



La Costa Canyon High School

Science

AP Chemistry

Level of Difficulty	Estimated Homework Time	Prerequisites
<input type="checkbox"/> Moderate <input type="checkbox"/> Difficult <input checked="" type="checkbox"/> Very Difficult	90-120 minutes per day	<u>District</u> Recommended completion of Chemistry with A. <u>Department</u> Recommended A in Biology, A in Chemistry, completion of Integrated Math III

Course Description

Advanced Placement Chemistry is geared for students who are planning a career in the sciences. The course is extremely rigorous and it taught like a first year college chemistry course. Chemistry involves the study of matter and energy. Many common and current problems of the modern world are related to the course content. The central theme of the course is problem solving within chemistry. The course will include the following topics:

Matter and Measurement
Atoms, Molecules, and Ions
Stoichiometry
Aqueous Solutions
Thermochemistry
Periodic Properties
Solids, Liquids, and Gases
Chemical Bonding
Molecular Geometry
Properties of Solutions
Chemical Kinetics
Chemical Equilibrium
Acid-Base Equilibria
Thermodynamics

Electrochemistry
Nuclear Chemistry

We will explore these topics through discussions, laboratory investigations, teacher demonstrations, and in-class assignments.

This course is aligned with the California State Standards in Chemistry:

<http://www.cde.ca.gov/be/st/ss/scmain.asp>

Course overview link:

<https://apstudent.collegeboard.org/apcourse/ap-chemistry>

Grading

The grading system is based on weighted percentages. Each assignment will have a point value and be weighed according to the category it falls under. There are five categories; Homework, Laboratory, Quizzes, Exams, and the Final Exam. Individual teachers may make slight modifications on the weighted percentages.

Additional Information for Students/Parents

- 10 credits
- Meets high school graduation requirement in physical science or counts toward elective credits
- Meets UC/CSU subject area "d" requirement
- Weighted grade