

CHEMISTRY 120A

AUTUMN 2004

Dr. Deborah Wiegand, 174F Mary Gates Hall, wiegand@u.washington.edu

Goals/Objectives: Our goal in Chem 120 is to challenge you to develop an understanding of chemical systems and an ability to solve problems using chemical concepts. By the end of Chem 120 you should more fully understand atomic and molecular structure, reactivity, and reaction stoichiometry

Materials: Available at University Bookstore except where indicated.

Steven Zumdahl, *Introductory Chemistry: A Foundation*, 5th edition, Houghton Mifflin.

Chemistry 120 Laboratory Manual (available at Odegaard Copy Center).

Scientific calculator, goggles, lab coat (available at University Stores), and laboratory notebook.

WebAssign access card (also available on-line at <http://www.webassign.net/v4.html>).

Lectures: Mondays, Tuesdays, Wednesdays, Thursdays; 8:30-9:20am; Bagley 131

Lectures will not necessarily follow the text, but you are responsible for all material covered during lecture including demonstrations and videos.

Course website: Click on Chem 120 for Autumn 2004 at <http://depts.washington.edu/chemcrs/index.html>.

Teaching Assistants: The following teaching assistants are assigned to our course. Please use them as a resource to help you with studying, writing laboratory reports, and doing homework. Their names and e-mail addresses are

Matthew Adams	oblivion@u.washington.edu
Scott Braswell	sbras@u.washington.edu
Kim Kaufman	kkaufman@u.washington.edu
Lindsay Merte	lmerte@u.washington.edu
Haley Pugsley	pugsleyh@u.washington.edu
René Reinhold	renne@u.washington.edu
Brent Siemssen	siemssen@u.washington.edu
Jeff Stein	jjstein@u.washington.edu
Colin Whitmore	cwhitmor@u.washington.edu

Exams: Three midterm exams are scheduled for October 20th, November 10th, and December 1st. Emphasis on the tests will be on your ability to understand the concepts and apply them to new situations. Questions will cover the textbook, lecture material including demonstrations, and laboratory experiments. Some of the questions on exams will be multiple choice, some will be quantitative problems, and others will require you to write a brief paragraph. The final exam is comprehensive and is scheduled for Tuesday, December 14th from 8:30-10:20am in Bagley 131. Please bring a photo ID with you to all examinations.

Study Group: You will partner with three other students in your quiz section to form a study group. Your group will meet with Dr. Wiegand as a group once during the quarter (sign-up in quiz section) and will work together to complete a homework assignment each week (see #1 under Homework).

Homework: Two types of homework assignments are due each week:

- 1) On Wednesdays by noon each Study Group must submit a multiple choice question to their TA via e-mail.
- 2) On Fridays by 11:00pm each student must submit a set of homework problems via WebAssign. Late assignments are not accepted.

Laboratory sections: Five times during the quarter you will meet in Bagley 133 to perform a laboratory exercise as outlined in the *Chemistry 120 Laboratory Manual*. To pass the course, you must attend all laboratory sessions. Details about policies, laboratory safety, procedures, and requirements are included in the manual.

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Resources to help you succeed in Chem 120: The following are times and places for individual assistance. Office hours: Dr. Wiegand & teaching assistants will be available for office hours beginning the week of Oct. 4th.

Chemistry Study Center, Bagley 330

Instructional Center (IC) on 40th St.

Center for Learning and Undergraduate Enrichment (CLUE), Mary Gates Hall.

Grading: The Chemistry Department Undergraduate Program Committee policy states that the mean GPA for final grades in Chem 120 should fall within the range 2.6 ± 0.2 . The policy also states that grade changes of 0.1 will not be made after final grades are submitted to the Registrar's Office. Grades will be assigned on the basis of 610 points as follows:

Midterms, 3 @ 70 points each.....	210
Laboratory 5 @ 20 points each.....	100
Homework, 20 @ 5 points each.....	100
Final exam.....	200

Schedule

<i>Week of</i>	<i>Text Coverage</i>	<i>Laboratory Exercise</i>
September 29 th	Chapter 1	None
October 4 th	Chapters 2 (except 2.6) and 3	None
October 11 th	Chapters 3 and 4	#1: Density Determination
October 18 th	Chapters 4 and 5	None

EXAM 1, Wednesday, October 20th, Chapters 1,2(except 2.6), 3, 4; Lab 1

October 25 th	Chapters 5 and 6	# 2: Calorimetry
November 1 st	Chapters 6 and 7	# 3: Analysis of Consumer Products
November 8 th	Chapter 7	None

EXAM 2, Wednesday, November 10th, Chapters 5,6,7; Labs 2,3

November 15 th	Chapters 8 and 2(2.6)	None
November 22 nd	Chapter 9	# 4: Classes of Chemical Reactions
November 29 th	Chapter 10	None

EXAM 3, Wednesday, December 1st, Chapters 2(2.6),8,9,10; Lab 4

December 6 th	Chapter 11	# 5: Molecular Geometry
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FINAL EXAM, Tuesday, December 14th, 8:30-10:20am; Chapters 1-11; Labs 1-5

If you would like to request academic accommodations due to a disability, please contact Disabled Student Services, 448 Schmitz Hall, 543-8924 (V/TDD). If you have a letter from Disabled Student Services indicating you have a disability that requires academic accommodations, please present the letter to me so we can discuss the accommodations you might need for this class.