This course is a one semester survey of modern concepts regarding the structure and properties of the material world for students who do not need a rigorous foundation in chemistry. As chemical concepts are introduced students will be able to make connections between these concepts and the real world. This course meets a 5 hour lab-science requirement for non-science majors.

Jan 30  Introduction to matter and measurements
Feb 6   Conversions scientific notation sig figs
Feb 13  Atoms and molecules
Feb 20  Electronic structure and periodic table
Feb 27  Chemical bonding ionic compds
Mar 6   Chemical bonding covalent compds
Mar 13  Chemical reactions and types of chemical rxns
Mar 20  Balancing equations
Mar 27  Gas laws
April 3  Solutions
April 10 Acids bases and salts
Spring break from Apr 17 to April 26
May 1   Intro to organic chemistry
May 8   Intro to biochemistry
May 15  Energy and the body
Grading:

1. There will be 14 quizzes given for the lecture portion of the class. Each quiz is 30 min long. I will drop the 2 lowest grades. This represents 60% of the grade.
2. There will be 1 in-depth report on selected topics. This represents 20% of the lecture grade.
3. In lab there will be 8 quizzes. I will drop the lowest grade. This represents 20% of the grade.

There is no text book for the lecture or lab. I will give you hand-outs for both sections.

Missed quizzes: THERE ARE NO MAKE-UP QUIZZES unless you have a valid doctor’s note. If you miss a quiz it will be averaged in as a zero.

Attendance: If you miss 3 labs you will be dropped from the course. If you miss 2 classes you will be dropped from the course.