

**CHEM 1423
Spring 2017**

Lecture: Tues./Thur. - 11:00 AM to 12:20 PM - Room 109

Recitation: Tues. - 2:00 PM to 2:50 PM - Room 109

Instructor: Martin Schwartz

Office: Rm 272

Off. Hrs: Monday through Friday 10:00 - 11:00 AM + **ANYTIME**

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or: <http://www.chem.unt.edu/>

And navigate: →People→Faculty→Schwartz→About→Chem 1423

I. COURSE MATERIAL

A. Text: Principles of General Chemistry, 3rd. Ed., Martin S. Silberberg

Textbook HW Solutions: - On course website

B. Chapter	Title	Approx. Starting Date (Week of)
16.	Kinetics: Rates and Mechanisms of Chemical Reactions	Jan. 17
17.	Equilibrium: The Extent of Chemical Reactions	Jan. 31
13.	The Properties of Solutions.....	Feb. 14
18.	Acid-Base Equilibria.....	Feb. 21
19.	Ionic Equilibria in Aqueous System.....	Mar. 7
20.	Thermodynamics: Entropy, Free Energy and the Direction of Chemical Reactions.....	Mar. 21
21.	Electrochemistry: Chemical Change and and Electrical Work	Apr. 4
23.	Nuclear Reactions and Their Applications	Apr. 25

II. HOMEWORK

(A) Homework problems will be assigned from exercises at the end of each chapter. Solutions for these problems will be posted on the CHEM 1423 Web Site.

(B) Additional supplementary questions (with answers) will be handed out with each chapter outline.

Homework will **not** be collected. However, you are **strongly encouraged** to work the required homework, since problems and questions on the exams will be based upon homework and examples worked in class.

I will be happy to solve homework problems (as well as answer other questions) during recitation class.

III. EXAMS

A. GENERAL

1. There will be four one hour exams. The tests will be approximately 60% to 80% multiple choice questions and 20% to 40% problems. Each hourly exam will count 100 points.

The exams will be given in the Thursday Lecture class

No material covered later than the Thursday prior to the test will be on a given exam.

2. There will be a 2 hour comprehensive final exam. The exam will be composed primarily of multiple choice questions. The final will count 200 points.
3. The lowest of the four hourly exams will be **dropped** prior to computing your average.
4. All four hourly Exams and the Final Exam must be taken during the regularly scheduled times. Exams cannot be taken outside the scheduled time.
5. There will **not** be any makeup exams. A missed exam will count as your dropped test (excluding a **well documented** serious illness, requiring hospitalization).
6. If classes are cancelled by the University on the day of a scheduled exam, then the test is automatically scheduled for the next class lecture period.

B. TEST SCHEDULE

Exam #	Date	
1	February 9	11:00 AM
2	March 2	11:00 AM
3	March 30	11:00 AM
4	April 20	11:00 AM

Final Exam Tuesday, May 9: 10:30 AM - 12:30 PM

IV. COURSE GRADING

A. CALCULATION OF AVERAGE

Your average will be calculated as a percentage of 500 points. The average will be calculated after dropping the lowest of the four hourly exams.** The final will count 200 points.:

If a student receives a grade of zero on a test for cheating, it **cannot** be used as the dropped exam.

**On the occasion that keeping all four hourly exams results in a higher average, then no exam will be dropped (and the average will be calculated as a percentage of 600 points). This is relatively uncommon (~10%-20% of student grades).

B. COURSE GRADES

(Based on average calculated to nearest 0.1% after dropped exam)

A: Avg. \geq 90.0%

B: $80.0\% \leq$ Avg. \leq 89.9%

C: $65.0\% \leq$ Avg. \leq 79.9%

D: $50.0\% \leq$ Avg. \leq 64.9%

V. NOTES

1. CHEM 1440 (laboratory) is a separate course from CHEM 1423. Students will receive separate grades for the two courses. Dropping either course does **NOT** automatically drop a student from the other course.
Please note also that you should be signed up for both a Lab. Lecture (CHEM 1440.00x) and a Lab. (CHEM 1440.3xx).
2. **ADA Compliance:** I am happy to cooperate with the Office of Disability Accommodation to make reasonable accommodations for qualified students with disabilities. If applicable, please present your request, with written verification from the ODA, before the first test.
3. By University regulations, a grade of "I" cannot be given as a substitute for a failing grade in a course.
4. Any student caught cheating on an examination will receive an "F" in the course and will be reported to the Dean of Students. In order to protect against potential cheating, I must request that students either refrain from wearing long-billed caps on test days or turn the bill towards the back.
5. There are no "extra credit" assignments in this course. Grades will be determined on the basis of examination scores, as detailed above.
6. You should plan on bringing a scientific calculator to the exams.
7. Talking, giggling, snoring and other disruptive behavior is not acceptable in class. A student engaged in such behavior can be suspended from class for a period of up to one week for the first offense, and longer if the behavior persists.
8. Cell phones should be turned off in class. Under no circumstances is a student permitted to engage in a phone conversation nor in text or instant messaging.

VI. Policy/Penalty for Cheating

The **great majority** of students are honest and ethical, and recognize that their grades in a course will reflect their mastery of the course material as demonstrated on the examinations. However, there are often a few individuals who try to "beat the system" by employing illegal methods during examinations. Academic Cheating will **not be tolerated**.

In order to protect against cheating, students may not use or have on their desk cell phones or any other device which can connect to the internet. Sharing of calculators is strictly prohibited. Students wearing long-billed caps must turn their caps backwards prior to the start of the test. I reserve the right to relocate one or more students at any time during the exam.

Every effort will be made by me and the "Super TA" to ascertain if a student has cheated during an exam. If a student is caught cheating during an examination, the penalty is **very severe** and will result in either:

- (a) a grade of zero (0) on the examination. This zero cannot be used as the dropped test, and will result in at least a two letter grade decrease in course grade, or
- (b) a grade of "F" in the course with notification of the appropriate university official.