

AP Chemistry Prep Course Description and Syllabus

This four-week AP Chemistry Prep Course is designed to introduce students to college-level chemistry and prepare them for success in an AP Chemistry class. The course is taught by Peter Moskaluk, a State of Michigan certified chemistry teacher with more than forty years of experience teaching chemistry. The instruction is aligned with the first four units of the AP Chemistry Course Framework published by the College Board.

The course is asynchronous, allowing students to work at their own pace. Each week includes detailed topic summaries, instructional videos, and interactive exercises that reinforce key concepts. Students can access all materials at any time allowing them to manage their own schedule and learning.

The instructional videos include engaging demonstrations that illustrate important chemical principles so students can see how the chemistry works in practice.

The interactive exercises for each unit are automatically graded, giving students immediate feedback along with additional explanations of the concepts covered.

Students also participate in an online discussion forum. Mr. Moskaluk monitors the discussion board throughout the day to make sure that questions are answered promptly. The discussion board also gives students a place to share ideas, help one another, and collaborate on homework.

A transcript of course completion can be provided upon request.

Syllabus

Unit		Week
SC01	Matter and Measurement Types of Matter and SI Units Significant figures Lab measurements	1
SC02	Atoms, Molecules, and Ions Isotopes Average atomic mass Moles & molar mass Nomenclature	2
SC03	Stoichiometry: Calculations with Chemical Formulas and Equations % Composition & Empirical Formulas Balancing reactions Conservation of atoms and mass	3
SC04	Aqueous Reactions and Solution Stoichiometry Concentration Solubility rules Ionic equations Precipitation Reactions Acid Reactions	4