

Honors Chemistry

Course	Dates	Schedule	Instructor
Honor Chemistry	9/19/2026 - 5/30/2027	Sunday 5:00 PM - 6:30 PM	Mr. Black
Assessment test	12/6/2026 2/14/2027 4/11/2027 5/16/2027	Sunday 5:00 PM - 6:30 PM	

Course Description

Prerequisites: Successful completion of Biology and Algebra I (or equivalent) with strong academic performance

Course Overview

Honors Chemistry is a rigorous, laboratory-based study of matter, energy, and the interactions that govern the physical world. Designed for highly motivated students with strong analytical and mathematical skills, this accelerated course develops a deep conceptual understanding of chemical principles while emphasizing quantitative problem solving, scientific inquiry, and evidence-based reasoning.

Students investigate the structure and properties of matter at the atomic and molecular levels and use scientific models to explain observable phenomena. Through laboratory experimentation, data analysis, and collaborative investigations, students learn to think and work like scientists while developing skills essential for advanced science coursework.

Major Topics

- Scientific measurement, uncertainty, and laboratory safety
- Classification and properties of matter
- Atomic structure and the history of atomic theory
- Electron configuration and periodic trends
- Chemical bonding and molecular geometry
- Chemical nomenclature and formula writing
- Chemical reactions and equation balancing
- The mole concept and stoichiometry
- States of matter and gas behavior
- Thermochemistry and energy transformations
- Solutions and concentration calculations
- Acids, bases, and pH
- Reaction rates and chemical equilibrium

- Nuclear chemistry

Skills Developed

Students will:

- Apply scientific reasoning to solve complex problems.
- Analyze quantitative and experimental data.
- Use mathematical models to explain chemical phenomena.
- Communicate scientific ideas effectively in written and oral formats.
- Develop critical thinking, collaboration, and investigative skills.

Preparation for Advanced Study

Honors Chemistry provides a strong foundation for AP Chemistry and other advanced STEM courses. Students who successfully complete the course will possess the conceptual understanding, laboratory experience, and analytical skills necessary for continued study in chemistry,

The classes will include homework, quizzes, mid-term and final exams.

Program Pricing

[*Click here then scroll down for tuition pricing](#)

Additional pricing options available

[*Click here to register](#)

Teacher Profile

Mr. Black

Chemistry



Mr. Black is a certified teacher with 20 years' experience on teaching AP Chemistry, Pre-AP Chemistry, Honor Chemistry and General Chemistry. He helped students bridge the gap between what notes to take in high school and having to find the information and research on their own in college. He designed State Science Exams. He knows how to handle a small group class with students at different levels in his tenure of teaching Chemistry, he has helped hundreds of students achieved perfect scores in AP and improving school grades from C, D, F to A-, A.