

AP CHEMISTRY COURSE SYLLABUS
Spring Semester 2020 - Mr. Gambrell

TEXTBOOK: Chemistry, Zumdahl, Zumdahl, DeCoste, 10th edition (2018)

SUPPLIES: notebook, calculator, writing utensil

CONTACT INFO:

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GRADING PROCEDURE:

ASSESSMENTS - 60% (Tests/Quizzes)

DAILY GRADES - 30% (MC/FRQs, HW Checks, Labs)

FINAL EXAM 10%

GRADING SCALE:

A 100-90

B 89-80

C 79-74

D 73-70

F 69 and below

COURSE EXPECTATIONS

Be respectful, be prepared, and be on time.

All work is to be completed on time. If a student is absent, it is his/her responsibility to find out what was missed and to make it up. Students with excused absences have one day for each day of an excused absence plus one additional day to turn in make-up work and receive credit. If you have an unexcused absence, you may not be permitted to make up work.

Laboratory procedures: Laboratory procedures and expectations are posted in the classroom as well as agreed upon by students through a written, signed contract.

Due to safety concerns, students who fail to follow these procedures will not be allowed to participate in laboratory activities and will be given alternate assignments. Students are responsible for the replacement or repair of damaged equipment. Closed toe and heel shoes that cover the foot must be worn for each lab.

Failure to wear proper shoes will result in a penalty for the lab.

Lab Notebook

Every student will keep and maintain a composition lab notebook. This notebook will be used with all labs and will be used to record and analyze data. These will be collected and graded 3-4 times throughout the semester. I will give you a rubric the first week of school.

Academic Honor

Any assignment containing plagiarized work will receive zero points (that includes any work copied, etc., from another student or source). Students allowing their work to be copied will also receive zero points. I encourage you to **work** together, not copy – know the difference.

Tutoring

I am available in my classroom every morning, except when I have a meeting, to help students with problems they are experiencing in class and for students to make up work before school. I coach and Track in the afternoons so coming in before school is the best time for me to meet with students who need extra help or who need to make up a test. If a student cannot come in before school then they will need to speak with me to make other arrangements. The school also offers after school tutoring on Tuesdays and Thursdays.

TOPICS TO BE COVERED: this is a tentative outline and is subject to change

Chapter	Chapter Title	Page #
1	Chemical Foundations	1-34
2	Atoms, Molecules & Ions	35-67
3	Stoichiometry	68-115
4	Types of Chemical Reactions & Solutions	116-163
5	Gases	164-209
6	Thermochemistry	210-250
7	Atomic Structure & Periodicity	251-299
8	Bonding: General Concepts	300-353
9	Covalent Bonding: Orbitals	354-382
10	Liquids & Solids	383-432
11	Properties of Solutions	433-466
12	Chemical Kinetics	467-509
13	Chemical Equilibrium	510-547
14	Acids & Bases	548-598
15	Acid-Base Equilibria	599-639
16	Solubility & Complex Ion Equilibria	640-663
17	Spontaneity, Entropy & Free Energy	664-702
18	Electrochemistry	703-742

Unit	Topics	Chapters
1	Atomic Structure and Properties	1, 2, 7
2	Molecular & Ionic Compound Structure & Properties Intermolecular Forces & Properties	5, 8, 9, 10, 11
3	Chemical Reactions & Stoichiometry	3, 4
4	Thermodynamics	6, 17
5	Kinetics Equilibrium	12, 13, 16
6	Acids & Bases	14, 15
7	Electrochemistry	18
AP Exam	All Topics	All
Final Exam*	All Topics	All

*students who register for and take the AP exam are exempt from taking the final exam

**quizzes will be given periodically throughout each unit as determined by Coach Gambrell