

CHEMISTRY 1210 FALL 2009

TEXT: Intro to General, Organic, & Biochemistry, Bettelheim et al
INSTRUCTOR: Barbara Albers Jackson, Ph.D.
Room 323, Foster Hall
Phone: 372-3427 Mobile: 260-3427
E-Mail: BJackson@ntech.edu

This general chemistry course will focus on chemical concepts and applications for the students entering applied medical fields. The first half of the course will deal with chapters 1 through 9 in the text. The second half of the course will cover general principles of organic chemistry which apply to biochemistry and general concepts of biochemistry and some selected biochemical pathways. Previous editions of the text are available in the library. You can check them out for 2 hours at a time,

I will lecture from my notes which on: <http://iweb.ntech.edu/bjackson/index.htm>. Go to Chemistry 1210 for my notes and sample quizzes. There will be sample quizzes both at the library and in the free tutoring in Room 133 Foster Hall. In the past chemistry majors tutored free of charge. If this is again available, I will let you know.

I show you all the math steps and I use a simple calculator - Texas Instruments TI 30XA. It's the cheapest one which has log functions. I don't use a complex calculator and would not be able to help you use yours.

I do not take roll, but expect attendance. Occasionally I will take roll and add a few points to the upcoming quiz. The major portion of your grade will be weekly quizzes. I do not do makeup quizzes, but will allow you to drop your lowest quiz. If you are sick and miss a class, let me know. That will count as your drop, but if you are sick again and miss another quiz, I can make an adjustment and not average a zero grade. If you decide to use your drop quiz and then get sick, sorry.

The last day to drop a course with a "W" is Friday Nov 6, 2009.

<u>Grading Scale</u>		<u>Grading System</u>	
92.0 and above	A	Weekly quizzes	60%
91.9-82.0	B	Midterm (10/13)	20%
81.9-72.0	C		
71.9-62.0	D		
61.9 and under	F	Final Exam (12/14 10:30 AM)	20%

Chemistry 1210

The following topics are covered in Chemistry 1210 at Tennessee Technological University.

States of Matter

Chemical and Physical Properties of Matter

Measurements

Dimensional Analysis & Conversion Problems

Fahrenheit, Celsius, and Kelvin conversions

Density

Calories

Atomic Structure

Isotopes

Half-life

Nuclear Reactions - Decay, Fission, Fusion

Uses of Radioisotopes

Chemical Bonding - Ionic, Covalent, Hydrogen

Oxidation Numbers

Balancing Equations

Stoichiometry

Gas Laws

Solutions - Percent, Molarity, Normality

Neutralization Reactions

Dilutions

Acids, Bases, Salts

pH, pOH

Conversion of Hydrogen Ion Concentration to pH

Organic Functional Groups

Overview Biochemistry