



Charlotte High School

Advanced Placement Chemistry

2020 – 2021



Instructor: Mr. Mario D. Iorfida

Room: G 217

Email: Mario.Iorfida@yourcharlotteschools.net

Phone: 575-5450, ext. 1724

Course Description:

- Advanced Placement (AP) Chemistry is designed to be the equivalent of a first-year college general chemistry course.
- Students who enroll in AP Chemistry display a high level of competency in honors chemistry and a strong desire to pursue a major in the sciences as a college student. The course is designed around the content framework provided by the College Board.
- AP Chemistry is different from Chemistry Honors in that it goes more in depth with some topics as well as covers topics that were not addressed during the honors class.
- In order to be successful, the student should demonstrate a high level of commitment, motivation, and academic maturity.
- All students enrolled in AP Chemistry will take the AP exam administered by the College Board. The AP Chemistry Exam is scheduled for **Friday, May 7, 2021 at 8:00 AM.**

Course Overview:

- The topics are covered using a discussion-based model based on PowerPoint presentations supplemented with assignments that integrate AP type exam questions. Emphasis is placed on problem-solving skills that are needed for the types of problems that will be encountered on the AP exam. Students are encouraged to be accurate and succinct in their writing when answer questions about a topic.
- Laboratory work will be integrated throughout the course. Student laboratory investigations are designed to emphasize conceptual understanding coupled with inquiry and reasoning skills. This work helps form the foundation for student understanding of the topics presented during lecture.
- The laboratory contains appropriate equipment, probe-ware, and chemicals necessary to provide a college-level lab experience. Students will be able to physically manipulate equipment and materials in order to make relevant observations and collect data; use the collected data to form conclusions and verify hypotheses; communicate and compare results both informally with others.

Classroom Policies and Attendance:

- All assignments will be submitted using the Canvas LMS system.
- Late work will **NOT** be accepted. Students completing homework assignments when class is in session, after it was due, will **NOT** be allowed to turn in that assignment.
- Please be in the classroom, on time and prepared to begin class. You should be seated and ready to work when the bell rings. There will be assignments that you will have to begin when class starts.
- Any student involved in dishonest activities in tests or other assigned activities will receive a grade of zero (0) for that assignment.
- Questions and discussion help facilitate the learning process; class participation is highly encouraged.
- Cell phones and music media is prohibited unless it pertains directly to the assignment at hand.
- The attendance policy of the Charlotte County Public Schools states that absences may be unexcused or excused (please see Code of Student Conduct for approved documentation).
- The make-up policy for work missed due to absence follows the Code of Student Conduct of Charlotte County Public Schools.
 - a. Students are eligible to make up classwork and homework due to absences.
 - b. Students are allowed two days for each day absent to make up work.
 - c. In the case of an excused absence, there is no academic penalty unless the work is not made up in the allowable timeframe in which case an academic penalty or a zero may be assigned for the work missed.
 - d. In the case of an unexcused absence, there may be an academic penalty of up to 30% provided the work is made up within the allowable time frame. If the work is not done in the timeframe then a zero may be assigned for the work missed.
 - e. Exams, quizzes, and labs should be rescheduled with the instructor as soon as possible.
- Please keep in mind that during these uncertain times there is flexibility for students when it comes to student work. Contact your professor as soon as possible if an extended absence is expected due to illness so proper arrangements can be made.

Required Materials:

- School issued Chromebook (fully charged)
- Scanner app for cell phone (for electronic submission of hand-written work)
- Mask/face covering (Covering mouth and nose at all times)
- Writing utensils (pen, pencils, highlighters, etc...)
- Binder or folder – to store in-class practice work, printed materials, periodic table, etc.
- Loose leaf paper (if you choose a binder) or notebook (bound or composition) for notes, homework, etc.
- Graphing calculator (no QWERTY please)
- Copy paper (for use at home to print materials as needed)
- Earbuds or headphones for use with Chromebook

Assessments and Grades:

Grade Scale:	A: 90 – 100
	B: 80 – 89
	C: 70 – 79
	D: 60 – 69
	F: < 60

The student grade each quarter is based on total points earned in the following areas:

- **Exams:** Exams are administered by unit topic. Each exam is comprehensive meaning that material will be seen repeatedly on a regular basis.
- **Quizzes:** Quizzes are to ensure understanding of topics within a unit.
- **Laboratory work:** Experimentation and lab reports (hands-on and virtual) as assigned.
- **Homework/AP Practice Problems:** Problems assigned to enhance comprehension throughout the duration of the course.
- **On-line Practice:** Problems assigned through AP Classroom and many other online resources.

The semester grades (1 and 2) for the course will be calculated following the policy set forth by Charlotte County Public Schools, which is as follows: 35% quarter, 35% quarter, and 30% standards based exam given at the end of each semester.

Textbook, Lab Manuals, Online Resources:

Tro, Nivaldo J., **Chemistry – A Molecular Approach AP Edition, 5th Edition**. Pearson Education, 2020.

Brown, Theodore L., et al., **Chemistry – The Central Science AP Edition, 12th Edition**. Upper Saddle River, NJ: Pearson Prentice Hall, 2012.

AP Chemistry Guided Inquiry Experiments: Applying the Science Practices. College Board, 2013.

Advanced Chemistry through Inquiry. PASCO Scientific, 2015.

AP Classroom. College Board online – apclassroom.collegeboard.org