

Chemistry 222 (sec 1)

Syllabus

Winter 2008

Instructor: Dr. Gwen Shusterman
Science Building II, Room 350, 725-3897, email: shustermang@pdx.edu
web page: web.pdx.edu/~shusteg

Office Hours: M 12-1, W 9-10, R 10-11

Text: Chemistry 1st Edition, Tro, Pearson/Prentice Hall, 2008.

Exams: There will be two one-hour midterms (100 pts each), two short quizzes (25 pts each) and a two-hour final (200 pts) (see schedule). The final exam will be cumulative. The material to be covered during each exam is shown on the schedule.

Homework: There will be regular problem assignments. These will *not* be turned in for grading. Some quiz and midterm problems may be taken from these problem sets. The answers to these problems are provided in the back of the text and in the solutions manual. **Success in this course is strongly correlated with time spent working problems.**

General Info: You are responsible for all information given during class times. This includes homework assignments and any special announcements or schedule changes. Deadlines and course information will frequently be posted on the class WEBCT calendar page or on the announcement page.

Participation: Participation points will be given for being present and participating in the in-class activity and problem sessions and completing the class web assignments. In addition, you should choose to *either* enroll in workshops, CH 285, OR complete the Mastering Chemistry (on-line homework) chapter problems assigned for participation points. See attached pages for instructions to access Mastering Chemistry.

Grading: Grades will be based on the cumulative scores of exams and quizzes, plus participation points (approximately 15% of the grade). The following scores guarantee the grade shown; however, the instructor may choose to revise these percentiles downwards if class performance warrants it.

Grade Score	A ≥ 90%	B ≥ 80%	C ≥ 65%	D ≥ 55%	F < 55%
-------------	------------	------------	------------	------------	------------

Policies:

1. Missing an Exam: If you miss an exam, please contact me within 24 hours. I will allow you to reschedule your exam only if your absence was excused, EXCEPT in the following cases, where you will need to take the exam ahead of time:

- a) Previously scheduled work or family commitments
- b) School-sponsored field trips or athletic events

Illness, work conflicts and family emergencies are considered excused absences. Other instances will be evaluated on a case by case basis. All exams must be made up before the exams are passed back in class. Failure to notify me of the reason for your absence, as well as unacceptable excuses, will result in a score of zero for that exam.

2. Professional Demeanor: It is expected that you will act with professional demeanor and attitude at all times. This includes, but is not limited to, being respectful at all times to the instructor and to your colleagues. **It also expected that you refrain excessive talking, cell phone use, or disruptive internet use in class.**

3. “Margin of Error Percent”: Mistakes are sometimes made while grading exams; the good news is that they are usually addition errors, which I will happily “fix at no charge.” On any given exam, you may not perform up to your potential and your exam may not show how much you know. Exam scores have a margin of error. If you believe there has been a serious mistake on grading your exam, you may ask me to regrade exam *up to one week after the exam is returned*. If I determine there has been an error in grading your exam and it increases your score by 5 or more points, I will again happily “fix at no charge”. If there is not a significant error on your exam and you have asked for a regrade, you will lose your 2% margin of error. On the other hand, if you choose not to ask for regrades on exams (this does not include addition errors or grading errors I determine), a bonus of 2% is added to your overall score at the end of the term. *It is also possible to lose your margin of error percent due to unprofessional behavior.*

4. Dishonesty: I expect that the work you do in this course is your own. Academic dishonesty, which includes a variety of actions, will not be tolerated in this course. Cheating during any examination will be reported and the student(s) will receive an “F” for the exam.

5. Accommodation: If you have a physical or learning disability and you need extra accommodation, please be certain you are registered with Disability Services and make appropriate arrangements with me.

Chemistry 222

Lecture and Exam Schedule
(Coverage may vary slightly from schedule)

Week 1

Date	Meeting/Day	Activity	Chapter	Material
Jan 7	1 / M	Lecture	6	Introduction/Energy
Jan 9	2 / W	Lecture	6	Calorimetry
Jan 11	3 / F	Lecture	6	Enthalpy

Week 2

Date	Meeting/Day	Activity	Chapter	Material
Jan 14	4 / M	Lecture	6	Thermochem
Jan 16	5 / W	Lecture	6	Hess's Law
Jan 18	6 / F	Lecture / Quiz	5,6	Gases / Thermo

Week 3

Date	Meeting/Day	Activity	Chapter	Material
Jan 21	7 / M	Holiday		
Jan 23	8 / W	Lecture	5	Gas Laws / Dalton's Law
Jan 25	9 / F	Lecture	5	Kinetic Molecular Theory

Week 4

Date	Meeting/Day	Activity	Chapter	Material
Jan 28	10 / M	Review	5/6	
Jan 30	11 / W	Midterm	5/6	
Feb 1	12 / F	Lecture	11	Liquids/Phase Changes

Week 5

Date	Meeting/Day	Activity	Chapter	Material
Feb 4	13 / M	Lecture	11	Intermolecular Forces /Props of Solids
Feb 6	14 / W	Lecture/prob	11	Solid Structure
Feb 10	15 / F	Lecture	12	Solutions

Week 6

Date	Meeting/Day	Activity	Chapter	Material
Feb 11	16 / M	Quiz/Lecture	11/12	Concentration
Feb 13	17 / W	Lecture	12	Solubility
Feb 15	18 / F	Lecture	12	Colligative Properties

Week 7

Date	Meeting/Day	Activity	Chapter	Material
Feb 18	19 / M	Review	11/12	
Feb 20	20 / W	Midterm	11/12	
Feb 22	21 / F	Lecture	13	Kinetics

Week 8

Date	Meeting/Day	Activity	Chapter	Material
Feb 25	22 / M	Lecture	13	Kinetics
Feb 27	23 / W	Lecture	13	Kinetics
Mar 1	24 / F	Lecture/Prob	13	

Week 9

Date	Meeting/Day	Activity	Chapter	Material
Mar 3	25 / M	Lecture	14	Equilibrium
Mar 5	26 / W	Lecture	14	Equilibrium
Mar 7	27 / F	Lecture	14	Equilibrium Constants

Week 10

Date	Meeting/Day	Activity	Chapter	Material
Mar 10	28 / M	Lecture	14	Le Chatlier's
Mar 12	29 / W	Lecture	14	Equilibrium Applications
Mar 14	30 / F	Review	5,6,11-13	All

Final Exam

Date	Day	Time	Activity	Material
Mar 19	W	10:15-12:05	Exam	Chap 5,6,11-13

Disclaimer:

As the instructor of this course, I reserve the right to change the tentative schedule of topics, number and length of examinations, point distribution, course requirements, and percentages required for letter grades in order to better facilitate the learning process.