



AP Chemistry

Mrs. Sarenia Johnson

Course Syllabus 2024-2025

Course Description and Objectives

Chemistry AP is a second-year chemistry course that is the equivalent of two semesters of college general chemistry and its laboratory (Chem 111 & 112 - 8 credit hours). Topics include matter, solutions, thermochemistry, reactions, kinetics, equilibrium, acid-base equilibrium, and electrochemistry. This course is very rigorous, requiring additional hours outside of class time for laboratory work, reading, studying, and problem sets. Students should be motivated, independent, and responsible learners, and be prepared to take the AP exam in May.

Course and Exam Description

You can download the CED here: <https://apcentral.collegeboard.org/courses/ap-chemistry/updates-2024-25>

Textbook

Modified Mastering Chemistry for Chemistry: A Molecular Approach 6th Edition for Advanced Placement

Author(s): Tro, Nivaldo

Textbook ISBN-13: 9780137657810

Unit/Concept Names

First Semester

- Unit 0: Think Like a Scientist
- Unit 1: Atomic Structure and Properties
- Unit 2: Compound Structure and Properties
- Unit 3: Properties of Substances and Mixtures
- Unit 4: Chemical Reactions
- Unit 5: Kinetics
- Unit 6: Thermochemistry

Second Semester

- Unit 7: Equilibrium
- Unit 8: Acids and Bases
- Unit 9: Thermodynamics and Electrochemistry

Course Assessments/Activities:



· **Tests:** Students will complete a pre-test to show what they may know before the start of the unit, and a post-test at the end of the unit to demonstrate what they have learned. At the end of Semester B, you will be requested to complete the AP Exam for Chemistry.

· **Projects:** I will frequently make cooperative learning assignments that the student will complete in teams with each member taking a part of a larger task or with all members reaching consensus about the same task. As a rule, when working in teams, each student is required to turn in his own paper. Students may also be assigned long-term individual projects as well (i.e. Science Fair, Brochures, Reports, Presentations).

· **Class Activities:** Students will maintain an Electronic Portfolio (Canvas) that will contain daily warm-up questions, notes, vocabulary, and science aids.

· **Quizzes:** Students will complete a quiz and/or formative at the end of each lesson to show their level of progress.

· **Homework:** Students will be assigned homework as needed to further develop their understanding of a topic or as practice at home.

· **Labs:** Students will conduct lab activities to discover and understand the Science Units more effectively; lab safety techniques will still be highlighted.

Late Work Policy

Late Policy

Late work will be accepted. There will be 5 points deducted daily for 5 days. After the 5th day, it is up to the teacher's discretion whether it will be accepted.

In case of an absence, the work will be due upon the student's return. Missed tests and quizzes will be scheduled. Please see me, or a peer buddy for any missed work or assignments.

JUST DO IT!

Materials

- ▶ 1 ½" 3-ring Binder
- ▶ Loose Leaf Paper
- ▶ Document protector covers
- ▶ Tab Dividers for each Unit
- ▶ Pencils, Pens, Highlighters
- ▶ Handheld pencil sharpener
- ▶ Basic Scientific Calculator (should cost no more than \$12)
- ▶ School Issued Chrome Book



- ❖ Work will be primarily digital except for lab worksheets.

Evaluation

- Summative Assessments: 40% (Unit & Chapter Test, Projects, Tasks)
- Formative Assessments: 60% (Quizzes, Class work, Graded Writing Assignments, Group Work, etc.)

Grades: Student performance shall be recorded on the permanent record using numerical grades. These numerical grades represent the following letter grades:

- A Shall represent an average of 90-100
- B Shall represent an average of 80-89
- C Shall represent an average of 75-79
- D Shall represent an average of 70-74
- F Shall represent an average of below 70

Classroom Procedures & Expectations

1. Be a S.T.A.R. (Student Taking Academic Responsibility).

YOU are responsible for your education!

YOU determine your success or failure!

2. High expectations – ALL DAY, EVERY DAY!
3. Be PREPARED for each synchronous session with required materials on time every time.
4. Stay focused and stick to the topics.
5. Submit all assignments on time.
6. Adhere to all policies, rules, and regulations outlined in the RCSS student handbook.
7. Remember that you leave a digital footprint, so be careful what you put out there.

Richmond County NEW CELLPHONE/ELECTRONIC Policy:

Cellular phones, smart phones, smart watches, any type of headphones, earbuds, and other devices or accessories used to electronically communicate.



The use of cell phones, electronic communication devices and/or accessories is always prohibited for students during the instructional day, which is defined as the time the student arrives on campus until the end of the school day and/or the time the student leaves campus. The instructional day includes, but is not limited to, class periods, class changes, study halls, and any other structured or nonstructured instructional activity that occurs during the normal school day. Students are not allowed to use cell phones in the common areas, hallways, restrooms, locker rooms or any other areas during the instructional day.

My contact information:

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