Chemistry 223 Spring 2013

Instructor: Dr. Eric Sheagley
Office: SRTC Room 316, Room 316
Email: sheagley@pdx.edu (this should be the primary means of contact). Also, D2L has a Discussion List feature that allows communication with your classmates. I will be making a point to regularly check the Discussion Board.

Office Hours: Monday 11:00-12:00, Wednesday 2:00-3:00 and Tuesday, Thursday 4:00-5:00 (due to time constraints, office hours will have to end promptly at the listed times).


Exams: There will be two one-hour midterms (100 pts each), three short quizzes (20 pts each), 5 online pre-chapter quizzes (5 pts each), and a two-hour final (180 pts) (see schedule). The final exam will be cumulative. The material to be covered during each exam is shown on the schedule.

Participation: Aside from that assessments listed above, there are an additional 60 points you can earn toward your overall score. These points are earned through answering clicker questions in class and completing either the Sapling Learning problem sets or the chemistry workshop, CH285. Thirty points can be earned through the clicker questions and an additional 30 points can be earned through Sapling or CH285.

Clicker Questions: In-class points will be awarded for answering clicker questions. 1.0 points will be awarded for a correct response; 0.9 points will be earned for an incorrect answer. Earning 80% of the total available points from the clicker questions will confer full credit for participation (30 points). There will be no makeup offered on the clicker questions, hence the 80%. If you miss a day or forget your clicker, just make sure you make up for it during the next lecture. In my lecture, I will support the iClicker 1, the iClicker 2 and the iClicker Go application. You can register your choice in the course D2L page in the “Clickers” folder that is listed in Course Content section.

Sapling or CH285: If you are enrolled in and successfully complete the chemistry workshop, you will be given 30 points toward your grade. If you are not enrolled in CH285, you can earn 30 points through SaplingLearning.com, an online homework system. Assignments on Sapling will be assigned for each chapter that we cover in the book; the assignment deadlines are listed on the below schedule. Deadlines for these assignments WILL NOT BE EXTENDED – NO EXCEPTION WILL BE MADE! If you miss a deadline, you will receive a score of zero for the assignment. Your overall homework score will be based upon a 30 point maximum. You will receive maximum credit if you score at least 80% of the overall total available points. If you earn less than 80% your score will be prorated appropriately. You will have access to each assignment one week before the due date. The deadlines for the assignment will be in the evening at 11:00 PM. See below for information about setting up an account on SaplingLearning.com.
Homework: In addition to Sapling or CH285, it is strongly encouraged for you to work on the problems in your text. These will not be graded. Some quiz and midterm problems may be modeled 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. Waiting until just before a test to work problems rarely results in success.

Quizzes: On selected dates, there will be three 20 point quizzes given at the end of class (see schedule). These quizzes are given during the last 15 minutes of class. The 20 point quizzes are designed to make sure you are keeping up with the materials covered in class.

At the beginning of five selected chapters, there will be a pre-quiz (worth 5 points each) due 15 minutes before class on the assigned day. Pre- quizzes can be accessed on D2L and are designed to get you to open the book and read ahead and their due date coincides with the first day that we begin covering the material.

THERE WILL BE NO MAKE-UP QUIZZES OR PRE-QUIZZES. Your lowest quiz and pre-chapter quiz will be dropped.

Grading: There will be a total of 500 points possible for this class (60 points for homework, 60 points for quizzes, including pre-chapter quizzes, 200 points for the midterms and 180 points for the final). Your grade will be assigned based on the percentage of total points scored in the class approximating the following scale (Note: this scale most likely will change based on class performance):

<table>
<thead>
<tr>
<th>Grade Score</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
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</thead>
<tbody>
<tr>
<td>≥ 90%</td>
<td>≥ 80%</td>
<td>≥ 65%</td>
<td>≥ 55%</td>
<td>&lt; 55%</td>
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Success: Success in this class comes from within. I do not give you a grade, you earn the grade. Before beginning this class, decide what you hope to accomplish in this class. Actively participate in the class. The homework, Workshop or MasteringChemistry, is by no means enough practice to develop the skills necessary to succeed in this class. It is necessary to challenge yourself with as many problems as you can from many resources. Ask for help, use your classmates, use blackboard, use the Chem Commons, use my office hours. Make every attempt to be an active learner because chemistry does not just come to the vast majority, most have to work to understand it. Finally, make sure you are doing everything you can to figure out what works for you by reflecting on how you learn the material.

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. Mistakes are sometimes made while grading exams; the good news is that they are usually addition errors, which I will happily fix. Exam scores have a margin of error. If you believe there has been a serious mistake on grading your exam, you may ask me, IN WRITING, to regrade exam up to one week after the exam is returned. If you turn in an exam to be re-graded, I reserve the right to re-grade the entire exam and may assign a score either higher or lower than the original score.

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.

Sapling Learning: You can purchase Sapling Learning at www.saplinglearning.com or purchase access cards at the PSU bookstore. There is a 14 day grace period with Sapling Learning, so you can log in, create an account and start doing homework prior to purchase. There is the choice to purchase a single quarter access for $19.99 or three term access for a discount.

To Access Sapling:
1. Go to http://saplinglearning.com and click on your country at the top right.
2a. If you already have a Sapling Learning account, log in and skip to step 3.
2b. If you have a Facebook account, you can use it to quickly create a Sapling Learning account. Click “Create an Account”, then “Create my account through Facebook”. You will be prompted to log into Facebook if you aren't already. Choose a username and password, then click “Link Account”. You can then skip to step 3.
2c. Otherwise, click "Create an Account". Supply the requested information and click "Create My Account". Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.
3. Find your course in the list (you may need to expand the subject and term categories) and click the link.
4. If your course requires a key code, you will be prompted to enter it.
5. If your course requires payment, select a payment option and following the remaining instructions.

Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments.

During sign up or throughout the term, if you have any technical problems or grading issues, send an email to support@saplinglearning.com explaining the issue. The Sapling Learning support team is almost always faster and better able to resolve issues than your instructor.

Registering your iClicker:
1. Go to http://www1.iclicker.com/register-an-iclicker/
2. When asked for student ID, input your ODIN Username (not your 9 digit student ID)
Chemistry 223 Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activity</th>
<th>Unit</th>
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<tbody>
<tr>
<td>1</td>
<td>Prequiz Ch15 (4/3)</td>
<td>Ch 15 Acids and Bases</td>
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<td>Prequiz Ch16 (4/10)</td>
<td>Ch 15, Ch 16 Aqueous Ionic Equilibrium</td>
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<td></td>
<td>Quiz Ch 15 (4/10)</td>
<td>Ch 15, Ch 16 Aqueous Ionic Equilibrium</td>
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<td></td>
<td>SAPLING CH15 (4/13)</td>
<td>Ch 15, Ch 16 Aqueous Ionic Equilibrium</td>
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<td>2</td>
<td>Midterm 1 Ch 15, 16 (4/24)</td>
<td>Ch 16</td>
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<td>SAPLING CH16a (4/24)</td>
<td>Ch 16</td>
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<td>3</td>
<td>Prequiz CH17 (5/1)</td>
<td>Ch 16</td>
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<td>4</td>
<td>Quiz Ch 16 (5/6)</td>
<td>Ch 17 Free Energy and Thermodynamics</td>
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<td>SAPLING CH16b (5/8)</td>
<td>Ch 17 Free Energy and Thermodynamics</td>
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<tr>
<td>5</td>
<td>Prequiz CH18 (5/13)</td>
<td>Ch 17, Ch 18 Electrochemistry</td>
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<td>Midterm 2 Ch 16, 17 (5/15)</td>
<td>Ch 17, Ch 18 Electrochemistry</td>
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<tr>
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<td>SAPLING CH 17 (5/15)</td>
<td>Ch 17, Ch 18 Electrochemistry</td>
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<tr>
<td>6</td>
<td>Quiz Ch 18 (5/29)</td>
<td>Ch18, Ch 19 Radioactivity and Nuclear Chemistry</td>
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<td></td>
<td>Prequiz Ch19 (5/29)</td>
<td>Ch18, Ch 19 Radioactivity and Nuclear Chemistry</td>
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<td>SAPLING CH 18 (5/29)</td>
<td>Ch18, Ch 19 Radioactivity and Nuclear Chemistry</td>
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<tr>
<td>7</td>
<td>SAPLING CH 19 (6/8)</td>
<td>Ch 19</td>
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Final Exam, Tu., June 10 at 5:30

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.

Where can I get chemistry help

CHEMISTRY DEPARTMENT TUTOR ROOM SCHEDULE IN SB1 ROOM 221
- MON-THURS 10am-6pm;
- FRI 11-2

CHEMISTRY TUTORING IN SMSU 439: Schedule is here: http://www.pdx.edu/tutoring/tutoring-schedule

MY OFFICE HOURS (see above for schedule)

YOUR PEERS: The D2L discussion board works. Use it. START A STUDY GROUP
Text Homework:
These will not be graded. 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.** Waiting until just before a test to work problems rarely results in success.

Please note: The following list of problems was determined using the second edition of the text book. This subset of problems was chosen based upon the content covered in lecture. Some topics are not covered in lecture; therefore, there is no expectation that you master those topics.

For each chapter you should complete “Examples”, “For practice” and “For More Practice” problems

Chapter 15 End of Chapter Problems: 3-6, 9-12, 14, 15, 21, 23, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 99, 101, 103, 105, 107, 109, 111, 113, 117, 119, 121, 123, 127, 129, 131, 133,


Chapter 19 End of Chapter Problems: 3-9, 15, 18, 20, 21, 24, 25, 30, 33, 35, 37, 39, 43, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 75, 79, 81, 83, 85