

AP Chemistry		
Location	Room 207	
Instructor	Miss Hong	
Planning Period	2:00 – 2:43	Parent Teacher Conferences may be scheduled before school from 7:45 to 8:00 or during the planning period.
Email	shong@mercerc.k12.pa.us	
Google Classroom	Code: mor7wod	
Prerequisites	Instructor approval, Algebra II or Geometry as well as Academic Chemistry	
Description	<p><i>AP Chemistry</i> is open to students who have demonstrated an interest and an aptitude for the science of chemistry. <i>AP chemistry</i> is based on the College Board's curriculum, and is the equivalent of a first-year college Chemistry course. This is an academic, quantitative chemistry course that is designed to help students gain a depth of understanding of fundamentals and a reasonable competence dealing with chemical problems.</p> <p>Chemistry is the study of atoms and molecules and how they interact according to physical laws. Such study is applicable to your everyday life and this will be demonstrated repeatedly throughout the year. The course will cover topics such as modern atomic theory, molecular bonding and hybridization theories, organic chemistry, stoichiometry, thermodynamics, kinetics, equilibrium, reduction and oxidation, electrochemistry, nuclear and descriptive chemistry. All topics will have a strong emphasis on chemical calculations. In addition, a rigorous laboratory component supplementing all lecture topics must be completed as part of the course requirements.</p>	
Texts Used	<u>Chemistry</u> , A Molecular Approach. Nivaldo J. Tro published by Pearson, 3 rd Ed. (2014)	
Homework	Homework will be assigned regularly. It will provide students an opportunity to practice concepts taught in class that day or be a review of previously covered material. It is expected that each student will give his/her best effort on	Homework Policy Students will have two (2) homework passes a quarter. If you do not complete the homework, you will not get the points for the assignment. I will accept homework one day late at 50% credit.

	<p>homework assignments. Homework will be collected and graded every time. In addition to written homework, students should be regularly reading the text book and reflecting on what we learned in class. Please ask for clarification if topics do not make sense. As this is an AP course, it is expected for students to spend about one hour outside of class everyday on their work for this class.</p>	
<p>Grading</p> <p>96.5 A+ 92.5 A 89.5 A- 86.5 B+ 82.5 B 79.5 B- 76.5 C+ 72.5 C 69.5 C- 66.5 D+ 62.5 D 59.5 D- Below F</p>	<p>Grades are based on percentage system and the number of assessments and grades will vary from semester to semester. Evaluations will be in (but not limited to) the following forms:</p> <p>Test/Quizzes (45%)</p> <p>Labs (25%)</p> <p>Homework (20%)</p> <p>Classwork (10%)</p> <p>At the end of the year students may take the AP Chemistry exam if they desire. This exam is optional with the cost of the exam being paid by the student.</p>	<p>Academic Integrity</p> <p>"Students caught cheating, plagiarizing, copying homework and/or test, quizzes, and using a paper from the Internet will be given a "0" (zero) on that assignment. In addition, their name will be reported to the office and filed in the event of future violations. Repeated violation could result in removal from class and a non-passing grade."</p> <p>Late Assignments</p> <p>Late assignments will result in a one letter grade deduction except homework where it is half credit.</p>

<p>Classroom Rules</p>	<p>Be on time. Be prepared for class with your notebook, calculator, textbook and a writing utensil on a daily basis. Treat others (teacher and students) with respect.</p> <p>Students will receive participation points each day for following the rules, failure to do so will result in a warning, loss of points, phone call home, and lastly detention.</p> <p>Students must also read over and sign a laboratory contract where specific instructions will be reviewed on lab day.</p>	<p>Make-Up Work "Students on a pre-approved trip of more than one day will be expected to makeup any work minimally on the second full day upon the student's return up to a maximum of five days. Students are required to get all missed work prior to pre-approved absence.</p> <p>For one day or one period - school related absence (athletics/academic games, etc) - it is the student's responsibility to make up the work upon their return to the classroom. It is recommended that they see the teacher ahead of time to determine what they will miss while they are gone."</p>
<p>Required Materials</p>	<p>Students are required to have a three ring binder, notebook, and a calculator</p>	
<p>Additional Help</p>	<p>Students should seek help if they need extra assistance. I am available 9th period as well as after school.</p>	

OUTLINE OF MATERIAL COVERED IN THIS CLASS

Week #	Topic	Chapter(s)
1 – 3	Foundations of Chemistry, Atoms, Molecules, Ions, Stoichiometry	1-3
3 – 5	Types of Chemical Reactions and Solution Stoichiometry	4
5 – 6	Kinetic Molecular Theory	5
6 – 8	Thermodynamics	6 & 16
9 – 11	Atomic Structure, Periodicity and Nuclear Chemistry	7 & 18
11 – 13	Bonding	8 & 9
14 – 15	Liquids And Solids	10
16 – 17	Solutions	11
18	Midterm Exam	
19 – 21	Chemical Kinetics	12
22 – 23	Equilibrium	13
24	Acids and Bases	14
25 – 28	Acid-Base Buffer, K _{sp}	15
28 – 29	Electrochemistry	17
30 – 32	Transition metals and Coordination chemistry	21
33 - 35	Organic Molecules and Reactions	22
	Review for AP Exam	
	<i>Chapters may be studied sequentially or not, depending on material.</i>	
	<i>This syllabus is subject to change at the discretion of the instructor.</i>	