

MWF, 10:30-11:20, BNR 102

Instructor: Steve Scheiner, Chemistry Building 273
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Office Hours: M 1:30-2:30, W 9:30 - 10:20; other times by appointment.

Text: "*Chemistry: The Central Science*", Brown, Lemay, et al.

Prerequisites: High school algebra; elementary chemistry experience highly recommended.

Content: The course will cover topics presented in Chapters 1-13 of the text.

Grading: A total of 730 points are possible in Chem 1210 and are distributed as follows:

3 One-hour Exams	300 (41.1%)
13 Online Quizzes	130 (17.8%)
4 Online Pretests	100 (13.7%)
Comprehensive Final Exam	200 (27.4%)

Total	730

In terms of final assignment of grades, you are guaranteed at least the following grades if your final class percentage lies above the indicated cutoffs:

A/A-	90%
B-/B/B+	80%
C-/C/C+	70%
D-/D/D+	60%

Based on the overall class average, the percentage cuts for the various grades may shift lower than the above cuts. In other words, an "A/A-" range grade may be assigned for lower percentages (e.g. 87-100%) than those indicated above. However, the percentages will not shift higher than the above, so you are assured the indicated or a higher grade, depending on the class average at the conclusion of the course.

In-Class Exams:

There will be four 50-min exams. Each student may drop the lowest of their four grades. Students who take only 3 exams will have all three grades count. Students missing more than 1 exam will receive a grade of 0 on any missed in excess of 1. Students will be permitted to bring a calculator to the exam, and a prepared "cheat sheet" with any equations, worked problems, or anything else deemed useful.

There will be no make-up exams.

The final exam will be cumulative, administered on **May 3 at 11:30 - 1:20.**

Quizzes:

Before each chapter is covered in class, students are expected to read the chapter. Toward the end of the in-class discussion of this chapter the student will take an online quiz (worth 10 points). Prior to each exam, students will take an online pre-test to help prepare (25 points). Pre-quizzes and quizzes will be made available at the Canvas site for this course. Failure to take any quiz before the closing date will

result in a grade of zero for that quiz. You may take the quiz as many times as you like; only your highest grade will be recorded. (Each time you take the quiz, you will be given a different set of questions.) **Many exam questions will be drawn (with some modification) from the same bank of questions on which the online quizzes are based.**

Recitation: Recitation sections consist of groups of 20-30 students and are administered by teaching assistants. Students are encouraged to ask questions in recitation concerning material covered in class. You are also encouraged to ask your recitation instructor to go through problems in the back of the each text chapter, or questions from any of the quizzes. **Recitation sections will begin during the second week of classes.**

Extra Help: There are numerous avenues for students to find extra help. Weekly recitations are set up primarily to answer questions and go through the material slowly in groups of 20-30. A SI instructor (Taryn Rodman: tmrodman@gmail.com) will establish review sessions where students can ask questions. A University Teaching Fellow (Emily Olsen: emilyols13@yahoo.com) will be available for individual tutoring. In addition, tutorial videos on each individual topic are easily available; a list of suggested videos will be found on the Canvas website. These videos go into detail and at a slower pace than is possible in lecture.

Learning Objectives Students will learn to do the following:
Explain the fundamental nature of atoms and their periodic properties
Discuss the nature of the bonding and shapes of molecules, and forces between them
Describe the properties of reactions in solution
Use thermodynamic reasoning to explain energy transfer
Calculate the relations between the properties of gases

Assessment Assessment of student learning will be performed via analysis of quizzes and exams.

In accordance with the Americans with Disabilities Act, reasonable accommodation will be provided for all persons with disabilities in order to ensure equal participation in Chemistry 1210. A student who requires an accommodation must contact the Instructor. The disability must be documented by the Disability Resource Center. In cooperation with the Disability Resource Center, reasonable accommodation will be provided for students with Disabilities. Course material may be requested in alternate formats through the Disability Resource Center. The administration of Chemistry 1210 will adhere strictly to the academic regulations stipulated in the most recent USU General Catalog. The complete code of Policies and Procedures for Students can be viewed at: <http://www.usu.edu/student-services/studentcode/>

The last day to add this class is the 15th day of the semester. Attending this class beyond that date without being officially registered will not be approved by the Dean's Office.

TENTATIVE SCHEDULE
(Subject to Change)

Chapter	Begin Date
1	Jan 9
2	Jan 13
3	Jan 20
4	Jan 27
Test 1	Feb 3
5	Feb 6
6	Feb 15
7	Feb 22
Test 2	Feb 24
8	Mar 3
<i>SPRING BREAK</i>	<i>Mar 6 - 10</i>
9	Mar 15
Test 3	Mar 22
10	Mar 24
11	Mar 31
12	Apr 7
Test 4	Apr 14
13	Apr 21
Final Exam*	May 3 11:30 – 1:20

*Cumulative covering entire semester