

Mr. Weller

AP Chemistry

Room: C-205

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Course Website: See Canvas site for course info, assignments, labs, and test review items

****NEW:** <https://apstudents.collegeboard.org/join-your-class-online> Join Code: 4X4VAM

You will use this site for unit exams, review, and registering for the AP exam if you choose to take it. Note: there will be Daily videos posted on this site that would be great for extra help/review.

Course Objectives:

1. Gain an appreciation of how Chemistry relates with our everyday experiences.
2. Understand the basic principles of chemistry (ie. stoichiometry, periodicity, states of matter, solutions, kinetics, equilibria, thermodynamics, electrochemistry), which will prepare a student for further study and/or the AP Chemistry exam.
3. Learn proper lab techniques. Note: 25% of this course will be spent in lab related activities.
4. **ENJOY CHEMISTRY!**

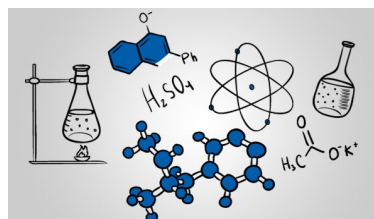
College Credit:

Students can earn college credit for this course in one of two ways:

- 1) Take the AP Chemistry exam in May. Minimum score required and type of credit earned, vary by institution. Look up admission pages of the institution(s) you are interested in for more info.
- 2) Apply for EvCC credits. A student may earn 5 college chemistry credits for the year. See college/university admission pages to see how these might be transferred to the institution(s) you are interested in. Emails will be sent home to announce registration periods for these credits.

Materials:

General: Lab Journal (composition book preferred), calculator, pencil/pen/paper, planner
Chemistry Text: Chemistry, The Central Science, Brown and LeMay, 12th edition



Grading Scale (percentages are rounded):

A	93% +	A-	90-92%		
B+	87-89%	B	83-86%	B-	80-82%
C+	77-79%	C	73-76%	C-	70-72%
D+	67-69%	D	60-66%	F	below 60%

Attendance:

The expectation is that you will attend and be on time to each live Zoom. Small groups time will primarily be used for those who need extra help/time completing course tasks. Office hours will be for those who have questions and/or need clarification on anything relating to the course.

Expectations:

Chemistry is all about **relationships!!!** You will explore in this class the chemical relationships and the laws which govern matter; but just as important will be the relationships you will build with your peers. Being a good lab partner and finding good study buddies for homework and/or studying for exams will help you get the **most** out of this class.

Following is the nitty gritty which I hope you will have well under control.

1. Students abide by laboratory policies. This includes **no eating or drinking** (except for water) in the lab areas.
2. Students are **Respectful** of their peers, instructor, and school.
3. Students are **Responsible** for their learning. Current grade status will be available online. It is the student's responsibility to stay current with coursework, and to see the instructor with any concerns.
4. Students exhibit **academic integrity**. Students caught cheating will receive a zero on the assignment/lab/exam.
5. Students come early (I am here usually no later than 6:30am) or attend Panther Period to get extra help and finish/make-up labs and exams.
6. ****NEW** Cell phones AND ALL** other personal connected electronic devices will be turned off and put away while in class and during instructional time. Any exceptions to this will be dictated by a health/other individual educational plan or by a specific lesson requiring their use.
7. Abide by all other aspects of the student handbook.

Class Format:

Homework – will be assigned daily. Although the homework will not be collected until the day the test is given for each unit, **success** in the course will in large part be determined by how well the student is **prepared to discuss** problems/challenges on the **previous** night's assignment. Did I **impress** on you, this is a vital **KEY TO SUCCESS?!!!!!!**

Bell Activity- students may be called upon at the beginning of class to provide answers and explanations to the conceptual portions of the homework only.

Assessments –An exam will be given at end of each unit, consisting of multiple-choice questions and 1-3 free response questions. Some exams may be given via AP Classroom, so please make sure you register.

Labs – Generally, labs will occur each Thursday-Friday, except weeks when there is a unit exam

Extra Credit – There will be 1 opportunity per semester to do an extra credit assignment on 2 units we will not have time to cover in class.

AP Chemistry Course Outline

I. Content

- Unit 1 - Review of General Chemistry, Electronic Structure, Periodicity – Chp 1-3,6,7
- Unit 2 - Molecular and Ionic Compound Structure/Properties – Chp 8-9
- Unit 3 - Intermolecular Forces and Properties – Chp 4,10-11,13
- Unit 4 - Chemical Reactions (this unit will be integrated with the other units)
- Unit 5 - Kinetics – Chp 14
- Unit 6 - Thermodynamics – Chp 5
- Unit 7 - Equilibrium – Chp 15,17
- Unit 8 - Acids and Bases – Chp 4,16
- Unit 9 - Applications of Thermodynamics – Chp 19-20

II. Extra Credit Topics

- A. 1st Semester: Chp 21, Nuclear Chemistry
- B. 2nd Semester: Chp 25, Organic Chemistry

III. The AP Chemistry Exam and Beyond

- A. Review for Exam
- B. AP Exam – May 6
- C. Current chemistry events and problems project
- D. Other labs