



Honors Chemistry Grand Haven High School



Course Number: D55

Grade Level: 11-12

Credits : 1

Prerequisite Courses : Algebra II with a final grade of B or better

Course Description

As an introductory course in chemistry, the student should gain an understanding of the structure, properties, and reactions of matter. As an honors course, the pace and depth of the material is slightly greater than the regular chemistry course, and the students should be able to learn quickly to grasp concepts. Students will also be expected to design, share, discuss, and critique lab investigations. Honors Chemistry is also a prerequisite for further study in AP Chemistry.

Course Objectives

Honors Chemistry is for students who are curious and like to conduct experiments. Honors Chemistry gives each student ownership to explore and gain knowledge of the nature and composition of matter and the laws concerning the reactions of substances. This course prepares students for success in the more rigorous college level chemistry courses required in science, technology, engineering, math (STEM), or pre-medicine majors. The course is designed to meet the State of Michigan curriculum content expectations for Chemistry. This course is more in-depth with greater expectations of students to do work outside of class than regular chemistry.

Student Expectations

The student in Honors Chemistry is expected to do many things to be successful in class. This includes but is not limited to the following:

- 1) Bringing all necessary materials to class every day (charged chromebook, calculator, class notebook, folder, writing utensils).
- 2) Sharing, questioning and discussing chemistry concepts in class.
- 3) Preparing for class by reading and studying independently.
- 4) Working on practice problems and examples outside of class every day.

Building Behavioral Expectations

TEAM GH ... One Team, One Family, One Grand Haven. Be Kind. Always.

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

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Communication

Students and parents have access to grade information on the internet through Parent VUE. Students and parents can monitor Parent VUE to know how the student is doing in class. Email is the most effective way to communicate with the teacher.

Grading Policy

Assessments (Tests, Quizzes, Labs) = 70%
Daily Work = 30%

Scope and Sequence

First Semester:

Matter, Atoms, Molecules and Ions
Naming and Writing Compounds
Periodic Table and Electronic Structure
Energy and Light
Covalent Bonding and Molecular Geometry
Mass Relations, Measurement and Stoichiometry
Chemical Reactions

Second Semester:

Thermochemistry
Gases, Liquids and Solids
Solutions and Solubility
Acids and Bases
Titration, Equilibrium and Reaction Rates
Electrochemistry and Nuclear Energy

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