

Lecture and Exam Schedule

	<u>Week</u>	<u>Chapter</u>	<u>Topic</u>
1	1/18 1/20	1	Introduction; the Scientific Method Chemistry: Methods and Measurements
2	1/25 1/27	1 2	Chemistry: Methods and Measurements The Structure of the Atom and the Periodic Table
3	2/1 2/3	2 2	The Structure of the Atom and the Periodic Table The Structure of the Atom and the Periodic Table
4	2/8 2/10	3	Exam 1 covering Chapters 1–2 Structure and Properties of Ionic and Covalent Compounds
5	2/15 2/17	3 3	Structure and Properties of Ionic and Covalent Compounds Structure and Properties of Ionic and Covalent Compounds
6	2/22 2/24	4 4	Calculations and the Chemical Equation Calculations and the Chemical Equation
7	3/1 3/3	4	Calculations and the Chemical Equation Exam 2 covering Chapters 1–4 emphasizing Chapters 3–4
8	3/8 3/10 3/15 – 3/17	5 5	States of Matter: Gases, Liquids, and Solids States of Matter: Gases, Liquids, and Solid No Lectures; Spring Break Holiday
9	3/22 3/24	5 6	States of Matter: Gases, Liquids, and Solids Solutions
10	3/29 3/31	6 6	Solutions Solutions
11	4/5 4/7	7	Exam 3 covering Chapters 1–6 emphasizing Chapters 5–6 Energy, Rate, and Equilibrium
12	4/12 4/14	7 7	Energy, Rate, and Equilibrium Energy, Rate, and Equilibrium
13	4/19 4/21	8 8	Acids and Bases and Oxidation-Reduction Acids and Bases and Oxidation-Reduction
14	4/26 4/28	8	Acids and Bases and Oxidation-Reduction Exam 4 covering Chapters 1–8 emphasizing Chapters 7–8
15	5/3 5/5	9 9	The Nucleus, Radioactivity, and Nuclear Medicine The Nucleus, Radioactivity, and Nuclear Medicine
16	5/10 6:00–7:50 pm Faraday 143		Comprehensive Final Exam covering Chapters 1–9

Text: *"General, Organic, and Biochemistry, 7th Edition"*, by Denniston, Topping, and Caret; McGraw-Hill (2011). We use a special NIU version that comes in paperback and contains only Chapters 1–9. A Student Study Guide is available, and many students will find it useful. Recommended for students with marginal math backgrounds is: D. M. Goldish, "Basic Mathematics for Beginning Chemistry, 4th Edition", MacMillan, New York, 1990. Copies are available from booksellers, and are on reserve in Faraday Library, Faraday Hall, Room 212.

INFORMATION

Study Resources

Office Hours: I will hold office hours on Tuesdays and Thursdays after lecture until about 8:00 pm. You are welcome to come by without an appointment for class assistance during these times. If you can't make it at these times, you can make an appointment for another time. However, since I have other responsibilities, appointments will be limited. I will answer short, concise questions sent by e-mail, but the turnaround time may not be instantaneous.

Tutoring: The Chemistry Department maintains a free tutoring room in Faraday 246 for the benefit of Chem 110 students. It is staffed sporadically; students should look for posted schedules in Faraday and La Tourette Halls. Names of tutors who charge for their services are available from Linda Davis in Faraday 319 (the Chemistry Department Office). In addition, the NIU ACCESS program provides further assistance with course material through its Supplemental Instruction (SI) system. Further information on this will be provided when available.

Blackboard: Class documents, such as this syllabus, some lecture material, and exam keys will be posted on Blackboard. Thus, you should make certain you know how to access Blackboard.

Homework: Homework will not be assigned. Solving the problems at the end of each chapter, *with a time limit*, is good practice for the exams, since exam questions will be taken from a test bank associated with the text.

Exams and Grades

There will be four examinations given during the semester (100 points each), and a comprehensive final examination (100 points) given during finals week. The exams will consist of 25 multiple-choice questions, and will be scored by Scantron. Requests for scoring checks must be made within one week from the day the scores are posted on Blackboard.

The final grade for the course will be determined from the following possible point totals:

Best Three Scores of the Four In-semester Exams	300
<u>Comprehensive Final Examination</u>	<u>100</u>
Total Possible Points	400

The lowest score of the in-semester exams 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 exams. Also, no extra credit is available.** The professor will deal with any issues that affect your ability to take exams (such as medical problems or snow closures) on a case-by-case basis. His decision is final.

There is one further modification of the grading system: any student scoring less than 7 out of 25 (28%) on the comprehensive final examination will receive a grade of F for the course, regardless of that student's performance on the previous exams.

The faculty of the Department of Chemistry and Biochemistry voted in November 2008 to institute a capped grade point average requirement for Chem 110. The average GPA in Chem 110 is required to be 1.85 ± 0.15 , i. e., in the range 1.70–2.00. **The average class GPA cannot be above 2.00.** This means that regardless of class performance, not every student can earn an A or B. It also means it is impossible to determine what your individual exam scores mean in terms of a grade, or what your final grade is until after the Final Examination, because your final grade will depend on your performance vs. that of every other student in the class. The grading scale embodies the statistical curve, with most students earning grades of C, some earning Bs and Ds, and a small number earning As and Fs.

For your information, based on previous class statistics, a plausible distribution is that in a class of 200 students, there will be 15 As, 30 Bs, 80 Cs, 60 Ds, and 15 Fs. This corresponds to an average class GPA of 1.85.

If you find this fixed GPA requirement inconsistent with intelligent grading policy, you should complain to Professor Jon Carnahan, Chair of the Department of Chemistry and Biochemistry, 319 Faraday Hall.

Academic Dishonesty (cheating): Academic dishonesty includes (but is not limited to) looking at another student's exam during a testing session, allowing another student to copy your work, and use of unauthorized materials (e.g., lecture notes, crib sheets, textbooks, prohibited electronic devices including pagers, cell phones, or programmable calculators containing stored equations, formulas, or text) during exams. Violation of any of these terms will result in assignment of a score of zero for the exam in question. **CHEATING IN ANY FORM WILL NOT BE TOLERATED AND MAY RESULT IN FAILURE OF THE ENTIRE COURSE.**

NIU abides by Section 504 of the Rehabilitation Act of 1973, which mandates that reasonable accommodations be provided for qualified students with disabilities. If you have a disability that requires accommodations, please contact me early in the semester so that I can help provide them. Before contacting me, you must 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).