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CHEM 151N.00: General and Inorganic Chemistry

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CHEM 151N – FALL 2000

GENERAL & INORGANIC CHEMISTRY

INSTRUCTOR: Dr. Garon C. Smith
Office: CP 109A
Laboratory: CP 005

e-mail: garons@selway.umt.edu
Phone: 243-5606 (voice mail)
Phone: 243-4269 (grad students)

OFFICE HRS: 10:10-11:30 T-F. Other times by appointment.

Office hours will be met in CP109A. Periodically, I have meetings or off-campus duties that conflict with class or office hours. When possible, I will notify you in advance about these times.

TEXT: *Introduction to General, Organic, and Biological Chemistry. 6th Edition* by Frederick A. Bettelheim, William H. Brown and Jerry March, 2001, Harcourt College Publishers, 713 p. plus appendices
(Optional) *Study Guide for Fundamentals of General, Organic, and Biological Chemistry. 6th Edition* by W. Scovell, 2001, Harcourt College Publishers

OBJECTIVE: CHEM 151N is aimed at students who require a working knowledge of chemistry for careers in fields such as forestry, resource management, wildlife biology, nursing and physical therapy. It provides a foundation of chemical principles illustrated through their application to "real world" examples. The first ten weeks develop skills in fundamental chemistry - atomic and molecular theory, chemical bonding, chemical reactions (precipitation, acid/base and redox), states of matter, aqueous solution chemistry and nuclear chemistry. In addition, you will gain experience with analytical thinking and quantitative problem solving. The last five weeks introduce organic chemistry – the study of carbon-containing compounds.

GRADING: Grades for Chem 151 will be determined through a combination of weekly quizzes, hour exams and a comprehensive final exam. Representative questions and practice problems will be assigned from each chapter in the text. Because of class size, it is impractical to collect and grade these as homework. You should thoroughly understand these exercises since good performance on the quizzes and tests relies on being able to complete similar tasks on the exams/quizzes in a timely manner.

Persons who miss an exam or quiz due to sudden illness or other extenuating circumstances should contact me in person, leave a voice mail message at (406) 243-5606 or e-mail within 48 hours of the test time. I will then make appropriate arrangements. **No credit will be given for a missed examination or quiz once the 48-hour notification period has expired.**

If you find errors in grading or wish to have exam questions regraded, write your concerns on your exam and return it to me within two working days of the date on which graded exams were first available for pick up. No points will be adjusted beyond this time period.

Averages for Part 1 of the course will be computed according to the following weighting scheme:

8 quizzes (drop one)	25%
4 hour exams (drop one)	50%
<u>Final exam</u>	<u>25%</u>
Total	100%

OTHER DATES: Last day to drop/add classes by Dial Bear and receive full refund is Monday, September 25th; "W" after this date on transcript. The last day to drop and add courses, change sections or change grading option with instructor and advisor signatures on drop/add form is Monday, October 16th. "WP" or "WF" after this date on transcript; no refund, \$10 fee.

Fall 2000 Tentative Lecture Schedule

9/5-9/8	Chapter 1 - Matter, Energy and Measurement	pp. 1-25
9/12-9/19	Chapter 2 - Atoms	pp. 26-55
9/20-9/28	Chapter 3 - Chemical Bonds	pp. 56-81
9/29-10/5	Chapter 4 - Chemical Reactions	pp. 82-110
10/6-10/12	Chapter 5 - Gases, Liquids and Solids	pp. 111-141
10/13-10/19	Chapter 6 - Solutions and Colloids	pp. 142-170
10/20-10/25	Chapter 7 - Reaction Rates and Equilibrium	pp. 171-194
10/26-11/1	Chapter 8 - Acids and Bases	pp. 195-223
11/2-11/4	Chapter 9 - Nuclear Chemistry	pp. 224-250
11/9-11/14	Chapter 10 - Organic Chemistry	pp. 251-264
11/15-11/21	Chapter 11 - Alkanes and Cycloalkanes	pp. 265-290
11/28-12/1	Chapter 12 - Alkenes and Alkynes	pp. 291-319
12/5-12/8	Chapter 13 - Alcohols Ethers and Thiols	pp. 320-340
12/14-12/16	Chapter 14 - Benzene and Its Derivatives	pp. 341-354

Tentative Recitation/Quiz/Exam Schedule

Mon, Sept 11	Quiz #1	Ch 1
Mon, Sept 18	Quiz #2	Ch 2
Mon, Sept 25	Review for Exam #1	
Tue, Sept 26	Exam #1	Ch 1-3(start)
Mon, Oct 2	Quiz #3	Ch 3(end)
Mon, Oct 9	Quiz #4	Ch 4
Mon, Oct 16	Review for Exam #2	
Tue, Oct 17	Exam #2	Ch 3(end) - 6(start)
Mon, Oct 23	Quiz #5	Ch 6(end)
Mon, Oct 30	Quiz #6	Ch 7
Mon, Nov 6	Review for Exam #3	
Tues, Nov 7	Election day, no class	
Wed, Nov 8	Exam #3	Ch 7-9
Fri, Nov 10	Veteran's Day, no class	
Mon, Nov 20	Quiz #7	Ch 10-11
Mon, Dec 4	Quiz #8	Ch 12-13
Mon, Dec 11	Review for Exam #4	
Tues, Dec 12	Exam #4	Ch 10-13
Mon, Dec 18	Final exam (4:10 lecture)	Comprehensive
Tues, Dec 19	Final exam (12:10 lecture)	Comprehensive