

## Chemistry 111 Spring 2012

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### Schedule

Monday	Tuesday	Wednesday	Thursday	Friday
10 am Chem 111		10 am Chem 111		10 am Chem 111
11 am Chem 111		11 am Chem 111	Office Hours By Appointment	11 am Chem 111
12-3 Office Hours	12-3 Office Hours 3:30-6:30 Chem Lab	12:30-3:30 Chem Lab		Office Hours By Appointment

**Text: CHEMISTRY: Atoms First by Burdge and Overby**

#### Catalog Description: Chem 111 Principles of Chemistry (3)

An introductory course in chemistry emphasizing theoretical aspects and designed primarily for students who intend to take one or more additional courses in chemistry. Lectures, three hours per week.

#### Co-requisite: Chem 111 Laboratory.

Unless you have already taken it and are retaking this course to improve your grade. If you are enrolled in Chem 111L and have already passed it, go to the chem office and be removed from the lab. **DO NOT ATTEMPT TO DO THIS ON COUGAR TRAIL OR YOU WILL BE DROPPED FROM THE LECTURE AS WELL.** The two courses (CHEM 111 & 111L) are graded independently of each other. Labs will begin the week of January 16<sup>th</sup>.

#### Course Objectives:

1. To explore the basic elements of molecules
2. To understand what is involved in a chemical reaction and stoichiometry
3. To master the naming chemical compounds both ionic and molecular
4. To explore basic thermodynamic concepts
5. To understand the periodic trends of atoms
6. To explore ground state electron configuration, molecular shape and Lewis structures
7. To obtain an understanding of intermolecular forces and colligative properties

**Drop/Add:** In order to change sections or change courses you must do so no later **than 5 p.m Friday January 13, 2012.** If you are repeating the lecture or lab and do not need to repeat the corequisite course you must remedy this with the department chair before the close of Drop/Add.

**Withdrawal: The last day to drop with a grade of "W" is Monday March 19<sup>th</sup> at 5 pm.**

**Calculators:** You will need a calculator that performs exponential and logarithmic functions. You will need to bring it to all class meetings. You do not need one, but if you have a programmable calculator you will need to come to exams early to show me all programs that are currently on your calculator.

**Responsibilities:** You are responsible for all material covered or assigned in class or assigned via the web. You should check the website at least weekly for any updates. There will be a schedule with all notes, homework assignments and quizzes for each class period. It is absolutely vital that you keep current in your studies. My expectation is that for every hour spent in lecture you will spend a minimum of 3 hours of study. The instructor is here to explain the material and help you to the best of her time and ability. However, the burden of learning is upon you, the student, which includes making use of tutors and office hours. Homework will be assigned but not be graded. The problems are representative of what you need to know for the quizzes and exams. **The key to success in this class is working through chemistry problems again and again.**

