

AP Chemistry Information

Advanced Placement Chemistry is a second-year chemistry course designed to prepare students for the AP Exam in Chemistry. This exam will be given in May of 2019. All AP students are required to take this exam. The course is fast-paced and challenging. Prospective students should have a comfortable grasp of mathematics, preferably taking either AP Calculus or Honors Pre-Cal.

Although a written summer assignment is not given, students should be familiar with many of the major topics of Chemistry I at the beginning of the AP course. Specifically, students should review their lists of ions and solubility rules before entering Advanced Placement Chemistry. In addition, students should have a working knowledge of such concepts as moles, molarity, molar mass, and percent composition. The AP course begins with a unit on stoichiometry, in which each of concepts is used.

General Course Outline:

Stoichiometry and Reactions

Gases

Thermochemistry

Atomic Structure

Chemical Bonding and Molecular Structure

States of Matter

Solutions

Chemical Kinetics

Equilibrium

Acids and Bases

Free Energy and Thermodynamics

Electrochemistry

A variety of laboratory activities will be performed as a part of this course. Students are expected to follow all laboratory safety rules, including the wearing of safety goggles and aprons when appropriate.