**Honors Chemistry**

Instructor: Mr. Quinn

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Office Hours: Mon., Wed., Thur., 2:30 – 3:10 pm

**Course Description:**

The development of the scientific method is presented along with the basic relationships of chemistry. Qualitative and quantitative analytical thinking will be developed based on laboratory experiences. This course is intended for students who plan a career in chemistry or related fields, or who desire an academically challenging course.

**Course Materials:**

Textbook: Chemistry the Central Science

3-Ring Binder with dividers and paper

Scientific Calculator

Black/blue pen and pencil

Chromebook

**Class Communication:**

Google classroom will be used to make announcements, assign specific homework assignments and provide supplementary materials. The class code is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Grading Policy:** Quarterlygrading is done using a point system with a general distribution of points as follows:

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| --- | --- |
| **Tests** | **100 pts** |
| **Quizzes** | **30-60 pts** |
| **Labs**  | **25- 60 pts** |
| **Homework** | **5 pts** |
| **In-class activities** | **2-10 pts** |

A cumulative final exam will be administered with weighting based on school policies.

**Late assignments:** Assignments (i.e. lab reports) that are handed in after the due date will receive partial credit. Homework assignments are not accepted for credit after their due date. Missed work due to an excused absence should be made up as soon as possible.

**Laboratory safety:** This course includes laboratory application of chemistry concepts, allowing students to have true mastery of the material. Students are expected to come prepared for lab prior to the lab day by completing any pre-lab exercises. Students must dress appropriately for lab and follow all lab safety instructions. Violation of any of these conditions will result in a zero for the lab.

**Academic Integrity**

All students are expected to complete his/her own work. Cheating is not tolerated. If cheating is suspected those students involved will receive zeros for the assignment.

**Honors Chemistry Course Syllabus**

Textbook: Chemistry the Central Science

Brown, LeMay, Bursten

Prentice Hall, 2006

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| Topics | Topic |
| 1 | Matter, Change, and Energy |
| 2 | Scientific Measurement/Problem Solving |
| 3 | Atomic Structure |
| 4 | Chemical Names and Formulas |
| 5 | Chemical Quantities |
| 6 | Chemical Reactions |
| 7 | Stoichiometry |
| 8 | States of Matter |
| 9 | Gasses |
| 10 | Electrons in Atoms |
| 11 | Chemical Periodicity |
| 12 | Ionic Bonds |
| 13 | Covalent Bonds |
| 14 | Water |
| 15 | Properties of Solutions |
| 16 | Reaction Rates and Equilibrium |
| 17 | Acids and Bases |
| 18 | Oxidation-Reduction Reactions |
| 19 | Nuclear Chemistry |
| 20 | Introduction to Organic Chemistry |