

Course: CHEM 110 Section 4

Instructor: Dr. Frank Calvagna

Office: FW 319

Class Schedule: Lecture T and Th 6:00 PM to 7:15 PM in FR 143

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Note: Please do not email me at the NIU email address, I will not receive your message.

#### TENTATIVE Lecture and Exam Schedule

<u>Week</u>	<u>Chapter</u>	<u>Topic</u>
1 1/13	Prologue	Introduction
1/15	1	Chemistry: Methods and Measurements
2 1/20	1	Chemistry: Methods and Measurements
1/22	2	Structure of the atom and the PT
3 1/27	2	Structure of the atom and the PT
1/29	2,	Structure of the atom and the PT
4 2/3		<b>Exam 1 Chapters 1-2 Tuesday 6-7:15p FR 143</b>
2/5	3	Structure and Properties of ionic and Covalent Compounds
5 2/10	3	Structure and Properties of ionic and Covalent Compounds
2/12	3	Structure and Properties of ionic and Covalent Compounds
6 2/17	4	Calculations and the Chemical Equation
2/19	4	Calculations and the Chemical Equation
7 2/24	4	Calculations and the Chemical Equation
2/26	5	States of Matter: Gases, Liquids and Solids
8 3/3		<b>Exam 2 Chapters 3-4 Tuesday 6-7:15p FR 143</b>
3/5	5	States of Matter: Gases, Liquids and Solids
10 3/10		<b>SPRING BREAK</b>
3/12		<b>SPRING BREAK</b>
11 3/17	5	States of Matter: Gases, Liquids and Solids
3/19	5,6	States of Matter: Gases, Liquids and Solids
12 3/24	6	Solutions
3/26	6	Solutions
13 3/31	7	Energy, Rate and Equilibrium
4/2	7	Energy, Rate and Equilibrium
14 4/7		<b>Exam 3 Ch 5-6 Tuesday 6-7:15p FR 143</b>
4/9	8	Acids and Bases and Oxidation-Reduction
15 4/14	8	Acids and Bases and Oxidation-Reduction
4/16	8	Acids and Bases and Oxidation-Reduction
16 4/21	9	The Nucleus, Radioactivity and Nuclear Medicine
4/23	9	The Nucleus, Radioactivity and Nuclear Medicine
17 4/28		<b>Exam 4 covering Ch 7-8 Tuesday 6-7:15p FR 143</b>
4/30		<b>Final Exam Review</b>
18 5/7		<b>Comprehensive Final Exam (CH1-9) 50 questions 6-7:50p FW 143</b>

**Required Text:** Denniston, Topping, Caret sixth ed. "General, Organic and Biochemistry". The NIU bookstore has a custom edition that includes chapters 1 through 9.

**Recommended Text:** Student Study Guide/Solution Manual

**Calculator:** You will need a simple scientific calculator that you are able to use properly. Bring it to lecture and to exams. If you forget your calculator on exam day, you CANNOT share with another student. I do not have calculators to lend.

Recommended: TI-30, 34, or 36 series or similar Casio FX-250/260 (cheapest), FX-115. Any calculator used must be for scientific use, including the functions: log and scientific notation.

**Common Sense Conduct:** No cell phones, pagers, or other electronic intrusions (ipods) allowed. All cell phones may be put in silent/vibrate mode and left on for emergency alerts only.

**My Policy on Academic Honesty Standards:** The faculty and administration expect that NIU students are enrolled in courses as serious and honorable scholars. Furthermore, students are expected to do their own, original work. Students are expected to observe the commonly accepted standards of academic honesty at all times. Scholastic dishonesty will not be

tolerated. This includes **plagiarism** (appropriation of another's work and incorporation into one's own quiz or exam offered for credit) and **collusion (unauthorized)** collaboration with another person in preparing course work offered for credit). This includes having a tutor do your work for you. You may ask them to work similar problems, but not any of the assigned quiz questions. Such acts at anytime will result in a grade of zero (for all persons involved) and are not subject to "make-up" work. For a second offense, the overall course grade will be dropped to a letter grade of "F" and a written statement of the incidents will be submitted to the appropriate academic office.

**Other Study Resources:** The Chemistry Department maintains a tutoring room in Faraday 246 for the benefit of General Chemistry students. It is staffed from approximately 8:30 am-3:30 pm Monday-Friday. Tutoring is free for registered Chem 110 students. Names of tutors who charge for their services are available from Linda Davis in Faraday 319 (the Chemistry Department Office).

**Class Format:** The course will be composed of lectures, pop quizzes, online (BlackBoard) assignments/quizzes, and mass exams. It is imperative that you attend class. As in any science course, the in-class lectures need to be supplemented by your reading of the text, working of problems, and studying for quizzes and exams. If you miss class, it is your responsibility to acquire the lecture notes and any assigned class work from a fellow classmate and you should check BlackBoard each day for postings. You may not take exams at any other time. Solving the problems for each chapter, *with a time limit*, is good practice for the exams. BlackBoard Access: You must know your student id login and password.  
<https://webcourses.niu.edu/webapps/portal/frameset.jsp>

**Exams and Grades:** There will be four examinations during the semester (100 points each). Online assignments and quizzes will be worth another 100 points, and a comprehensive final examination (100 points). The exams will consist of 33 multiple-choice questions, and will be scored by Scantron. Requests for scoring checks must be made within one week from posting of scores on BlackBoard. The exams will be given in room 143 during the normal meeting time.

**Extra Credit:** You may obtain up to 25 points extra credit (5%!) for preparing a 10 minute PowerPoint presentation on any aspect of chemical history. This project may be shared with one other student but you will split the total earned points. (i.e. if the overall presentation receives 20 pts, you each receive 10 points). If the instructor determines that there is a drastic inequity in work distribution (i.e. one student does most or all of the work) the instructor may at their discretion, award the total points earned to that student (and zero points to the other).

**THERE IS NO OTHER EXTRA CREDIT AVAILABLE. I will not respond to email requests for extra credit.**

**Final Grade Determination:** The final grade for the course will be determined from the following possible point totals:

Best three Scores of the Exams and Score Total for Online Quiz/assignments	400
Comprehensive Final Examination (required)	100
Total Possible Points	500

Note that due to circumstances during the semester ending total point value may vary from 500. Your final score is calculated by dividing the total earned points by the total possible.

**The grade assigned will follow a strict percentage.** There is a set amount of knowledge and skill you must demonstrate to achieve your grade, no curve will be applied and the scale will not be modified. **There will not be a curve!** Thus students will be able to evaluate their performance immediately upon posting of scores. The usual scale has already been adjusted to:

**A = 85% or greater, B = 75 - 84% , C = 65 - 74% , D = 55 - 64% , F = 55% or less**

The lowest 100 point exam score (not including the Final Exam) will be dropped. This allows you to miss an exam if absolutely necessary and minimizes the effect of one poor score on the overall grade. Because of this policy: **There will be no makeup quizzes or exams for any reason (this includes medical issues, school activities, vacation, etc)**  
**Also, no extra credit is available.**

**Notification Of Services For Students With Documented Disabilities** NIU abides by Section 504 of the Rehabilitation Act of 1973 which mandates reasonable accommodations be provided for qualified students with disabilities. If you have a disability and may require some type of instructional and/or examination accommodation, you will need to register with the

Center for Access-Ability Resources (CAAR), the designated office on campus to provide services and administer exams with accommodations for students with disabilities. The CAAR office is located on the 4th floor of the University Health Services building (815-753-1303). Accommodations are not retroactive. Please contact me early in the semester so that I can provide or facilitate in providing accommodations you may need.