

CHEMISTRY 121 MINIMUM COURSE COVERAGE

Text—*Chemistry, 7th Edition, Zumdahl/Zumdahl*

Read all assigned chapters. While all of the assigned reading material is useful in gaining an understanding of chemical principles, some topics will be covered in less detail in the lecture than they are in the text. The assigned homework is designed to give practice on a range of representative problems and to provide some indication of relative emphasis on the various topics within each chapter. Answers to most, but not all, of the assigned problems can be found in the back of the book. Individual lecturers may assign additional readings and/or problems from the text or other sources (for example, the ChemSkill Builder electronic homework system) for which you will be responsible on quizzes and hour exams.

FINAL EXAMINATION for all Chemistry 121 sections (Mass Examination) Friday, May 1, 2009, 3:00 – 5:00 p.m.

On the Final Examination you will be responsible for material covered in **both the lecture and the laboratory.**

Assigned Reading	Questions & Problems
Chapter 1 Chemical Foundations	17, 19, 27, 31, 33b & f, 35, 37c, 39a, 43, 57, 58, 59, 60, 67, 69, 71, 79, 83a & b. Memorize the names and symbols for the first 38 elements in the periodic table.
Chapter 2 Atoms, Molecules, and Ions	15, 17, 19, 21, 25, 47, 49, 51, 53, 55, 57, 61, 63, 65, 67, 79, 81, 85. Memorize the names and formulas (including charges) for the common polyatomic ions - http://www.utm.edu/departments/cens/chemistry/documents/COMMONPOLYATOMICIONS.pdf
Chapter 3 Stoichiometry	29, 35, 37, 53, 55a & c, 57, 59a, 61, 69, 75, 81, 83, 91, 95, 103, 109, 115, 121, 135
Chapter 4 Types of Chemical Reactions and Solution Stoichiometry (omit sections 9 & 10)	9b & c, 13, 19 (also write a reaction for each substance in 17), 21a & b, 23a - c, 27, 29a & b, 35a - e, 37, 39, 43a, b, & c, 51, 55, 59, 61, 63, 103, 107
Chapter 5 Gases	21, 23, 27a & b, 31, 33, 35, 39, 43, 49, 53, 59 (review Gay-Lussac on page 44 and problems 2.25 and 85), 61, 62, 65, 67, 69, 71, 81, 83, 85, 99, 109, 123
Chapter 6 Thermochemistry	31, 33, 35, 41, 43, 49, 51, 53, 57, 59, 61, 65, 67, 71, 85, 91, 103
Chapter 7 Atomic Structure and Periodicity	23, 27, 29, 31, 35, 39, 67, 69, 73, 81, 85, 87, 95, 97, 99, 101, 121, 123, 133
Chapter 8 Bonding: General Concepts (omit section 5)	13, 15, 17, 23, 25, 27, 29, 33, 35, 37, 39a-c, 41, 53, 57, 63, 67, 69, 71, 73, 79
Chapter 10 Liquids and Solids (omit sections 3 - 7)	19, 29, 31, 33, 35, 87, 91, 99, 109, 117
Chapter 11 Properties of Solutions	11, 13, 15, 21, 25, 29, 31 (omit normality & ignore the last sentence), 7, 43, 45, 49, 57, 59, 63, 65, 69, 71b, 85

The final examination at the end of the second semester of general chemistry (Chemistry 122) is comprehensive of the entire year's work. Be sure to save your notes and study materials from Chemistry 121.

Any student eligible for and requesting academic accommodations due to a disability is requested to provide a letter of accommodation from P.A.C.E. or Student Academic Support Center within the first two weeks of the semester.