

Regular Chemistry Syllabus Mr. Hennessy 2017-18

Course Description

CHEMISTRY SCI251 (Sem 1), SCI252 (Sem 2)

Year Course 2 Credits

Open to: sophomores, juniors, and seniors NCAA Approved

Prerequisite: Algebra I

This course is designed for those students who want a physical science class that is both practical and theoretical. The course of study is designed to cover the basic concepts of chemistry on a descriptive and quantitative level. Laboratory activities will be used to illustrate the important ideas. This course is designed to equip students with the background to understand how chemistry fits into everyday living. Alignment to the Next Generation Science Standards: Understands and applies knowledge of: the structure of atoms, the structure and properties of matter, chemical reactions, conservation of energy, and interactions of energy and matter.

Standards

Understands and apply knowledge of the structure of atoms. Understand and apply knowledge of the structure and properties of matter. Understand and apply knowledge of chemical reactions. Understand and apply knowledge of conservation of energy and increase in disorder. Understand and apply knowledge of interactions of energy and matter.

Assessment

The summative assessment at the end of each unit, individually completed projects or labs and the final assessment are the only major points that count for the final grade. Some homework will be given throughout the week that will be worth less towards the final grade.

Grading

Grading will be out of total points. Point totals for homework, labs, and quizzes may vary. Point totals for tests will be always worth 100 points.

Content

Study of matter and its changes, Scientific measurement, Atomic structure, Periodic table, Bonding, Names and Formulas, Stoichiometry, Chemical reactions, Gases, Water and aqueous solutions, Thermochemistry, Reaction rates, Equilibrium, Acid and bases, Oxidation and reduction reactions, Electrochemistry, Organic and Nuclear chemistry.

Instructional Strategies

The class requires you to understand the concepts that are presented via lecture, demonstrations, labs and projects. The textbook is a resource that should be utilized. The summative assessments will require an in-depth understanding in order to analyze, synthesize and manipulate variables from the basic concepts. Although many activities are team based the only scores that affect the grade are individual test scores.

Resources

The main resource is the textbook, Chemistry by Wilbraham, Staley, Matta & Waterman printed by Pearson Prentice Hall, copyright 2008. Other resources include the lecture notes, demonstrations, labs, projects and review games. If additional help is needed please consider coming into the classroom before school any day from 7:00 until 7:30, unless a teacher meeting is scheduled.

Expectations

BE HERE BE PREPARED BE RESPECTFUL

1. Be respectful of each other's viewpoints, ideas, time, and effort.
 2. Students are required to have a personal calculator for the duration of the course.
 3. Cell phones, ipods, ect....put them away. Any cell phone seen out will be taken and will be available to pick up at the end of the class. You cannot possibly be able to text and listen to me at the same time!!
 4. Class attendance and participation are crucial for this course, as much of our learning will be led by the diverse group of students enrolled in this course. Your absence robs us of all your knowledge and unique viewpoints.
 5. Be on time! We only have so much time throughout the day and we will make the most of it.
 6. If you miss a day of class, it is **YOUR** responsibility to find out what you missed.
- ***All policies in the student handbook will be enforced***

Grading Plan

Grading scale found on page 17 in planner.

Test and individual projects are the only major points that affect the grade. Points are allowed for homework, group work or out of class material, however, much less significant. There will be test retake opportunities on every test, however, the first test will be factored into the test score.

Late Work Policy

Missed quizzes and homework **MUST** be made up by the unit exam. Points will be accepted for full credit up until that point. If a homework assignment or quiz is turned in after the end of the unit, ZERO points will be awarded for those assignments. If an exam is missed, that exam must be made up by the end of the next unit as well, otherwise ZERO points will be awarded.

HELP!

Students are encouraged to come in before school (7-730am), during 5th hour study, or during 7th hour for help. Students should notify instructor ahead of time to arrange a time to get help. After school help will not be available.

Communication Plan

The main venue for tracking progress will be with the power school. Students and parents may contact me via the email; mhennessy@dbqschools.org or through the school phone system at 552-5327.