

CHEMISTRY 100 (Spring 2008)
Chemistry in Everyday Life

Time & Place: T, Th 9:30 A.M. - 10:45 P.M., Faraday Hall (FR) 143.
Textbook: Baird, "Chemistry in Your life", 2nd Edition, WH Freeman, © 2006.
Technology: eInstruction Clickers (Personal Response Systems)
Instructor: Dr. Victor Ryzhov, Office: Faraday West 425, Phone: 753-6955,
e-mail: ryzhov@niu.edu
Office hours: T, Th 11:00 A.M. - 12:00 P.M., or by appointment.
Course website: <http://webcourses.niu.edu> (Blackboard)

Attendance and lecture quizzes:

Lecture attendance is not required but highly encouraged. There will be some in-class quizzes. Together with attendance they will be "participation points" with a 100 pts maximum over the course of the semester. The quizzes will be conducted using the Clicker technology.

Schedule of Exams:

Exam 1 – 02/07 (Thur)	
Exam 2 – 03/04 (Tue)	during normal
Exam 3 – 04/03 (Thur)	lecture periods
Exam 4 – 05/01 (Thur)	

Final Exam (comprehensive) – 05/08 (Thur) 10-11.50 a.m. (note time change)

Grades:

There will be four hourly exams and a final exam worth 100 points each. No make up exams will be given. All exams will be multiple choice and graded by Scantron. The lowest exam score will be substituted for the participation points making the maximum 500 points (four best exam scores plus participation points). If you like your grade after 4 exams, you do not have to take the final. The grading will be as follows:

Out of 500 pts: > 90% = A; 81-90% = B; 71-80% = C; 61-70% = D; < 60% = F

This scale may be revised downward (not upward), but this is not guaranteed. **Under no circumstances will a student pass the course with an average of less than 50%.**

Homeworks:

Doing the homework is crucial to understanding the material, and you are strongly encouraged to complete all the assignments. Also, some problems on the exams will be very similar to those in the homework assignments. Homework problems will not be collected or graded.

Office Hours:

Tues. and Thurs. 11:00 A.M. - 12:00 P.M. During these times you can find me in my office (FW425). You are welcome to come by for help during office hours without an appointment. If you are unable to come during these times, you can make an appointment with me for another time that is convenient for both of us. You are also encouraged to contact me by e-mail.

Other resources:

The course website (<http://webcourses.niu.edu>) will feature important announcements, suggested homework problems, practice exams, current exams and keys, and lecture powerpoint slides for downloading. Check the site periodically, especially if you miss a class period or two. You will need your student Z-ID to log in.

For further help, the Chemistry help room (Faraday Hall 247) is open from 8:30-3:30 p.m. (with a lunch break), Monday through Thursday. It is strongly recommended that you visit the help room at times other than right before an exam. Names of personal tutors are available from Linda Davis in FR 319 (the department office). Students in CHEM 111 can also ask their TAs for assistance in understanding the lecture material.

Your success as a student is of utmost importance to me. If you have a disability or any other special circumstance that may have some impact on your work in this class, and for which you may require exam and/or other types of accommodations, please contact me as soon as possible so that appropriate accommodations can be made. Please

feel free to contact me by phone or to schedule an appointment.

The NIU Center for Access-Ability Resources (CAAR, 753-1303), located on the fourth floor of the University Health Service, is the designated office on campus to provide services and accommodations to all students with diagnosed disabilities. You will need to provide documentation of your disability to this office.

General Education Course Objectives

- Improve ability to think critically and logically;
- Improve ability to reason quantitatively and to perform basic chemical computations;
- Learn how to use the scientific method and theories to understand chemical phenomena;
- Develop an appreciation for the importance of the role of chemistry in everyday life;
- Develop an understanding of the historical development of the field of chemistry.

Content Objectives of This Course

- Distinguish between chemical, physical, and nuclear processes and properties of matter;
- Understand the acid/base properties of chemical compounds and the role of acids/bases in industrial, environmental, and health/nutritional applications;
- Identify the advantages and disadvantages of alternative energy sources vs. fossil fuels;
- Understand the role of chemistry in health care, pharmaceuticals, and nutrition;
- Become knowledgeable about the application of modern materials.