

CHEMISTRY I Syllabus

INSTRUCTOR: Mahua Chakraborty

2014-2015

Goals: The Chemistry I course is designed to give a general instruction to chemical concepts.

To provide sufficient information for a student to continue chemistry instruction at a college level.

To help clear many chemical concepts through hands on experiences.

Text: CHEMISTRY by Wilbraham,Staley,Matta,Waterman. Please bring the textbooks when asked only to the classroom.

Content: Main Topics that will be covered include:

1st nine weeks

- Matter and Change
- Scientific measurement
- Atomic Structure
- Electrons in Atom
- The Periodic Table

2nd nine weeks

- Ionic and metallic Bonding
- Covalent Bonding
- Chemical names and Formulas
- Chemical Quantities.
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3rd nine weeks

- Chemical Reactions.
- Stoichiometry
- States Of matter
- Behavior of gases

4th nine weeks

- Water and aqueous systems
- Solutions
- Thermochemistry
- Reaction Rates and Equilibrium.

Your success in this course will directly reflect on the amount of time and effort you put into it. Here are some suggestions that may help you:

- Come to class daily
- Participate actively and ask questions as soon as you need help
- Keep notes about demonstrations and examples presented in the class
- Keep up with your work.
- Be open to variety of learning styles and activities.

Materials: Please bring the following to the class daily:

- Blue/Black pen, #2 pencil, and a ruler
- Scientific calculator
- Flash drive
- A notebook/ or a binder for taking note
- Textbook as and when asked.
- Chemistry lab notebook when indicated.

Class Prerequisites: Since Chemistry I involves lot of mathematics it is important that you are currently enrolled in or have already passed Algebra II. Please talk to me personally if you have not met this requirement.

Tests:

You will have tests /quizzes on Mon/Thursdays.

Class Behavior: KEY word is RESPECT

- Students are expected to speak with respect to and with the teacher and their fellow students.
- No eating, drinking, or chewing gum in the class. Before entering the class, make sure you trash your drink or spit out your gum. Only a bottle of water is allowed in the class as well as the lab.

- Students are expected NOT to bring any games, throw things, tamper with the equipments, etc. in the classroom or the lab.
- Students are expected to sit in their assigned seats and PAY FULL ATTENTION in the class.
- The students are expected to bring the materials needed in the class DAILY.

Homework: Homework will be assigned daily since science requires repetition in order to master concepts and develop necessary problem solving skills.

- It should not take you more than 30-40 minutes.
- HW will be checked before class starts.
- For problems make sure you show the calculations.
- **HW should not be done in red ink.**
- Late HW is not accepted.

Grading: Students will be graded on quizzes, exams, homework, and lab work. Please go online to check the grading policy.

Extra Assistance: Students can come to me during the help labs on designated days.

Absences: If you are absent, be sure to have a classmate pick up all papers and assignments for you. If you are sick for more than one day, have a classmate or a parent bring assignments to you. Labs will be preannounced. Lab absences will result in a zero grade unless student is seriously sick. This excuse must be followed with an excuse note from the doctor's office. Each day in chemistry is dependent on understanding the previous day's work. Daily attendance is essential. Pre announced tests and quizzes must be made up on the day that the student returns.