Mr. Petras **AP Chemistry Syllabus** **2018-2019**

Our Mission: All Hornets are capable of success, No Exceptions!

Our Vision: With P.R.I.D.E. (Participation, Respect, Integrity, Diligence, and Empathy), Herndon High School seeks to be an institution that empowers students to become lifelong learners and productive citizens of the global community.

Objective: This year I will further explain the subject of Chemistry and prepare you be successful on the AP Chemistry Exam. This course will focus only on the items tested on the current AP exam. Many topics covered in your text book will not be covered or tested in class since they will not be tested on the AP exam.

Honor Code and Plagiarism Statement

The Honor Code:

Students attending Herndon High School are expected to conduct themselves honorably in pursuit of their education. Cheating, plagiarism, and fraud violate ethical and moral rules of conduct and will not be tolerated at Herndon High School.

Plagiarizing:

To use and pass off the ideas or writings of another as one's own. (The American Heritage Dictionary, page 1340.)

Examples including, but not limited to -

- Copying material directly from published material or a website without providing documentation and a works cited page
- Turning in an assignment or project as your work when it was written in part or entirely by someone else
- Making up sources or including sources not consulted in works cited page.
- Altering, restating, or paraphrasing another person's words, ideas, or work without giving credit or acknowledging your sources. This would include but not be limited to text, music and video clips, photos, graphics, and artwork

Class web pages: I will post homework assignments, worksheets, class news and other important class resources on my web site. In addition, tutorials and on-line quizzes on many topics from class are available. You must register to take on-line quizzes. http://www.sartep.com/chem

Everyday Required Materials: 3-ring binder, notebook, pens, pencils, highlighters and a scientific calculator for each class

Textbook: Brown, LeMay et al; Chemistry: The Central Science 12th edition Replacement cost: $152.97 You do not need to bring your books to class.

Lab Contract: Please have student and parent read, sign, and return. http://www.sartep.com/chem/worksheets/pdfs/0_02.pdf

Attendance Policy: Herndon High School and Fairfax County Public Schools attendance policy will be enforced. https://herndonhs.fcps.edu/about/attendance

Contact Information:

Anthony Petras (Class Instructor) apetras@fcps.edu Amanda Hudson (Science Administrator) aahudson@fcps.edu

Grading:

Letter Grade/Percentage/Quality Points	**Quarter Grades**	**Final Grades**	
A (93-100) = 4.0	25% (Formative)	1st ¼	25%
A- (90-92) = 3.7	75% (Summative)	2nd ¼	25%
B+ (87-89) = 3.3		3rd ¼	25%
B (83-86) = 3.0	Best practices in grading support that homework is part of the	4th ¼	10%
B- (80-82) = 2.7	formative evaluation process; HHS teachers may count homework for	Midterm / Final	15%
C+ (77-79) = 2.3	up to 10% and the maximum weight for any given single assignment		
C (73-76) = 2.0	not to exceed 30% of quarter grade.		
C- (70-72) = 1.7			
D+ (67-69) = 1.3	***8 VAC 20-131*** Middle and secondary schools may consider the		
D (64-66) = 1.0	student's end-of-course SOL test score in determining the student's		
F (below 64) = 0.0	final course grade.		
NTI (0) Not Turned In			

Grades will be assessed through the following assignments:

1. Midterm & Final: At end of first semester and prior to the AP Exam.
2. Tests: One per unit
3. Quizzes: At least one per unit
4. Labs: One per unit
5. Homework: Nightly

Late work / Missing work:

Students are encouraged to demonstrate responsibility and turn all work in on-time. However, if for whatever reason, the student needs to turn in an assignment late (such as homework or class work), it will be accepted up to two class periods for a grade up to 75%. For all work that is not turned in by the original due date, **NTI** (Not Turned In) will be recorded in the gradebook (with a value of 0%). Should the student not turn in the work by the close of the late window, the grade will stay as NTI (0%).

Retake Policy:

Summative tests can be retaken and must be completed within two weeks of the original test date. In order to qualify for a retake, students must complete a review assignment prior to taking the retake test. The higher of the two test grades (original / retake) will be recorded in the gradebook. Retake scores will NOT be curved. Original test scores are curved.

Extra Help / Make up Work Policy:
Do not let yourself fall behind!!! If you are having trouble with the material, please schedule an appointment to meet with me as soon as possible. I am usually available before school each day from 7:30-8:00 and after school on Thursdays until 4:00 pm. Other times may be available by an appointment.

Classroom Rules and Advice:
*HHS Chemistry Department reserves the right to update or change this syllabus to meet the needs of the students.

- You are expected to arrive on time for all classes.
- If you are absent or tardy, it is your responsibility to find out what you had missed, including class work and any assignments. All assignments and worksheets are available at http://www.sartep.com/chem.
- If your absence is unexcused, you will receive a failing grade for any test, quiz, lab or activity that day.
- If your absence is excused on the day a test or a quiz is given, you will make it up during your next class period.
- You will have a maximum of one week to make up any missed lab or activity.
- Multiple consecutive absences will be given additional class periods to make up the missed work.
- You are expected to be considerate and respectful of both me and the other students in the class.
- Cell phones are expected to be out of sight and not in use unless told otherwise.

Below is a **TENATIVE** schedule of the chapters covered and exam dates in AP Chemistry last year. Extra time is built in to the end of third quarter to allow for adjustments to the schedule. An updated 2018-2019 schedule is being prepared and will be available soon.

Week 1: 8/28 – 8/31 - Chapters 3 & 4
Week 2: 9/4 – 9/7 - Chapter 4
Week 3: 9/10 – 9/14 - Exam: Chapters 1-4
Week 4: 9/17 – 9/21 - Chapter 5
Week 5: 9/24 – 9/28 - Chapter 5 & 6
Week 6: 10/1 – 10/5 - Chapter 6
Week 7: 10/9 – 10/12 - Chapter 13
Week 8: 10/15 – 10/19 - Exam: Chapters 5, 6 &13
Week 9: 10/22 – 10/26 – Chapter 14
Week 10: 10/29 – 11/2 - Chapter 14
End of First Quarter
Week 11: 11/7 – 11/9 - Chapter 14
Week 12: 11/12 – 11/16 - Chapter 15
Week 13: 11/19 – 11/20 - Chapter 15
Week 14: 11/26 – 11/30 - Exam: Chapters 14 &15
Week 15: 12/3 – 12/7 - Chapter 7
Week 16: 12/10 – 12/14 - Chapter 8 & 9
Week 17: 12/17 – 12/21 – Chapter 9
Winter Break 12/24 – 1/4
Week 18: 1/7 – 1/11 - Chapter 10
Week 19: 1/14 – 1/18 - Exam: Chapters 7-10
Week 21: 1/30 – 2/2 - Chapter 12
Week 20: 1/21 – 1/24 - Chapter 11
End of Second Quarter

Week 22: 2/5 – 2/8 – Chapter 16
Week 23: 2/11 – 2/15 - Chapter 17
Week 24: 2/19 – 2/22 - Chapter Test 11, 12, 16 &17
Week 25: 2/25 – 3/1 - Chemical Equations & Labs
Week 26: 3/4 – 3/08 - Chapter 22 & Labs
Week 27: 3/11 – 3/15 - Flex Dates & Eqn & Ch. 22 Test
Week 28: 3/18 – 3/22 - Review & AP Partner Quizzes
Week 29: 3/25 – 3/29 - Review & AP Partner Quizzes
Week 30: 4/1 – 4/4 - Review & AP Partner Quizzes
End of Third Quarter
Week 31: 4/17 – 4/20 - Review & AP Partner Quizzes
Spring Break: 4/15 – 4/19
Week 32: 4/22 – 4/26 - Review
Week 33: 4/29 – 5/3 - Final Exam
Week 34: 5/6 – 5/10 - **AP Exam 5/9/2019**
Week 35-39: 5/13 – 6/13 - Fourth Quarter Projects & Labs

Quarter 1	Quarter 3
Chapter 1: Chemical Foundations	Chapter 16: Spontaneity, Entropy and Free Energy
Chapter 2: Atoms, Molecules and Ions	Chapter 17: Electrochemistry
Chapter 3: Stoichiometry	Chapter X: Chemical Equations
Chapter 4: Solution Stoichiometry	Chapter 22: Organic Chemistry
Chapter 5: Gases	Numerous Labs
Chapter 6: Thermochemistry	Review for AP Chemistry Exam
Chapter 13: Chemical Equilibrium	
Chapter 14: Acids and Bases	
Quarter 2	**Quarter 4**
Chapter 14: Acids and Bases	Review for AP Chemistry Exam
Chapter 15: Applications of Aqueous Equilibria	Final Exam
Chapter 7: Atomic Structure and Periodicity	AP Chemistry Exam (5/7/2018)
Chapter 8: Bonding: General Concepts	Labs & Projects
Chapter 9: Covalent Bonding: Orbitals	
Chapter 10: Liquids and Solids	
Chapter 11: Properties of Solutions	
Chapter 12: Chemical Kinetics	