

Advanced Placement Chemistry 2013-2014

Syllabus for: Mrs. R. S. Hyre
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(look under Academics>Departments>Science>Staff>Mrs. R. Hyre)

Course Description:

The course develops skills in applying the models of chemistry along with the laboratory skills typically required in college chemistry. This course requires significant initiative, effort, and persistence on the part of the student along with prior knowledge of nomenclature, writing and predicting products for chemical reactions, atomic structure, and use of stoichiometry. This course examines kinetics, equilibrium and acid/base equilibria, electrochemistry, thermochemistry, and thermodynamics. The goal of the class is to provide students with the chemistry knowledge and skills required to take and pass the Chemistry Advanced Placement Exam (college credit determined by exam performance and policies of the college attended.) Prerequisites: Juniors and seniors who have successfully completed Honors Physics and Honors Chemistry.

Textbook: Chemistry The Central Science 10th Edition by Brown, LeMay, and Bursten, published by Prentice Hall.

Supplemental Reading: As assigned by the teacher.

Class Materials Required:

Students will need their textbook for each class. In addition, students will need #2 pencils, **BLACK** or **DARK BLUE** ink pens (using any other color will lose you points on the assignment), a notebook of any type for taking and keeping class notes and handouts, a separate notebook with graph paper for labs, black dry erase markers and other colors of your choice, and a flash drive. A **scientific graphing calculator** (preferably a TI-84 or its equivalent/better) is a must as the sharing of calculators will not be allowed.

Course Projects/Requirements: As assigned by the teacher.

Course Outline (tentative):

The course curriculum generally will follow the concepts as outlined in the table of contents in the textbook with some modifications as the teacher deems appropriate.

School Grading System: refer to Student Handbook.

Class Grading Procedures:

A student's grade is determined by points; the total number of points earned by the student is divided by the total possible, and converted to a percentage. Please see the student handbook for conversion of percentages to letter grades.

In general, grades will include the following:

Major tests (approximately 3 per quarter)	100 pts. ea.
Quizzes (every day)	10 pts. ea.
Lab reports (as needed)	50 pts. ea.

NOTE: Some tests, quizzes, and labs may be worth different amounts of points as the teacher deems appropriate.

Homework, extra credit, special grades: As a standard daily assignment, students should review each day's class notes and read the appropriate pages in the textbook as we cover that material. Also, any problems or questions pertaining to the material should be worked. Homework of this type is not normally checked. In place of daily homework checks, quizzes will be given on the material.

There is **no** extra credit work. Enough points for a good grade can be accumulated through doing the assigned work.

School Procedures for Make-Up / Excused absences: refer to Student Handbook page 18.

Teacher Specifics/Availability/Rules:

Due to the nature of the course, absences should be avoided if at all possible. If a student must be absent, it is **his/her responsibility** to get all class notes, information, and assignments. A previous absence is not normally an excuse for being "lost" in the next lecture. If a student is absent before a quiz, he/she is still responsible for the material, and must take the quiz. If a student is absent for two or more consecutive class days, it is best to contact the teacher by calling the school office.

Make up work is the student's responsibility. The makeup work is expected to be scheduled with the teacher within a reasonable time frame. Quizzes, because of their nature, **may not be made up**. At the end of each quarter, the lowest quiz grade will be dropped. A missed quiz would be one that is dropped. If you know you will miss a quiz due to a school function you may make arrangements to take the quiz **before** you leave. Talking during quizzes, tests, and exams and/or sharing of calculators will be interpreted as cheating and the offending parties will be given a zero on that quiz, test, or exam.

Due to the nature of the study of chemistry, one concept is built upon by the next. It is important that students do not forget earlier material as the year progresses. Do not throw away old notes and tests at the end of first semester, as this information will frequently be used during the second semester.

Students often feel that some extra help is needed in order to grasp class material. Extra help sessions can be scheduled with the teacher as needed. Please see me before or after school to schedule these help sessions.

All students are expected to read and follow the rules and policies as printed in the Handbook and Calendar. These do apply in chemistry class.

All personal business (i.e.: trips to the bathroom, trips to the water fountain, arranging rides or dates, etc.) should be conducted before or after **NOT** during class.

Lab safety rules will be emphasized and reviewed as needed throughout the year. Failure to abide by safety rules will result in loss of lab privileges, and a lab grade of zero will be given. Everyone in lab is responsible for the material and collection of data. Just because one's lab partner is not present the next day is no excuse for not having any data or information for the write up.