



What is AP Chemistry?

AP Chemistry Course Description

This course provides students with the opportunity to attain a depth of understanding of fundamentals and a reasonable competence to deal with chemical problems that a typical freshman is learning in a college level course. To be successful, students need strong problem solving and critical thinking skills. The course also develops the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. An extensive laboratory experience is provided for all Advanced Placement Chemistry students. For some freshmen, this course will enable them to undertake second-year work in the chemistry sequence; or to register for other courses where chemistry is a prerequisite. For others, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses.

Key Topics:

Students will learn the six big ideas covering the concepts of Stoichiometry, Solutions, Atomic Structure and Periodicity, Bonding, Kinetics, Gas laws, Intermolecular forces, Equilibrium, Acid-base chemistry, Buffers, Thermodynamics and Electrochemistry

Course Goals:

- Develop skills in problem-solving, critical thinking, and data analysis.
- Conduct laboratory experiments to explore chemistry concepts and apply the scientific method.
- The ability for students to clearly express their ideas and understandings.

Expectations:

- Active participation in class discussions and activities.
- Completion of homework assignments.
- Regular practice and review of concepts to reinforce learning.
- Collaboration with peers to solve challenging problems.

Assessment: Your understanding of the material will be assessed through quizzes, tests, labs and homework assignments. Regular feedback will help you track your progress and identify areas for improvement.

Prerequisites

Students must have completed Algebra II and Honors Chemistry with a grade of at least 85 raw score. Students should possess strong math skills.

There is no summer course work for AP Chemistry.