

Advanced Placement Chemistry
Huron High School, AA, MI

Teacher page: www.a2huron.org/huron.collinsa/home

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AP Chemistry is a course designed to provide students with the opportunity to participate in a college-level science experience. This course is composed of lecture and laboratory components. This course gives the students the opportunity to earn advanced placement credit, which may then be used as either college credit or a class waiver, depending on the student's AP test score and the policies of the college in question. All AP Chemistry students are expected to take the AP exam, which will be offered in May.

COURSE TOPICS:

- I. Structure of Matter (the nucleus, electronic arrangement of the atom, bonding)
- II. States of Matter (bonding, intermolecular forces, boiling/melting points, ionization)
- III. Reactions (synthesis, single/double displacement, redox, acid/base, combustion, decomp.)
- IV. Descriptive Chemistry (naming, reaction writing, recognition of symbols)
- V. Thermodynamics, Kinetics and Equilibrium
- VI. Laboratory

CLASSROOM POLICIES:

1. AP Chemistry is a very fast-paced course and students will benefit from timely and frequent feedback on their progress and as a result, **LATE ASSIGNMENTS WILL BE HEAVILY PENALIZED.**
2. As a result of the advanced nature of this course, students are expected to conduct themselves in a mature and responsible manner. Laboratory safety is a primary concern and a **FAILURE TO FOLLOW LABORATORY SAFETY GUIDELINES WILL RESULT IN DISMISSAL FROM THE LABORATORY AND A FAILING GRADE ON THE LABORATORY ASSIGNMENT (ACTIVITY).**
3. Students are responsible for all work missed due to absence and are expected to complete all make-up work, including labs, according to the following guidelines*:
 - Homework assignments.** Due to the advanced due dates of assignments, one day will be allowed per day of absence. Ex: if your homework is due Wed. and you are sick and excused that day, your work will be due Thurs.
 - Tests/Quizzes.** These dates are provided in advance so the expectation is that you will complete the test/quiz **IN CLASS** on the day you return. Mr. Collins must approve any exceptions to this policy (Talk to me, call me, e-mail me, etc. It is **YOUR** responsibility).
 - Labs.** Each student will choose a lab day (Tues-Fri). If they cannot attend lab due to sickness/excused absence, lab make-up will be conducted on Friday. If Friday is not possible, a make-up lab report will be submitted (see guidelines) Two make-up reports will be allowed per semester.
LAB DAYS THAT ARE MISSED AND NOT REPLACED WITH A PAPER/MAKE-UP ACTIVITY WILL RECEIVE NO CREDIT.
***ALL ABSENCES MUST BE EXCUSED IN ORDER TO MAKE-UP MISSED WORK, LABS, QUIZZES, ETC. EXCUSED ABSENCES ARE CALLED-IN FROM HOME AND ACCOUNTED FOR IN THE SCHOOL'S ATTENDANCE PROGRAM. IT IS THE STUDENT'S RESPONSIBILITY TO MANAGE/FOLLOW UP ON THEIR EXCUSED ABSENCES. THIS MUST BE DONE EXCLUSIVELY THROUGH THE MAIN OFFICE.**
4. Students are expected to contribute to each other's learning. Students should come to class prepared and should pay attention in class. Students who have not completed a pre-lab document prior to entering lab will be asked to leave and submit a make-up report (This will count as one of the two allowed deviations from your lab sign-up day). It is imperative that the learning environment be respectful and complimentary to all students. The formation of study groups is encouraged and students in the past have greatly benefited from collaborative efforts. However, it is very important that the actual homework and lab reports be your own.
5. Plagiarism is presenting someone else's ideas or work as your own. When labs are completed in teams, the reports are expected to have the same data, but they should differ in terms of discussion, conclusions, and interpretations. Students who supply answers or allow other students to copy their work are every bit as responsible as those who are doing the cheating. **NO STUDENT WILL BE GIVEN CREDIT FOR AN ASSIGNMENT INVOLVING ACADEMIC DISHONESTY.** These students will also be reported to their parents and to a school administrator. *See Code of Ethical Behavior

LABORATORY GUIDELINES:

AP Chemistry will meet during 7th period.

Students will be required to maintain a laboratory notebook and complete formal and informal laboratory reports. Special attention must be paid to the format of the lab write-up and to observations. How can one conclusively state what happened if it is not supported with data and observations?

Students will have lab once a week. At the beginning of each semester, students will choose lab sections (Tues-Fri). When choosing this section, the student will focus on mitigating scheduling conflicts (sports, band, clubs, etc.) as well as choosing lab partners that will enhance their academic experience. It is the expectation that students will attend their chosen lab section. If they cannot make it to lab or to the Friday make-up their lab report will consist of a written report. Two make-up reports will be allowed per semester. As a result of the advanced nature of our laboratory work, **STUDENTS AND THEIR LAB PARTNERS WILL FREQUENTLY NEED TO STAY PAST THE END OF 7TH PERIOD TO COMPLETE THE LAB, CLEAN UP, ETC.**

YOU ARE RESPONSIBLE FOR ADJUSTING YOUR AFTER SCHOOL SCHEDULE AND ENSURING THAT YOU HAVE TRANSPORTATION. ALL LAB MEMBERS MUST BE PRESENT FOR THE COMPLETION OF THE GENERATION OF DATA. IF YOU ARE NOT PRESENT, HOW CAN YOU SAY YOU OBSERVED A TREND? A CHANCE TO CHOOSE NEW LAB PARTNERS AND LAB DAYS WILL ARRISE AT THE BEGINNING OF EACH SEMESTER.

TESTS AND QUIZZES:

Major tests and quizzes will be announced several days in advance, however short quizzes on current material will often occur unannounced and students should come to class prepared. It is imperative that the assigned reading list is completed in a timely manner. All major tests will include multiple choice and/or short answer essays/calculations. Any student taking a make-up test can expect an alternate test format.

INDIVIDUAL ASSIGNMENT GRADES = points earned/points available x 100

OVERALL QUARTERLY GRADES will be assessed via the following weighted categories.

-LABORATORY WORK, LAB QUIZZES AND REPORTS	30%
-TESTS & QUIZZES *	70%

SEMESTER GRADES will be based upon the following format:

FIRST SEMESTER

First Marking Period = 40%, Second Marking Period = 40%, Cumulative 1st Semester Final = 20%

SECOND SEMESTER

Third Marking Period + Fourth Marking Period = 80%, 2nd Semester Project/Report = 20%

GRADE POINT TOTALS will be based upon the following percentages:

100.00 + % A+	93-100.0% A	80-82.9% B-	68-69.9% D+
	90-92.9% A-	78-79.9% C+	63-67.9% D
	88-89.9% B+	73-77.9% C	60-62.9% D-
	83-87.9% B	70-72.9% C-	0-59.9% F

Grading curves (shifts) will rarely be used. If a curve is used on tests it will be based on the highest score out of **ALL** AP Chemistry students. This high score will determine the total points for an exam. Citizenship/work ethic/ preparedness/homework completion will determine the extent that a semester grade is adjusted. Generally speaking, a semester grade is variable by about 1%.

*Test corrections can be completed to raise a poor test/quiz grade up to a 75% grade (C). Test corrections can be completed two times per semester on a date specified for each test. See test corrections document for details.