

Chemistry 104 -- General Chemistry (CRN 10515, 4 cr)
Portland State University, Fall, 2008

Instructor: Ms Julie Peyton, adjunct professor, Science Bldg II, room 306; phone # 503-725-4566. E-mail me via BlackBoard. Please do your best to contact me in person, either in the classroom or during office hours. Imagine 188 students, all sending me e-mails for making phone calls...

Office hours: Fridays 10:20-11:30. Also I usually get to class 15 minutes early.

Class times: MWF 9:00 - 10:05 a.m. **Location:** Shattuck Hall, rm 212

Required texts: (1) Raymond, Kenneth W., General, Organic, and Biological Chemistry: an integrated approach. John Wiley & Sons, Inc., 2006 The PSU bookstore should have several options, including hardback and loose-leaf (3-hole punched.) [**NB:** CH 107, for which you should be enrolled concurrently with this course, requires a lab manual; check the bookstore.]

Course Description: A survey of chemistry for students in nursing, allied health fields such as dental hygiene, forestry, and the liberal arts. This course is not intended for science or engineering majors. Ch 104, 105, and 106 must be taken in sequence. CH 104 requires concurrent enrollment in the lab course, CH 107. Also please note that the laboratory for this class is SEPARATE from the lecture portion: different CRN, different instructor. You must register for the lab (i.e., don't assume that because you've registered for 104 that you are automatically enrolled in 107).

Prerequisite: Two years of high school algebra or Mth 95. *Math skills tend to be the limiting factor for how well you do in chemistry*; if your math skills are weak and you want/need to do well in this class, I *strongly* recommend that you postpone taking CH104 until you are sure you can handle the math comfortably.

BlackBoard: This course will be supported by BlackBoard Learning System, where you will be able to read/download course materials, take practice quizzes, submit homework or projects, see your grades, participate in on-line discussions, and generally enjoy all that this wonderful program has to offer. Before you can begin, you'll need an ODIN account. The fine Tech Wizards at Smith Center basement can help you out.

Attendance: Attendance will not count in the final grade, but you are responsible for information (corrections, changes in dates, assignments) given during class time. Get that information either from BlackBoard or from a classmate. Do **not** expect to get it from me (i.e., do **not** e-mail me or call me or otherwise ask me what you missed.) I recommend that you make friends with your classmates, so you can swap such information quickly and efficiently.

Grading: There will be two midterm exams (100 points each, comprehensive), a final (150 points, comprehensive, *scantron 882E*), and 5 homework assignments (20 points each; approximately every other week).

Midterms	200 pts	
<i>Homework*</i>	100	
Final (bring scantron, 882E)	150 pts	(Tues, 12/9/2008, 8-9:50 a.m.)
Total	450 pts	

***Caveat:** *because of the very large #students this term, and the very small #TAs, we may have to change how homework is handled. Please be patient whilst we figure this out.*

Grades will be assigned by the **higher of these two options:** (1) by percentage of total (450) points, (2) the percentage of your final exam (150 pts).

94% and above is an A

90-93% is an A-

88-89% is a B+

84-87% is a B

80-83% is a B- and so forth.

I do not grade “on a curve.” I do “round up”: e.g., anything **above** 93.0 % = 94%. Also, I tend to “soften” those percentages for the C and lower grades.

Making up late/missed assignments: Missed exams can be made up by using the Testing Center (testing.pdx.edu), which charges a fee (it was \$10 last year). Late homework will **not** be accepted for grading. *Don't ask me to make exceptions*, but do ask me to define "late" – it is a little interesting with assignments submitted on Blackboard.

ADA requirements: If you have a disability and need an accommodation, please make arrangements to meet with me outside of class so we can plan ahead. PSU students requesting accommodations must provide documentation of disability and work with Disability Resource Center (4th floor of Smith Center).

Cheating: Unfortunately temptations and opportunities exist for cheating. If you are caught *cheating or abetting this behavior*, you will receive a "0" for that assignment, and you will *also* experience the drop, *by one full letter*, of your final grade. If I catch you twice, or if your cheating is egregious enough (by my evaluation), you'll be given an "F" for the course, and referred to the Student Affairs office. This could result in your expulsion from *all* PSU classes, and you may be blocked from registering at PSU in the future. So don't do it.

Withdrawals: Should this option become necessary, it is your responsibility to withdraw officially via the Internet or the Registrar's Office. Check the PSU bulletin for details of policies and procedures.

Tentative Chemistry 104 schedule (Chapters 1-6) This is my second year with this textbook, so expect variations in material/chapters covered, but NOT in exam dates.

Wk #	Chapter and Lecture Topics	Comments
1-2	Ch 1: Science and Measurements	The basics; what is and isn't science; units & metric prefixes, some math skills.
3	Ch 2: Atoms and Elements	I may add some more historical info that falls between Dalton's model and the modern (quantum mechanical) view. Counting vs. weighing. Radioisotopes
4-5	Ch 3: Compounds Midterm #1 10/31 (Friday of Week 5)	Ions & ionic compounds; covalent bonds & molecules. Sure we describe bonding, but we also introduce <i>nomenclature</i> .
6-7	Ch 4: Intro to Organic Chem.	Molecular structure; carbon-based chemistry.
8	Ch 5: Gases, Liquids, Solids	All the math is in the Gas Laws; the other two phases are discussed <i>qualitatively</i> .
9-10	Ch 6: Reactions Midterm #2 12/3 (Wednesday of Week 10)	<i>Really important stuff!</i> The last day of class, 12/5, will be a review day.
11	Final Exam TUESDAY, 8 a.m.- 9:50 a.m.	Note that this is NOT our usual <u>day</u> of the week or <u>time</u> .

We may cover more material, if the class is assimilating the above chapters easily.

Holidays are November 11 (Veterans Day), 27-28 (Thanksgiving)

The calendar may be changed in response to institutional, weather, or class problems.

The small print: the instructor reserves the right to change the provisions of this syllabus at any time, if she feels it will benefit the class.