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CHMY 121N.00: Introduction to General Chemistry

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CHMY 121N – SPRING 2013 INTRODUCTION TO GENERAL CHEMISTRY

INSTRUCTOR: Dr. Garon C. Smith e-mail: garon.smith@umontana.edu

Office: Chemistry 002 Phone: 243-5606 (voice mail)

Laboratories: Chemistry 008

OFFICE HRS: M & T 11:10; W & Th 10:10; F 12:10 other times by appointment. Office hours will be met in Chemistry

002. 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.

MATERIALS: Chemistry 121: Introduction to General Chemistry, Volume 1 (Introduction to General, Organic,

and Biochemistry. 10th Edition by Frederick A. Bettelheim, William H. Brown, Mary K. Campbell and Shawn O. Farrell), 2012, Brooks Cole Cengage Learning, 321 p. plus appendices. With the purchase of a new text you also get the Solutions Manual for Introduction to General, Organic, and

Biochemistry, 10th Edition and access to the OWL online practice problem software.

OBJECTIVE:

CHMY 121N is aimed at students who require a working knowledge of chemistry for careers in fields such as forestry, resource management, wildlife biology, botany, zoology, nursing, medical technology, physical therapy, athletic training, exercise science, forensic anthropology and environmental studies. It provides a foundation of chemical principles illustrated through their application to "real world" examples, especially those with environmental, physiological or medical implications. The course systematically develops skills in fundamental chemistry - atomic and molecular theory, nuclear chemistry, chemical bonding, chemical reactions (precipitation, acid/base and redox), states of matter, and aqueous solution chemistry. In addition, you will gain experience with analytical thinking and quantitative problem solving. Organic chemistry – the study of carbon-containing compounds – is integrated into lecture throughout the semester

GRADING:

CHMY 121 can ONLY be taken for traditional grades (A, B, C, D, F). Pluses and minuses are awarded as appropriate. The Credit/No Credit option IS NOT available. Grades for CHMY 121 will be determined through a combination of weekly quizzes, online homework assignments, hour exams and a comprehensive final exam. Representative questions and practice problems will be assigned from each chapter in the text. You should thoroughly understand these exercises since good performance on the quizzes, homework and tests relies on being able to complete similar tasks on the exams/quizzes in a timely manner. Attendance is not taken.

Persons who miss an exam or quiz due to illness or other extenuating circumstances should contact me in person, leave a voice mail message at (406) 243-5606 or send me an e-mail no later than 48 hours after the test time. I will then make appropriate arrangements. Arrangements after the 48-hour notification period has expired are at the instructor's discretion. All lecture materials are available on ITunesU and electronic reserve at http://eres.lib.umt.edu Password: CHMY121.

If you find errors in grading or wish to have exam/quiz questions re-graded, write your comments on your exam/quiz and return it to me within two working days of the date on which graded exams were first available for pick up. Grades adjusted beyond this time period are at the instructor's discretion.

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

9 quizzes (drop one)	25%
4 hour exams (drop one)	50%
Final exam	25%
Total	100%

This course is accessible to and usable by otherwise qualified students with disabilities. To request reasonable program modifications, please consult with the instructor. Disability Services for Students will assist the instructor and student in the modification process. For more information, visit the Disability Services website at http://www.umt.edu/disability.

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student conduct Code. The Code is available for review online at http://life.umt.edu/vpsa/student conduct.php.

OTHER DATES: Last day to pay or finalize your registration bill before a \$40 late fee is Wednesday, January 30th. Last day to drop/add classes without consent is Tuesday, February 5th. Last day to add/drop by paper or CyberBear overrides, receive a partial refund or choose an audit option is Friday, February 15th. Drops with advisor and instructor signatures, "W" on transcript and \$10 fee per drop until Monday, April 8th.

Drops by petition to dean until Friday, May 10th.

COURTESY:

This is a large class and can get noisy at times. Please respect those who want to hear by not participating in disruptive conversation, by not allowing cell phones to ring or by making derogatory remarks to others. On exam days, there will probably be a seating overflow. Please be as accommodating as possible.

Spring 2013 Tentative Lecture Schedule			
1/29-2/8	Chapter 1 - Matter, Energy and Measurement	pp. 1-30	
2/12-2/21	Chapter 2 - Atoms	pp. 31-67	
2/22-3/1	Chapter 9 - Nuclear Chemistry	pp. 276-306	
3/5-3/14	Chapter 3 - Chemical Bonds	pp. 68-107	
3/15-3/27	Chapter 4 - Chemical Reactions	pp. 108-140	
3/28-4/16	Chapter 5 - Gases, Liquids and Solids	pp. 141-177	
4/17-4/24	Chapter 6 - Solutions and Colloids	pp. 178-209	
4/25-5/3	Chapter 7 - Reaction Rates and Chemical Equilibrium	pp. 210-239	
5/7-5/10	Chapter 8 - Acids and Bases	pp. 240-275	

Tentative Recitation/Quiz/Exam Schedule			
Mon, Feb 4	Quiz #1	Ch 1(start)	
Mon, Feb 11	Quiz #2	Ch 1(end)	
Mon, Feb 18	President's Day – no class		
Tues, Feb 19	Exam #1	Ch 1 - 2(start)	
Mon, Feb 25	Quiz #3	Ch 2(end)	
Mon, Mar 4	Quiz #4	Ch 9	
Mon, Mar 11	Review for Exam #2	Ch 2(End), 9, Ch 3(start)	
Tue, Mar 12	Exam #2	Ch 2(End), 9, Ch 3(start)	
Mon, Mar 18	Quiz #5	Ch 3(end)	
Mon, Mar 25	Quiz #6	Ch 4(start)	
Apr 1 – Apr 5	Spring break - no class		
Mon, Apr 8	Review for Exam #3	Ch 3(end) - Ch 5(start)	
Tues, Apr 9	Exam #3	Ch 4(end) - Ch 5(start)	
Mon, Apr 15	Quiz #7	Ch 5(middle)	
Mon, Apr 22	Quiz #8	Ch 5(end) - Ch 6(start)	
Mon, Apr 29	Review for Exam #4	Ch 5(end) - Ch 7(start)	
Tues, Apr 30	Exam #4	Ch 5(end) - Ch 7(start)	
Mon, May 6	Quiz #9	Ch 7(end)	
Fri, May 17	Comprehensive final exam (10:10 am - 12:10 pm)	Ch 1 – Ch 9	