

## Chemistry 121I – Honors General Chemistry I – Fall 2013

Instructor: Dr. Thomas G. Richmond, TBBC/HEB 2404, 801-581-7487, T.Richmond@utah.edu  
Office Hours: Monday & Wednesday, 11:30 AM – 12:45 PM

Secretary: Whitney Cox, HEB 2108, 801-581-5784, whitney.cox@utah.edu

Lecture: Monday - Friday, 8:35 – 9:25 AM, WEB 1230

EXAMS: **The dates of the six(6) midterm exams are noted on the course schedule.**

FINAL: **Tuesday, December 17, 8:00 AM – 10:00 AM**

**No Early, Late, or Make-up Exams or “Extra Credit.”**

Text: Zumdahl<sup>2</sup>, *Chemistry: An Atoms First Approach* & OWL (Web Based Homework)  
Recommended: ACS Study Guide for General Chemistry Final Exam.  
Be sure to activate the Canvas Page for this course and read all announcements published on that page.

This is an Honors version of the first semester class in General Chemistry for Science Majors. The laboratory course CHEM 1240 is a co-requisite. College Algebra (Math 1050 or equivalent) is a recommended prerequisite.

Following the review chapter R, we will cover the Chapters 1-10 of the text with Chapter 19 (Nuclear Chemistry) inserted following the first numbered chapter. I will assume that you *already know* the names and symbols of the first 36 elements (but don't stop there), the names, formulas and charges for common cations & anions (Tables 3.3 & 3.4), common polyatomic ions (Table 3.5) and can identify the diatomic elements (N<sub>2</sub>, O<sub>2</sub>, F<sub>2</sub>, Cl<sub>2</sub>, Br<sub>2</sub>, I<sub>2</sub>). If this is not the case, please memorize this information now. You should learn the meaning and application of the SI Prefixes (M→η) in Table R.2. You will need a scientific calculator capable of log/exponential functions and scientific notation for this course. You may NOT use a more sophisticated device capable of storing alphanumeric data or special equation solving capability. This same rules are enforced in other general chemistry courses. Buy (~\$10) or otherwise obtain an appropriate calculator now and learn how to use it! It is wise to read the assigned chapter prior to attending class. Some class time will be devoted to problem solving in both lecture and discussion sections and we will have occasional guests who will present special topics relevant to the chemical science.

The Final Grade in this course will be based on total points earned:

Three 1210 Computer Based Exams	50 Points Each (1/2 the raw score)	Total Possible = 150
Three 1211 In-Class Exams	50 Points Each	Total Possible = 150
OWL Online Homework Score	Best 10 Assignments normalized to 10 pts	Total Possible = 100
In-Class Score	120 Points (2 Points/class for 60 classes)	Total Possible = 120
Final Exam	ACS Final (Highest of %tile or %correct)	Total Possible = 100
		Grand Total = 620
The lowest of the six 50 point exams will be replaced by the average of the other five. This scheme will be used to replace a missed exam.		

The final grade will be based on total percentage of points earned and informed by my professional judgment. This is the first time an Honors General Chemistry I course has been offered by the Chemistry Department in more than a quarter of a century. Last spring, my Honors General Chemistry II students scored an average of 88%tile on the Nationally Normed ACS Final Exam.

Any requests for re-grades must be turned into Professor Richmond the same week the exam is returned;  
TAs are great sources of advice but cannot award additional points on exams.

Please consult with the Center for Disability Services, Room 162, Olpin Union (801-581-5020) to arrange for any special accommodations required to meet the expectations of this course.

All students will be subject to the University of Utah Student Code. (<http://www.sa.utah.edu/code/>)

*You have all chosen to be here for various academic and professional reasons.  
My promise to you is that this will be a stimulating and challenging course and your hard work will pay off in enhanced problem solving ability and increased understanding of the world around you from a chemical perspective.  
I hope you will enjoy your study of chemistry – the central science.*