

San Angelo Independent School District
Course Syllabus

Teacher: Justin Hollway

Campus: Central High School

Room: TU 224

Grade Level: 11, 12

Course Title: Advanced Placement Chemistry

Course Description:

The purpose of Advanced Placement Chemistry is to provide an introductory college level (general chemistry) course. Students will be engaged in hands-on laboratory work with an emphasis on depth of understanding of topics, rather than a breadth of topics.

Objectives:

Students will:

1. Learn the inquiry process through numerous laboratory investigations.
2. Gain an understanding of the big ideas as articulated in the AP Chemistry Curriculum Framework.
3. Apply mathematical and scientific knowledge and skills to solve quantitative, qualitative, spatial, and analytic problems.
4. Apply basic arithmetic, algebraic, and geometric concepts.
5. Formulate strategies for the development and testing of hypotheses.
6. Use basic statistical concepts to draw both inferences and conclusions from data.
7. Identify implications and consequences of drawn conclusions.
8. Use manipulative and technological tools, such as Vernier Probes.
9. *Learn to think critically in order to solve problems.*

Textbook:

Brown & Lemay. *Chemistry: The Central Science*, 13th Ed. Pearson, 2015.

The online textbook and resources can be accessed through [masteringchemistry.com](https://www.masteringchemistry.com).

Instruction:

Instruction will be delivered in the form of lectures, internet-based tutorials, cooperative learning exercises, and laboratory work. To have enough time for labs and exams, students are responsible for completing practice problems as homework. Lectures include AP testing strategies and class time will be allotted for working released AP test questions. Students are required to utilize *MasteringChemistry.com* to complete content reinforcement activities such as Dynamic Study Modules.

Tests:

Tests are formatted in AP style. Students will become acquainted with AP multiple choice and free response questions and how to properly complete them. All units will be assessed through formative and summative assessments to monitor student comprehension. A comprehensive, standardized semester exam is administered at the end of the fall semester and at the end of the year.

Laboratory Work:

All of the laboratory experiments in this course are hands-on. Students will collect, process, manipulate, and graph data from both qualitative and quantitative observations. Inquiry is emphasized in many of the experiments that students complete. Laboratory work requires students to design, carry out, and analyze data using guided inquiry principles. All labs require data analysis questions to be completed and submitted for grading. Most laboratory experiments are intended to be completed in two or three class periods.

AP Exam Review:

The two-three weeks prior to AP exams will be utilized for course review. AP review will focus on previously released AP Chemistry exam materials.

Materials Required:

Organizational device, i.e. a binder or pocket folder. Writing utensils. Scientific calculators are provided for classroom use, but students may wish to have their own calculator for use at home.

Grading:

Minor: 30% of Grading Period Average

Daily work consists of individual & group assessments, digital assignments, and homework.

Students will be required to complete weekly assignments on their own time to enhance learning, time will be allotted in class to discuss and check for understanding on these assignments.

Multiple short assessments (Show What You Know) will be administered to assess learning and to determine necessary pace of material being covered.

Labs consist of pre-lab reading and assessment; data collection & organization; and data analysis & conclusions.

Post-lab quizzes will be utilized to assess students' comprehension of targeted experiment objectives.

Tests: 70% of Grading Period Average

Students will be held accountable for material covered during a unit and will be assessed through a written test. Tests are formatted in the AP format consisting of multiple choice and free response questions.

Prior to all tests, students will be instructed as to what material they are responsible for reviewing.

Test corrections are allowed and encouraged for remediation and to recover up to 25% of points missed.

Students must attend tutorials to complete test corrections. Corrections must be submitted by the next unit test date.

FORMAT FOR AP CHEMISTRY TEST CORRECTIONS

The use of evaluations in this class is part of the process of learning the subject of chemistry. A test is not the end of the unit, but an opportunity to evaluate what you have mastered and what areas you still need to improve. This is particularly relevant in a course like Chemistry, where the material is cumulative.

If you are unhappy with the grade you receive on a test, you may re-do the problems that you lost points on to get points back. You may earn up to 25% of the points you missed back if all corrections are done correctly. To complete corrections, you must follow this procedure:

INSTRUCTIONS:

1. All corrections must be made on separate paper. Corrections made on the test itself will not be considered. They must be handwritten.
2. To receive credit back, you MUST have each of the following three parts represented, whether you are correcting a multiple choice or a free response problem.
 - A. Rewrite the question into a statement including the correct answer.
 - B. An explanation of the science behind the correct answer.
A restatement of the original correction does not count.
If the problem was mathematical, show all the work necessary for the correct answer.

Test corrections must be neatly written. I expect to see units canceling properly, significant figures done right, etc. If I have to puzzle over your handwriting, I just will not award points.

- C. A statement of what you did wrong initially.
"I guessed" is not acceptable. "I should have studied better" or "I should have known the answer" is NOT sufficient.

3. Corrections must be stapled to the front of your original test.

District Grading Policy:

All grading will follow the SAISD grading guidelines. Please follow the hyperlink above to refer to the district policies.

Late Work Policy:

All assignments will be given a due date. Homework and lab assignments are expected to be turned in on time, the district late work policy will be utilized.

Policy for Make-Up Assignments:

As per district policy, students have the number of days absent plus one to make up missed work (The counting begins the day the student returns to class). It is the student's responsibility to get and complete make-up work. Work that was due on the date of the absence is due upon the return of the student. Make-up work is work that was assigned while the student was absent.

Expectations in the Classroom:

1. Be on time
2. Be respectful.
3. Complete assignments by due date.
4. Students are responsible for make-up work.
5. Read, learn, and follow the Lab Safety Guidelines.
6. No cell phone usage.
7. Student Handbook is used for discipline guidelines.

Tutorials:

Students are highly encouraged to attend weekly tutorials.

I offer open tutorials every morning before school, every day during B-Lunch, daily during Bobcat Block, and after school on Wednesdays in my classroom (Tucker 224).

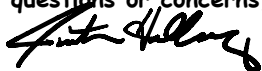
Conference Period: 4th Period (11:47 - 12:36)

Phone: 325- 659-3434 ext. 258

Email: justin.hollway@saisd.org

If there are any questions or concerns, please feel free to contact me.

Justin Hollway



Principal