Chemistry 105 – Intro to Chemistry II (CRN 40603, 4 cr)
Portland State University, Winter Term, 2013
MWF 9:00 - 10:05 a.m.; Science Bldg I, room 107

Instructor: Ms Julie Peyton, adjunct professor; Science Bldg I, room 506. Email me via Desire2Learn (d2l, see below), not by whatever e-mail or is listed with PSU.

Office hours: Fridays 10:20-11:10. For quick questions ask me before/after class.

Required texts: Frost, Deal, and Timberlake, General, Organic, and Biological Chemistry: An Integrated Approach, Prentice Hall. 2011, ISBN 978-0-8053-8178-8 [NB: CH 108, for which you should be enrolled concurrently with this course, requires a lab manual; check the bookstore.]
You actually have two options: you can get the full text just mentioned, OR you can buy just the volume that contains the chapters for this term only (i.e., chapters 5-8).

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. CH104, 105, and 106 must be taken in sequence. CH 105 expects concurrent enrollment in the lab course, CH 108.

Prerequisite: CH104, and two years of high school algebra (or Mth 95). Math skills tend to be the limiting factor for how well you do in chemistry.

Desire2Learn: This course will be supported by Desire2Learn (d2l), where you will be able to read/download course materials, see your grades, participate in on-line discussions, and generally enjoy all that this wonderful program has to offer. This is also how you will reach me by e-mail. Before you can begin, you'll need an ODIN account. The fine tech wizards at Smith Center basement can help you out. Also check out http://www.psuonline.pdx.edu/

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 d2l 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.

The CH108 Lab: The following sentence is the extent of my direct involvement with the labs: “IT IS IMPORTANT THAT YOU SHOW UP FOR YOUR FIRST LAB PERIOD; TAs can and will drop students who don’t show up the first week of labs when they have registered.” Please contact Eric Sheagley for lab information. [“Eric Sheagley" sheagley@gmail.com]

Grading: There will be four chapter quizzes (50 points each), a final (150 points, comprehensive, scantron), and your best 5 homework assignments (20 points each; not sure exactly how many will be assigned, but approximately one per week except for weeks that have quizzes).

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Midterms</td>
<td>200</td>
</tr>
<tr>
<td>Homework*</td>
<td>100</td>
</tr>
<tr>
<td>Final** (bring scantron, 882E)</td>
<td>150</td>
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<tr>
<td>Total</td>
<td>450</td>
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*Homework is online; see d2l homepage **Tuesday, 3/19/2013, 8-9:50 a.m.

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

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 get lenient at the lower end of the percentages – sometimes, for example, the C range drops to 69%.

Making up late/missed assignments: Missed exams can be made up by using the Testing Center
(testing@pdx.edu), which charges a $10 fee.

**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). If you need or wish to take your exams at the Testing Center, you MUST send me an e-mail with the salient information (your full name, when you are taking the test, which test you’re taking) so I can send the exam to the Testing Center with the appropriate proctoring form.

**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 105 schedule (Chapters 5-8).**

<table>
<thead>
<tr>
<th>Wk #</th>
<th>ChapterTopics</th>
<th>Comments</th>
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<tbody>
<tr>
<td>1-3</td>
<td>Ch 5: Carbohydrates</td>
<td>Now we REALLY start to learn some interesting functional groups, taught in the context of simple sugars. We also start to learn specific reactions.</td>
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<tr>
<td>4-5</td>
<td>Ch 6: Intermolecular forces</td>
<td>Many reactions (and most biochemical reactions) take place with reactants and products dissolved in water. You’ll find out why/how this is. All that work on learning about polar bonds and polar molecules becomes vital to understanding cell membranes.</td>
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<tr>
<td>6-7</td>
<td>Ch 7: Solution Chemistry</td>
<td>The classic “homogeneous mixture” is a solution, where a (typically) solid chemical is completely dissolved in a liquid. You’ll learn that coffee and tea are “hot aqueous extractions of soluble phytochemicals.”</td>
</tr>
<tr>
<td>8-10</td>
<td>Ch 8: Acids, Bases, and Buffers.</td>
<td>LOTS of great information here that is fundamental to understanding biochemistry and biological systems. Be forewarned, your teacher gets very testy and is easily aggrieved when students misspell “pH”, so pay attention when the time comes. The lower-case “p” actually means something…</td>
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**FINAL EXAM** Comprehensive This is the ONLY Scantron test, so please buy the 50-question, 882E (or equivalent) sheet from the bookstore. I’ll have a few available to sell at an exorbitant price on the day of the final.

**Final Comments Well Worth Having in Writing:**

1. **Expect** to have to learn material that is not in the textbook, as I intend to supplement the text with additional content.

2. **Monday, Jan 21, MLK Day.** Think of something worthwhile to do which honors Dr. King.

3. The calendar may be changed in response to institutional, weather (snow days, anyone??), or class problems.

4. Have d2l forward e-mails to an account that you check regularly, so you don’t miss important class announcements and due dates.

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.*