranges from 5 to 15 hours per week and includes reading, watching instructional videos, working practice problems, writing lab reports and studying for tests.

This Class Is Best For...

AP Chemistry is a rigorous, demanding class intended for advanced STEM students. Students are expected to bring a proven track record of success in math and science classes into AP Chemistry as a background to build upon. AP Chemistry is intended for students seeking admission to selective admissions and elite colleges and universities and for students who want a strong background in STEM to prepare for the rigor of STEM and/or premedical study in college. The focus of the class is on building higher level academic and intellectual skills through the study of chemistry at the college level.

Course Materials

Required Materials

- Pearson Mastering Chemistry Program. Nivaldo Tro (author) textbook.
- Course Webpages: <https://sites.google.com/a/sduhsd.net/brinn-belyea-science-teacher/home/ap-chemistry>

Additional Information and Resources

This is a great place to link prior student work, suggested reading, on-line resources, study guides, etc.

- [Mastering Chemistry](#)
- [AP Chemistry Review](#) (Summary of Topics Covered)
- [AP Chemistry College Board Homepage](#)