



AP Chemistry Syllabus

<u>Classroom Information</u>	<u>Contact Information</u>
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COURSE DESCRIPTION:

AP (Advanced Placement) Chemistry is a second year high school chemistry class designed to be the equivalent of a first year college level general chemistry course in both scope and rigor. The depth of understanding and range of topics covered extends beyond and builds upon the topics taught in the first year high school course. A college level textbook is used and the curriculum follows that prescribed by the College Board in the **AP Chemistry Curriculum Framework**. Nine topics are emphasized in the course: Atomic Structure and Properties, Molecular and Ionic Compound Structure and Properties, Intermolecular Forces and Properties, Chemical Reactions, Kinetics, Thermodynamics, Equilibrium, Acids and Bases, Applications of Thermodynamics.

Mathematical and graphical analysis are an inherent part of the course of study, thus it is assumed that all students taking the course have a mastery of higher level algebra skills. Investigation and communication skills are emphasized. Students will be engaged in hands-on inquiry and lab activities and required to communicate their understanding of chemical concepts in written lab reports, short essays on exams as well as orally in class presentations. A minimum of 25% of the time is devoted to laboratory work. The laboratory experience provided will include guided-inquiry investigations as well as the more traditional procedural-driven type experiments.

COURSE GOALS:

Students will:

1. Gain an understanding of the nine overarching topics and their essential understandings as articulated by the AP curricular framework.
2. Develop analytical reasoning skills and laboratory/science practice skills.
3. Apply their content knowledge and skills to solve quantitative and qualitative problems.
4. Be able to effectively communicate their understanding of chemistry concepts and scientific methodology, in writing, orally and graphically where applicable.
5. Be prepared to take and pass the AP Chemistry Exam in May.
6. Emerge with study skills necessary for academic success at the college level.

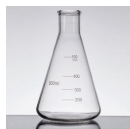
Recommended Supplies:

- Bound Notebook- You will need to keep ALL your paper based work in a spiral bound notebook that is used ONLY for science. Notebooks will be collected for grading the day of the exam. Assignments will receive stamps for full or partial credit.
- Pens for the notebook assignments and pencils for quizzes and tests.
- Scientific calculator is optional since we will have some in class, but it will be very useful for homework.
- Glue-stick/ Tape/ Stapler is optional since we will have some in class, but will be very useful for adding handed out documents to the science notebook.

ACADEMIC GRADES: Semester System (2 progress reports and 1 report card per semester)

Your academic grade will be based on the number of points you have earned out of the total number it is possible to earn; NO ROUNDING. At any given time, the following scale will determine your current grade:

<u>Grading Scale</u>	<u>Grading Categories</u>
A = 100% to 90.0% B = 89.99% to 80.0% C = 79.99% to 70.0% D = 69.99% to 60.0% F = 59.99% or lower	Assessments = 65% Labs = 25% Homework, Classwork= 10%



Periodically, student grades will be updated on Infinite Campus. It is the student's responsibility to make sure all assigned work is completed. Keep all papers to make sure you have received credit due, at least until you have a current grade report.

Homework/ Study Time: AP Chemistry is a demanding and challenging course which requires practice. Students are expected to spend approximately one hour of time outside of class per day on chemistry. This includes reading the textbook, watching lecture videos while taking notes, completing released AP exam questions, and preparing for and completing lab work. Students will be required to solve numerous problem sets from the text during class. Reading the textbook in addition to watching the lecture videos are critical for understanding and success on the problem sets. Homework will be assigned almost every day, kept in the notebook, and stamped for completion.

Digital Lab Reports: Each student is required to type the lab report for each formal investigation. A handout will be provided to students which details the specific requirements and format for the document. Each investigation will require: the title and date of the experiment, its purpose and brief background of key concepts, a procedural outline, data tables, calculations and/or graphical analyses, conclusions and error analysis where appropriate. Some investigations may have a pre-lab which is checked off before the lab.

Quizzes: Typically once or twice each unit, a short individual or group quiz will be given, as a formative assessment, to gauge understanding and provide feedback. There may be pop quizzes but they are usually done in groups.

Tests: Each unit will have a TIMED summative assessment which includes multiple choice and free response questions requiring short answer explanations, experimental design/data analyses, mathematical calculations/problem solving, and particulate representations. Released AP exam questions or similar items will be included when appropriate. A final exam will be given each semester which is cumulative in nature.

Collaborative Groups: Students will work with others at their table in "table teams" of varying sizes to practice communication skills and promote understanding through cooperative learning. Teams may be asked to present solutions to homework problems, prepare and teach a portion of a lesson or review session, share lab strategies and results, or take a quiz together. The goal is to allow students to talk about the chemistry content and help each other learn, in a cooperative atmosphere.

Remediation: Missing/ late work will be accepted for partial credit (70%) up until the unit test (after the unit test only 50%). The majority of the grade is from tests. Tests may be retaken for up to 70% (during after school tutorial). All students earning less than 70% in class will be recommended to attend all after-school tutorials.

Tutorial: Tuesdays from 2:45PM-3:45PM. Tutorial time can be used to make up absent work (such as a test or lab), retake a test or quiz for a higher grade, or get help completing homework/ studying for a test. Additionally, the school has a new FREE ONLINE tutoring service called paper, accessible 24/7 at

<https://app.paper.co/login/student> where students can log in with their school google account and get help with any subject. Finally, take advantage of resources on Mrs. Addy's website like Khan academy videos etc.

CITIZENSHIP GRADES: Citizenship grades are based mostly on your attitude and behavior in class. Your level of work effort and promptness (no tardies) also affect your citizenship grade. The following are general guidelines that we use to determine your citizenship grade. O = outstanding, S = satisfactory, U = unsatisfactory.

ABSENCES & TARDIES: If you have an **excused** absence you may make up any missed work. Make-up work is due the day after your return to class (unless other arrangements are made). All assignments will be posted on Schoology and Handouts for the week will be kept in a file box by the door. It is **YOUR** responsibility to see that make-up work is completed and submitted on time. I will not continually remind you to do make-up work.

AP Chemistry



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excessive.

Tardies are discouraged and may end up in loss of credit or detention if
Check schoology for work you might have missed.

Tutorial: Wednesdays from 3PM-4PM. Tutorial time can be used to make up absent work (such as classwork or labs), or get help completing homework/ studying for a test.

EXTRA CREDIT: I do not give extra credit assignments and grades are not rounded. Occasionally throughout the semester there may be bonus points on for challenge problems or review games, that can be beneficial to a student on the border of the next grade. Late passes are given each grading period, and if not used, can be turned in for extra points.

ACADEMIC HONESTY: You NEED to understand the term academic dishonesty because there are strict policies and consequences regarding academic honesty. ALL work that you present with your name will be assumed to be your own; this means there should be no copying or re-wording of another student's work. During **labs**, data is collected together, but each student must turn in their **own** write up. Be cautious about sharing pictures of your work with others, you may not intend for them to copy, but if they do you will also be at fault. If/when you are presenting work that is not original, you must acknowledge the use of such work by properly documenting the paper and/or the presentation. Any academic dishonesty by you on any part of your school assignments will result in failing that assignment, a disciplinary referral, and could result in failing the course.

THE AP EXAM: Monday, May 1st 2023, 12:00PM (Afternoon)

Part 1: 60 Multiple Choice (50%) - 90 minutes, with calculator, access to periodic table and formula sheet

Part 2: 7 Free Response (50%) - 90 minutes, with calculator, access to periodic table and formula sheet

Part 2A: 3 long questions (~15 -20 min each)- multi-concept, multi-part, including calculations and/or laboratory components

Part 2B: 4 short answer questions- single concept, multi-part, may include calculations and/or laboratory components

If you pass the AP exam your grade will be raised by one letter!

MEDIA RELEASE NOTICE:

Within this course, there are opportunities to share our learning beyond the classroom. The teacher or other school representatives will use still photography or videography to highlight student achievement, display student products, or chronicling classroom activities. Those images may be used on classroom or school websites or school-related social media accounts. Teachers, administrators, and other staff follow a clear set of Internet and Social Media Guidelines (bit.ly/GUHSDSocialMedia) when posting to a digital platform. If, for any reason, you do not want your child's work or likeness to be used by the classroom teacher or school, please complete the **opt-out section of the digital form below**. The options will look like this:

____ I do NOT want my student's classwork to be posted on school websites or social media accounts.

____ I do NOT want my student's likeness to be posted on school websites or social media accounts.

Signature: _____



CLASSROOM BEHAVIOR AGREEMENT

Please read and fill out the form inserted at the bottom of this page.

Students at West Hills High School are expected to understand and follow all school and classroom rules and regulations. They are also expected to inform their parent/guardian of these rules and explain them if necessary. The list of rules on this agreement is for Mrs. Addy's classes; it does not include all the rules for the school or for other teachers' classes.

Students will please:

1. Be respectful (treat others how you would want to be treated, respect school property by cleaning up after yourself and saving food and drink for outside the classroom- my class is by the garden and we do get ANTS).
2. Be responsible (be on time, be safe, be prepared with class materials, be engaged in class work and not on your phone or off task on your chromebook).
3. Be honorable (follow all school and district rules like the dress code and make sure all work is your own and you are not engaging in cheating).

Consequences are as follows:

1. Verbal warning and/or Seat change
2. Individual conference and/or call home
3. Detention and/or referral depending on number of infractions and severity

District/School Dress Code:

Summary of requirements:

1. Clothing, jewelry, and personal items shall be free of writing, pictures, or any other insignia which is vulgar, lewd, obscene, profane, directs hate toward a group, or sexually suggestive or which promotes the use of alcohol, drugs, tobacco, or other illegal activity.
2. Appropriate shoes suited to the classroom or workplace context must be worn at all times. (No flip flops for Physical Education classes or open toed shoes during chemistry lab days for example). Notice of labs will be given ahead of time to ensure students can choose proper footwear.
3. Clothes shall be sufficient to conceal undergarments. See-through tops and bare abdomens are prohibited.

[Full link to the dress code found here](#)

Consequences are as follows:

1. Verbal warning
2. Pass to office

Parents/ Guardians:

After reading through the syllabus, please complete this form:

https://docs.google.com/forms/d/e/1FAIpQLSeSwUqayUA9dutD60S1rFghkjxo3jinDVfJGDmZ1Ows5_8fiQ/viewform?usp=sf_link