

OHHS Science Department

Course Syllabus



Course Name: AP Chemistry

Course Code: SCO52A, SCO52B, SCO52C

Description:

AP Chemistry provides an orderly development of the fundamental concepts and principles of chemistry with an emphasis on inquiry and critical thinking skills including: problem solving, mathematical reasoning, and experimental investigations. The breadth, pace and depth of material covered exceeds the standard high school Chemistry course, as does the college-level textbook, laboratory work, and time and effort required of students. Students are expected to take the AP Chemistry Exam at the end of this course.

Prerequisites:

- Successful completion of both semesters of Chemistry
- Teacher recommendation

Course Resources:

- Textbook: Brown, Theodore E., et al. (2015). *Chemistry: The Central Science* (13th ed.). New Jersey: Pearson Education, Inc.
- <https://www.masteringchemistry.com>
- Student responsibility: scientific calculator and composition book

Course Outline:

1. Atomic Structure and Properties
2. Molecular and Ionic Compound Structure and Properties
3. Intermolecular Forces and Properties
4. Chemical Reactions
5. Kinetics
6. Thermodynamics
7. Equilibrium
8. Acids and Bases
9. Applications of Thermodynamics

Major Assessments:

- There will be an exam following each instructional unit and a cumulative final.

Laboratory:

Chemistry lab will meet 7th period Thursday's if taking the class 5th period or 0 period Friday's if taking the class 1st period. The College Board requires that AP Chemistry have a double period for lab each week. These extended lab periods are necessary to allow time for completion of most labs.

Extra Help:

All students will be provided opportunities for tutoring after school.

Re-Do Policy:

“Re-Do” Policy is applicable only after a legitimate first effort! After we have negotiated that a rewind is needed the following will guide our efforts.

1. Daily Work – if completed on time can be attempted again for more credit.
2. Tests and Quizzes – students may retake tests and receive a new score commensurate with their effort if:
 - a. they attend after school tutoring.
 - b. they complete all assignments related to the test.
 - c. they complete additional work related to areas they did not show proficiency.
 - d. students explain solutions to all problems they missed on the original test before retaking test.
 - e. do retest within one week of getting original test results
3. Projects: Circumstances and time of year often dictate the opportunity to improve on a project. We will negotiate this opportunity on an individual basis.
4. All work must be completed by the end of a quarter. Revision of work will not be permitted from one quarter to the next.

Grading Scales		Weights	
A	90-100	Categories	Percentages
A-	85-89.9	Quizzes and Homework	30%
B+	83-84.9	Exams	50%
B	77-82.9	Labs	20 %
B-	75-76.9		
C+	73-74.9		
C	67-72.9		
C -	65-66.9		
D+	63-64.9		
D	55-62.9		
F	0-54.9		

OHHS Plagiarism Policy:

Any student, who knowingly turns in any work that has been done by someone other than himself or herself, and fraudulently represents it as his/her own, shall be considered to have cheated. Cheating also includes: aiding someone else in cheating, the use or preparation of written, pictorial, or other materials not authorized by the instructor during a test or assignment, the use of testing materials obtained previous to the test date, or plagiarism of any kind. Refer to individual teachers expectations for each class violation. Students found cheating will also be subject to an office referral, which could result in a suspension.

Attendance:

Attendance is important for success in any chemistry class. Students who miss class often miss information and work that can not be made up. As a result students who miss class generally fall behind and their grade suffer.