

Hillsboro High School

Advanced Placement Chemistry Mr. S. C. Harms

AP Chemistry provides students with the opportunity to engage in a college level chemistry curriculum in order to seek credit for a 1st year college equivalent course. This course is designed to prepare students who plan on attending a college or university by challenging you, and it is my hope that you will leave with a solid chemistry foundation. Be prepared to think critically, analyze concepts, and apply information to the world around you. With that being said, I will do my best to help you succeed in this class, but it will be your responsibility to reach out if/when you need it. Please note: there will be an expectation for students to complete work outside of class. Be prepared to work hard and have fun doing it.

Course Description:

This course will be broken up as follows:

Unit 1 – Atomic Structure and Properties

Unit 2 – Molecular and Ionic Compound Structure and Properties

Unit 3 – Intermolecular Forces and Properties (split into two units)

Unit 4 – Chemical Reactions

Unit 5 – Kinetics

Unit 6 – Thermodynamics

Unit 7 – Equilibrium

Unit 8 – Acids and Bases

Unit 9 – Applications of Thermodynamics

Materials:

Each day, I ask you to bring the following items to class with you:

- Fully charged Chrome Book
- 2-inch binder
- Loose-leaf paper
- Graphing calculator (preferably TI-84) or scientific calculator (preferably TI-30XIIS)
 - **CHECK WITH ME PRIOR TO PURCHASING ANYTHING ELSE!**
- Supply of pens and/or pencils

Graded Work:

- 1) Tests (**50%**)- There will be a total of thirteen exams (one from each unit of study with two from Unit 3, two practice exams in April/May, and the AP Chemistry Exam on May 6, 2024 at 12:00 PM). If a student chooses not to take the culminating exam from the college board, they will be given an alternate exam as their final exam (most likely a former exam from a previous year). Each test will have a multiple-choice section and free response questions to mimic the AP Chemistry exam. Unit tests may include content from previous units, but the majority of emphasis will be placed on those skills learned since the last unit assessment. Tests are my property, and while I hand back tests and review mistakes, I will recollect the tests prior to you exiting that day. Failure to resubmit your test will result in a zero. Calculators may be used on all assessments, but **cell phones may not** substitute for a calculator. **You must finish all tests in one setting (i.e., you may not start at one time and finish at another). Cell phones, Air Pods, and smart watches will be collected at the beginning of the period.**
- 2) Quizzes (**10%**)- Within each unit, there will be AP Classroom Topic Questions for each topic covered, as well as your daily Do Nows. These can be taken remotely in addition to in class, and notes are fair game for each. Please note that cheating on these will hurt you in the long run, so it is important to use your own skills to assess your own knowledge. For AP Classroom Topic Questions, these are due by 11:59 PM two days after we cover the respective content (i.e., if we cover 1.1 and 1.2 on Wednesday during class, this quiz is due by 11:59 PM on the Friday immediately following). **Please note that this two-day window includes weekends, breaks, and holidays, so prepare for this accordingly (i.e., if we finish a topic on Thursday, this quiz will be due on Saturday immediately following by 11:59 PM; Friday – by 11:59 PM the Sunday that immediately follows).** There may also be other quizzes throughout the course (i.e., labs, review, etc.).

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- 3) Labs/Projects (**30%**)- Labs and projects supplement instruction to help you understand the concepts taught in class. During the course of this year, approximately 25% of classroom time will be spent doing lab activities. We will try to complete 16 labs/demos (minimum), and six of these will be inquiry-based (requirement of the College Board). With that, we will gauge this as the year progresses, and some of these may be done after the examination in May.
- 4) Practice Work/Participation (**10%**)- Practice work will be given as we complete topics for you to practice the skills necessary for successful completion of that unit. While I will try to answer questions about the practice work in class, due to time constrictions, it will be your responsibility to see me if you are struggling with a particular topic. Practice work will be recorded as completion (i.e., if effort is shown on it, points will be allotted). The answer keys are in a binder in my classroom for you to **CHECK** your work, and I have found that if you just copy the answers down, it will show in your quiz and exam scores! Thus, it is important to do all practice work fully, as it helps prepare you for tests and quizzes. **All daily practice work for a unit is due at the beginning of the hour each Friday, and the remaining is due (day prior to examination) at the beginning of class. Progress Checks will be due by 5:00 PM the night before the respective Examination on AP Classroom.**

Class Procedures:

- A. Make-Up Work
 - a. If you are absent, it is your responsibility to make up all the work you missed. Please be diligent about making up the work as quickly as possible (**within 1-2 days, maximum**). The work you missed will be in the appropriately labeled absent folder and on Schoology, but if not, please check with me prior to class starting. This includes Do Nows and Exit Tickets.
 - b. If you are absent **due to a school function** (i.e., extracurricular activities, field trips, etc.), you are expected to get your assignments from me **PRIOR** to your leave and complete them by the **due date**. It will be your responsibility to come in for any additional help as needed before/after school to get the work done on time.
 - c. You are responsible for getting any notes during the day(s) you are absent from other students in the class.
 - d. If you miss a test, it must be made up within **three school days of your return**. Exceptions will only be made in extreme circumstances. **This must be done in a time other than during class!**
- B. Class Work Time
 - a. It is my goal to give you some time in class to work on assignments. With that, it will not always be feasible, as some lessons/activities take longer than others. As such, **AP Chemistry time is for just that, AP Chemistry**. You **will not** be allowed to work on homework from any other class until your work for mine is complete. Any homework from other classes that is out when you are given time to work on chemistry will be confiscated. Repeated offenses will be subject to the expectation violations (outlined below).
- C. Late Work
 - a. **Any practice work/lab turned in late will receive a 10% reduction in grade for each day it is late. After five days, it will become a zero.**
- D. Hall Passes
 - a. No one will be allowed to leave during a test/quiz. Your test/quiz will be taken, and you will not be allowed to complete any more of it.
 - b. If you leave my room (unless you are signing out and leaving school), you **must** place your phone in the "Phone Hub" in order to leave.
- E. Food/Drink Policy
 - a. Food and drink will be permitted on non-lab days only.
 - b. No food/drink (including gum and candy) will be allowed in the lab. Failure to adhere to this rule will result in a **zero** on said activity.
- F. Dismissal
 - a. Students should be in your seats until the end of class in order to be dismissed. I will dismiss the class, not the bell. **You will not be permitted to line up at the door before the end of the class.**
- G. Respect and Work Ethic
 - a. Respect yourself, your peers, your teacher, and your classroom. Do your best every single day. Come to class on time, prepared, and ready to start at the bell.

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H. Schoology

- a. I will post due dates, notes, quiz and test outlines/reminders, helpful hints/suggestions, and various other announcements on Schoology, so make sure to check there every day!
- b. You can also utilize Schoology to see what you missed on a day when you are gone. Please do this **prior to** emailing me.

I. Cell Phones

- a. All electronic devices should be put on silent and placed in your bookbag prior to entering the classroom/lab. It must remain there for the duration of class.
- b. Starting this school year, if you are caught with your phone at any time in the classroom or lab, you will earn a referral (this is a school board policy).
- c. All cell phones, Apple/Smart Watches, and Air Pods will be placed on front table prior to all tests. Failure to do so will result in a **zero** on said exam. No exceptions!

J. Corrections on Summative Assessments

- a. You may do test corrections on all summative assessments in my class (besides the semester final exams). You will use a loose-leaf piece of paper and follow the format outlined on Schoology. Students can increase their score by up to ten percent. There are no corrections on quizzes or labs (this only applies to unit exams).
- b. All test corrections must be completed **three** days after we go over in class. Thus, if you receive the test back on a Monday, test corrections are due on Thursday. These must be completed **outside of class** (i.e., during Flex, before school, or after school). **You will earn half credit back for each successfully completed problem + 5 points.**

K. Group Assignments

- a. For all group projects, you have the option to do the assignment by yourself. With that, you must complete the same assignment as you would if you choose to be in a group. If you have issues with your group, choose different group members. It is vital for you to read documents fully (email me if you catch this for one bonus point on each of the first three quizzes). I do not choose your groups; thus, if you have problems with other individuals, you need to work through it or handle it yourself.

L. Need Extra Assistance?

- a. I strongly recommend you reach out for assistance when you need it. As such, I will be available most days prior to school for this between 7:20 - 7:50. If you need to meet after school, I ask that you please make the necessary arrangements in advance to ensure that I can stay.

General Template for Due Dates

Assignment Type	Due Date
Practice Work	Each Friday (remaining for a unit due on the first review day)
Laboratory Work	One to two school days after completion of lab experimentation
Topic Questions – AP Classroom	Two days after lesson completion (including weekends)
Do Nows/Exit Tickets	Each day after completion
Unit Progress Checks	Day prior to respective exam by 5:00 PM (so that you can study the answers prior to the exam)
Projects/Presentations/Lab Reports	Approximately one week from assigned date

Expectation Violations:

- First Offense: Verbal discussion of offense
- Second Offense: Phone call home to parents/coach
- Third Offense: Removal from classroom to office
 - Any time an offense results in ejection from the classroom, the student will be subjected to the school's discipline system.

Contact Information:

The best way to reach me is by email (charms@hillsboroschools.net). If you do not receive a response from me within 24 hours, please feel free to resend the email.

Mr. Harms reserves the right to amend this syllabus at any time during the course

AP Chemistry Syllabus Signature Page

I _____ have read the AP Chemistry syllabus and agree to abide by the goals, guidelines, expectations, and grading policy set forth. I realize that failure to adhere to these guidelines will result in my exclusion from activities, removal from class, or some other corrective measure dependent upon the severity of my actions.

Student Name (Please Print)

Parent/Guardian Name (Please Print)

Student Signature **and** Date

Parent/Guardian Signature **and** Date

Parent/Guardian Preferred Method of Contact

Please provide **BOTH** your email and phone number below (**parent/guardian, NOT student**):

Email address: _____

Phone Number: _____