

Chemistry Syllabus (Draft)

Instructor: Mr. Tomjack

Contact Information

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General Course Description

Chemistry is a year long course and, starting with the Class of 2013, is a required class for WHS graduation. This course is a study of the basic laws of chemistry, covering the common elements of the periodic system, their structure, interactions, and energy relationships. The course is accompanied by work in the mathematical solution of chemical problems, and laboratory use of experimental data. This course is particularly recommended for students planning on attending college in a scientific or health-related field of study.

The design of this course is intended to help students prepare for lab-science courses that may be encountered in college. Students should expect a demanding daily homework load as well as projects, quizzes, tests, and laboratory write-ups. A high level of understanding in problem solving and the scientific methods is necessary for success in this course.

Prerequisites: Must have completed or be enrolled in Algebra 2 to take Chemistry.

Daily Class Materials Needed

*Student Planner	*Modern Chemistry textbook	*3 Ring Binder
* Notebook	*Pen/Pencil	*Calculator

Daily Requirements:

All students will be required to keep their assignments in a 3-Ring Binder. This binder will hold the student's Vocabulary Word Lists, Notes, Classroom Assignments and Activities, Labs, Quizzes, and Reviews. This notebook will be graded at the end of every chapter.

Grading Policy

Warm-up exercises:	5 % of final grade
Homework:	30% of final grade
Lab write-ups/Quizzes	30% of final grade
Unit/Chapter Exams	30% of final grade

Grading Scale

A+ 98-100	B+ 92-90	C+ 82-84	D+ 75-76
A 95-97	B 88-89	C 79-81	D 73-74
A- 93-94	B- 85-87	C- 77-78	D- 70-72

Academic Assistance

It is my goal that every student be successful in this class and I am willing to offer as much academic assistance as necessary to achieve that goal. If students are in need of academic assistance, I will do my best to be available during the following times:

1. Before School (7:30 – 8:15 PM)
2. Home Room
3. Plan period (8TH Period)
4. After school

Please notify me ahead of time if you plan to come in for assistance during any of these times to ensure that I will be available to help you.

COURSE OBJECTIVES AND SCHEDULE

Semester 1

Introduction

- Class Expectations and Guidelines
- Class Syllabus and Guidelines
- Lab Safety
- Lab Procedures

Unit 1 – Introduction to Chemistry and Matter

- Matter and Change
- Measurement and Calculations

Unit 2 – Organization of Matter

- Atoms: The Building Blocks of Matter
- Arrangement of Electrons in Atoms
- The Periodic Law
- Chemical Bonding

Semester 2

Unit 3 – Language of Chemistry

- Chemical Formulas and Chemical Compounds
- Chemical Equations and Reactions
- Stoichiometry

Unit 4 – Phases of Matter

- Physical Characteristics of Gases
- Molecular Characteristics of Gases
- Liquids and Solids

Unit 5 – Solutions and Their Behavior

- Solutions
- Ions in Aqueous Solutions and Colligative Properties
- Acids and Bases
- Acid-Base Titration and pH