

## Principles of Chemistry (304-12100-0X) Class Syllabus FALL SEMESTER 2009

MWF 11:00–11:50 AM in CNS 112 (lectures) and  
 recitations: Th 4:00–5:15 PM in CNS 115, Th 2:35–3:50 PM in CNS 115 (register for one of those!)

Introduction to general theories and principles of chemistry will include, among other topics, overview of the periodic table and properties of the elements, bonding and the quantitative relationships between the elements, chemical reactions and molecular geometry, introduction to spectroscopy. Three hours of lecture and one recitation per week. (4 credits.)

Pre-requisites: High school algebra and high school chemistry with minimum grade of C or 304-10600.

**Instructor:** Dr. Anna Larsen, CNS 359, Phone: 274-3473, email: alarsen@ithaca.edu

**Texts and Supplies Available at the IC Bookstore:**

- **Textbook:** Ebbing and Gammon *General Chemistry*, 9<sup>th</sup> ed.  
*Custom-bound edition* made for Ithaca College is available at IC bookstore with ISBN-9780547214771. (or ISBN-10: 0-618-85748-6 – complete textbook) Main differences of custom-bound compared to standard editions: soft cover, only 11 first chapters included with detailed solutions to many problems (we cover chapters 1-11 in this class). Using 7<sup>th</sup> or 8<sup>th</sup> edition is fine, as long as you have access to the problems and questions from the last edition (those may vary between editions).
- **Non-programmable scientific calculator.**
- **Three-ring binder** (portfolio) – for keeping all the materials pertaining to this class.

**Class Website:** <http://www.ithaca.edu/faculty/alarsen/index/PrincChem/PrincChem.html>

**VISIT THIS WEBSITE REGULARLY – ALL THE ANNOUNCEMENT AND MATERIALS WILL BE POSTED THERE!!** Also: A LOT of class information will be distributed by EMAIL (to your ithaca.edu email account). It is expected that you check your email messages at least daily.

**Office Hours:** Mo, Wed, 12 to 1 pm + By Appointment (CNS 359)

**Teaching assistants:** To Be Announced

**Grading:** Midterm exams (50%), final exam (20%), quizzes (25%), and homework/class participation/portfolio checks (5%).

One lowest midterm score and one lowest quiz score will be dropped if all the quizzes and midterms were taken. Class participation grade will be contributed by various activities, such as in-class team work, intermittent portfolio/homework check-ups, etc.

**Final Exam DATE** (scheduled by registrar): **Tuesday Dec. 15 4:30 pm - 7 pm, CNS 112**

**There will be no make-up exams or quizzes.** It is the student's responsibility to notify the instructor if an exam or quiz will be missed due to a verifiable emergency or religious belief in accordance with the Attendance Policy outlined in the Undergraduate Catalog of the current Academic year. In order to satisfy the requirements for the course the student must take the final exam and miss no more than one in-class exam and two in-class quizzes. Students with disabilities should immediately contact the Office of Academic Support Services for Students with Disabilities at <http://www.ithaca.edu/acssd>. *Cheating* on an examination will result in a grade of *F* (failure) for the course. All cases of cheating or plagiarism will be prosecuted.

**Lectures** in this course are designed to complement and supplement the textbook. You are responsible for the material covered in the text whether it is presented in lecture or not. If you arrive late or must leave

early, you should enter or leave as quietly as possible and sit in the rear of the classroom. Lecture disturbances, including talking and eating, will not be tolerated. Disruptions from cell phones, beepers, laptops, etc will result in removal from lecture. Furthermore, *“disruptive and/or invasive actions using computer systems and networks are strictly prohibited and may result in access to the system resources suspended or revoked by ITS”*, - details at [http://www.ithaca.edu/computing/policies/all\\_campus\\_use.htm](http://www.ithaca.edu/computing/policies/all_campus_use.htm)

**Class participation** and attendance is essential in order to get the most out of this course. You should strive to keep up with the material. If you fall behind, it becomes increasingly difficult to catch up with the class. This means that you should read the chapter in the text as it is covered in lecture (and at least look it over *before* the lecture), review the notes from previous lectures, and work the suggested problems as they are covered in class.

**Recitation period** each Thursday (called “lab” when you registered for the class!) is mandatory and devoted to problem-solving skills development. Brief **quizzes** (~15 minutes) will be given at the recitations. **Midterm exams** will be also held on Thursdays (unless otherwise stated). Quiz material will focus on the previous weeks lecture topics. Teaching Assistants will be helping during recitations throughout the semester.

**Midterm Exams** will have some multiple choices, short answer, long answer, and possibly essay questions. There will be four exams which will account for 50% of your final grade. The lowest exam grade will be dropped if all midterms were taken. Mainly the exams will focus on the most recent lecture material, but most of the topics will build on previous concepts. **The final exam** will be comprehensive over the entire semester accounting for 20% of your final grade. The best way to prepare for the exams is to keep up with the course material. Participate during lecture discussions, prepare for the weekly quizzes, do the recommended problems, and ask questions. I am available during scheduled office hrs and at other times (email ahead to make sure I am available if it is not during office hrs).

*Study sessions are optional* and will be scheduled and run by the Teaching Assistants to accommodate the majority of students in off class hours in ADDITION to the recitations and lectures. (Last year TA study sessions were held on Sunday nights). The study sessions are intended to help clarify ambiguous topics from the class lectures or from the reading. Most of your preparation should be completed before the study session. The attendance of these study session is not mandatory, they are offered as additional help to students who need it.

**Suggested problems from the textbook** (“homework”) or class handouts are to give you practice working on problems that are relevant to understanding the topics discussed during the lecture and topics presented in the text but not covered in lecture. Your work on those will be checked as part of portfolio check (see below). I strongly advise that you begin the problem sets immediately after you receive them. There will also be a number of **practice problems** with each chapter - those will give you an idea of what the tests questions might look like.

**Class portfolios** will be checked and graded several times throughout the semester. Organize your class portfolio in a three-ring binder that will contain ALL your class materials in *clearly marked sections*: Lecture Notes, Worksheets, Class Handouts, Home Work, Quizzes, Exams, Corrections, etc. Bring your class portfolio to each midterm exam. It will be checked by the instructor for organization and completeness.

*If at any time during the semester you feel that you are falling behind or have any questions or concerns please do not hesitate to contact me for help. I want everyone to succeed.*