

## Chem 1211K - Principles of Chemistry I

Instructor: Dr. Boatright  
email: [dboatrig@westga.edu](mailto:dboatrig@westga.edu)

Office: 2118 Phone: 678-839-6028  
Office Hours: MW 10-12, 1-2; TR 11-12, 1-2

**You must email me from your myUWG account or I will not respond.**

Text: Chemistry–The Molecular Nature of Matter and Change, 4<sup>th</sup> edition, Silberberg

Workshop Chemistry (Chem 1003) required

Attendance is mandatory. A student will be awarded a failing grade in the course if more than 30% of laboratory activities are missed. No make-up exams will be given.

Grading:	Workshop	15%	
	Activities	20%	
	Exams	65%	4 exams + final (13% each)

The final will be the American Chemical Society standardized test which will cover the entire semester. A standard 10 point scale will be used. If you miss an exam for any reason your final exam score will replace that exam. No extra time will be given for exams, so please arrive on time. **No extra credit will be offered. Cheating will not be tolerated. Any infraction will be taken before the disciplinary committee and played out to the fullest extent.**

Syllabus Fall 2007:

<b><u>Chapter:</u></b>	<b><u>Subject:</u></b>
1	Keys to the Study of Chemistry
2	The Components of Matter
3	Stoichiometry of Formulas and Equations
<b>Exam I            Tuesday, September 11</b>	
3	Stoichiometry of Formulas and Equations (cont.)
4	The Major Classes of Chemical Reactions
5	Gases and the Kinetic-Molecular Theory
<b>Exam II            Thursday, October 4</b>	
6	Thermochemistry: Energy Flow and Chemical Change
7	Quantum Theory and Atomic Structure
<b>Exam III          Tuesday, November 6</b>	
8	Electron Configuration and Chemical Periodicity
9	Models of Chemical Bonding
10	The Shapes of Molecules
<b>Exam IV          Tuesday, December 4 (Last day of class)</b>	
<b>Final Exam      Tuesday, December 11, 2 pm - 4 pm</b>	

**Learning Outcomes:** Students are expected to acquire a basic understanding of the following topics: composition of matter, reactions and reaction stoichiometry, properties of gases, thermochemistry, atomic structure, and chemical bonding. They are also expected to acquire an awareness of the role of Chemistry in everyday life. Students will also learn to apply the scientific method in laboratory activities, collect and analyze scientific data and formulate appropriate conclusions from data analyses and communicate their findings.