AP

Questions? Contact Ms. Fisher at Amy.fisher@lcps.org or Ms. Moye at Christine.moye@lcps.org

- Prerequisite: excelled in Research/Academic Chemistry
- May earn college credit with an AP exam score of 4 or 5
- Course covers the equivalent of one full year of college level General Chemistry
- A rigorous math-based course with a strong laboratory component.
- Students should have a passion for Chemistry

Big Ideas in AP Chemistry:

1. Atoms, Elements, and the Building Blocks of Matter
2. Bonding and Phases
3. Chemical Reactions, Energy Changes, and Redox Reactions
4. Chemical Reactions and Their Rates
5. Laws of Thermodynamics and Changes in Matter
6. Equilibrium, Acids and Bases, Titrations and Solubility

Assignments:

- Homework every night
- Daily graded assignments including lecture worksheets, AP style free response questions and lab reports
- 30% of grade

Assessments:

- Quiz per unit
- AP style test per unit to include multiple choice and free response
- Opportunity to retake one test per quarter
- 70% of grade

Workload:

- Expect a college-level workload
- Expect homework every day
- Expect to go home and review notes daily
- Expect a summer assignment

AP Exam:

- Given in May
- 60 multiple choice
- 3 long form and 4 short form free response questions

Description of AP Chemistry from the College Board:

The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Created by the AP Chemistry Development Committee, the course curriculum is compatible with many Chemistry courses in colleges and universities.

Students who take AP Chemistry will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains.

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. Fore other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses.