



**Lambert High School 2020-2021**  
**AP Chemistry Syllabus**

[\(Digital access : AP Chemistry syllabus\)](#)

**Course Title : AP Chemistry**

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**Course Description:** 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. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. AP Chemistry should meet the objectives of a good college general chemistry course. Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. The college course in general chemistry differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory

**Standards:** This is the topic outline , given by the college board. For a more detailed description , please see the course description posted on <https://apstudent.collegeboard.org/apcourse/ap-chemistry>

<b>Semester 1</b>	<b>Semester 2</b>
1. Atomic structure and properties	7. Equilibrium
2. Molecular and Ionic compound structure and properties	8. Acids and Bases
3. Intermolecular Forces and Properties	9. Applications of Thermodynamics
4. Chemical reactions	
5. Kinetics	
6. Thermodynamics	

**What you can expect in each unit/ Course Requirement :**

**Notes** –I do my very best to present the content in a clear, understandable manner, where we will build on previous knowledge. We may also utilize podcasts, or a similar resource, to supplement what we cover in class. Please take detailed notes and if you are absent, you are responsible for the material. Notes outline will be posted on Itslearning

**Lab** – Will be posted on its Learning; prelab (not accepted late) will be due before the lab and post labs will be due after the lab. These are to be completed in your lab notebook and are all formal.

**Lab Safety** - Is a primary concern and enforced. Not following the safety rules may result in loss of lab privileges and a reduced lab grade. A safety contract, quiz, and section in each lab will help to remind of this important aspect of the lab. In addition, I will carefully go over all safety concerns before the lab.

**Safety Goggles** -To reduce the possible spread COVID-19 by lab safety goggles, every lab will be equipped with a spray bottle of 70% isopropyl alcohol solution to sterilize goggles between each use. Students are welcome to bring their own goggles provided the goggles meet safety standards. They must be splash proof and have a Z87+ impact rating. The linked goggles should meet the safety guidelines required at most colleges as well. Safety glasses are not acceptable protection. Suitable goggles are linked below. An electronic copy of the syllabus can be accessed on Itslearning so that you can follow the links. Flinnsci.com [AP3306](#) or [AP3309 for Fog Free.](#) Amazon.com - [Green Safety Goggles](#)

**Quizzes** – They give you an opportunity to see how well you know the material; 80 % one quiz can be replaced by the test if it is a higher grade. **[formative]**

**Homework** - Necessary to master the content; may be a paper assignment or utilizing an online source such as Cengage **[formative]**

**AP Practice Questions** – FRQ's will be assigned every Friday and graded one formative grade per unit

**AP Collegeboard PPC** - They will be assigned as an additional practice for AP style MCQ and FRQ.

**Tests** – The tests are meant to prepare you for the AP Exam. They will be composed of two parts and they will be timed. Part 1 will be a non-calculator multiple choice, and Part 2 will be free response. The tests will always have material from previous units. [summative]

### **Grading Policy**

**Course Average** = 50 % (1<sup>st</sup> semester) + 50 % (2<sup>nd</sup> semester)

Midterm and Final Exam each count as 2 summative assessments

**Grading PA** : 90-100 ; B :80 -89.49 ; C : 70 - 79.49 ; Fail < 70

**1<sup>st</sup> and 2<sup>nd</sup> Semester Course Work** = 75% Summative + 25% Formative

***“Summative evaluations may not be given until formative feedback on the standards has been shared”***

***Summative Assessments include, but are not limited to unit tests, final projects, final essays, final research papers, and final presentations.***

### **What Is expected from you for each unit**

#1- Use the planner in ITSlearning to keep up with reading, book problems, Cengage assignments, and practice FRQ every night. Waiting until the night before will not help you in this course and you will very quickly feel overwhelmed and behind.

#2 – Attend help sessions as needed and never hesitate to ask when you need help. The day before the test is too late to truly get the help you need (see point #1!)

#3 – Always follow the safety rules and specific guidelines for each lab. Failure to do so will result in possible injury and detention.

#4 – Come to class **each day, on time** and ready to go. We will always have something to do! This includes #1-2 and: no cell phones out, no sleeping, no talking during lecture. Failure to follow expectations may result in detention (glassware always needs cleaning!).

#5 - Turn work in **ON-TIME !!!**

**Availability for Extra Help:** As the school year proceeds, we hope to offer consistent, in-person help times. At this time, all extra help must be scheduled by appointment and will most likely be virtual in nature through a platform like Google Meets or Microsoft Teams. [Form : AP chem help sessions](#)

**Makeup Work:** Make up work is defined as work assigned during a student's absence, not work assigned prior to an absence. The student has (5) school days upon returning to school to complete make-up work. The teacher has the discretion to grant a longer period to make up work, if there are extenuating circumstances.

**Learning Resources/Textbook(s):** All learning resources, both print and digital, are meant to support and enhance the student learning experience of this class. Below are the names of the textbooks and websites that will be used in this course. Some of the web-based resources require parent permission per federal regulations. Federal laws that guide parent permission requirements are as follows:

**Children's Internet Protection Act (CIPA):** The school is required by CIPA to have technology measures and policies in place that protect students from harmful materials including those that are obscene and pornographic. Any harmful content contained within inappropriate sites will be blocked.  
<http://fcc.gov/cgb/consumerfacts/cipa.html>

**Children's Online Privacy Protection Act (COPPA):** COPPA applies to commercial companies and limits their ability to collect personal information from children under 13 years of age. No personal student information is collected for commercial purposes.  
<https://www.ftc.gov/tips-advice/business-center/guidance/complying-coppa-frequently-asked-questions-0>

**Family Educational Rights and Privacy Act (FERPA):** FERPA protects the privacy of student education records and gives parents the right to review records. Under FERPA, schools may disclose directory information in certain circumstances. <http://www2.ed.gov/policy/gen/guid/fpco/ferpa>

**Text resources : Chemistry , Zumdahl , 9th edition (online)**

**Online Resource : ap-college board**

**Online resource : Cengage**

***\* The resources are county approved. These resources may vary by school due to sequencing, pacing, curriculum design, and/or individual needs of students.***

I, \_\_\_\_\_, have read this course syllabus and approve of its contents. I agree to allow my student to use each of the classroom resources listed in the learning resource section. I will support my student following the classroom expectations outlined in this course syllabus. I agree that I am the person who is legally allowed to consent for my student whose name is listed below.

\_\_\_\_\_  
Parent's Name (Print)

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Student's Name (Print)

\_\_\_\_\_  
Date