Chemistry 222 Winter 2012

Instructor: Dr. Eric Sheagley

Office: Science Building II, 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 10:30 - 12:00 and Tuesday, Thursday 4:00 – 5:00


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.

Homework: Two different types of homework will be assigned:

First, Practice Problems: there will be problem assignments out of the book. 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.

Second, Scored Homework: There are two options for receiving the 60 homework points available towards your overall grade. You can receive the homework credit by participating in the chemistry workshop or doing the online homework through MasteringChemistry.

MasteringChemistry assignments will be assigned most weeks. Directions for accessing MasteringChemistry are available on my blackboard site. **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 60 point maximum. You will receive maximum credit if you score at least 75% of the overall total available points. 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.

Quizzes: There will be three 20 point quizzes given at the end of class (see schedule). **THERE WILL BE NO MAKE-UP QUIZZES.** At the beginning of each chapter there will be a pre-quiz due at the beginning of class the first day that we begin covering the material. It will either be an online quiz (available on D2L). **THERE WILL BE NO MAKE-UP PRE-QUIZZES.** Your lowest quiz and pre-chapter quiz will be dropped.

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 Blackboard page. *I strongly encourage you to enroll in workshops.*
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 may change based on class performance):

<table>
<thead>
<tr>
<th>Grade</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>≥ 90% ≤ 80% ≤ 65% ≥ 55% &lt; 55%</td>
<td></td>
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<td></td>
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</tbody>
</table>

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.
### Chemistry 222 Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activity</th>
<th>Chapter</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>01/10</td>
<td></td>
<td>6</td>
<td>Introduction / Energy / Calorimetry / Enthalpy</td>
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<td>01/12</td>
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<tr>
<td>01/17</td>
<td></td>
<td>6 / 5</td>
<td>Thermochem / Hess's Law / Gases</td>
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<tr>
<td>01/19</td>
<td>Pre Quiz Ch 5 / Quiz Ch 6 / MC Ch 6 Fri (1/20)</td>
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<tr>
<td>01/24</td>
<td>MC Ch 5 Fri (1/27)</td>
<td>5</td>
<td>Gas Laws / Dalton’s Law / Kinetic Molecular Theory</td>
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<tr>
<td>01/31</td>
<td>Exam 1 Ch 5-6</td>
<td>11</td>
<td>Liquids/Phase Changes</td>
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<tr>
<td>02/02</td>
<td>Pre Quiz Ch 11</td>
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<tr>
<td>02/07</td>
<td></td>
<td>11 / 12</td>
<td>Intermolecular Forces / Props of Solids / Solutions</td>
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<td>02/09</td>
<td>Pre Quiz Ch 12 / Quiz 2 Ch 11</td>
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<tr>
<td>02/14</td>
<td>MC Ch 11</td>
<td>12</td>
<td>Concentration / Solubility / Colligative Properties</td>
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<td>02/16</td>
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<tr>
<td>02/21</td>
<td>Pre Quiz Ch 13, MC Ch 12</td>
<td>13</td>
<td>Kinetics</td>
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<tr>
<td>02/23</td>
<td>Exam 2 Ch 11-12</td>
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<tr>
<td>02/28</td>
<td></td>
<td>13</td>
<td>Kinetics</td>
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<td>03/01</td>
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<tr>
<td>03/06</td>
<td>Quiz 3 Ch 13 / Pre Quiz Ch 14 / MC Ch 13</td>
<td>14</td>
<td>Equilibrium</td>
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<td>03/08</td>
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<tr>
<td>03/13</td>
<td></td>
<td>14</td>
<td>Equilibrium</td>
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<tr>
<td>03/15</td>
<td>MC Ch 14 Fri (3/16)</td>
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<tr>
<td></td>
<td>Final Exam</td>
<td>Chap 5,6,11-14</td>
<td>Tues., March 20 1730-1920</td>
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**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: The schedule is forthcoming (usually daily)
Suggested End of Chapter Problems
Please do not let this be the only thing you do to prepare for class. This list should direct you in your studies. If you are having troubles with a particular problem please seek some assistance.

Chapter 6: Review questions and 31, 37, 39, 45, 47, 49, 55, 57, 59, 63, 65, 69, 71, 73, 77, 79, 83, 89, 91, 93, 97, 101, 103, 107, 111, 115, 117


Chapter 11: Review questions and 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 77, 81, 83, 85, 89, 91, 119, 121, 123, 141, 147

Chapter 12: Review questions and 29, 31, 33, 35, 37, 41, 43, 45, 49, 51, 53, 55, 57, 59, 65, 67, 69, 73, 75, 77, 79, 81, 85, 89, 93, 97, 103, 109, 115, 119, 125, 131


Chapter 14: Review questions and 21, 23, 26, 27, 29, 31, 35, 37, 39, 45, 47, 49, 51, 53, 55, 61, 63, 65, 67, 73, 77, 87, 91, 93, 97, 99, 101

Dear Student:
In this course you will be using MasteringChemistry™, an online tutorial and homework companion to your textbook.

What You Need:
- A valid email address
- A student access code (Comes in the Student Access Kit packaged with your new textbook. Otherwise, you can purchase access online at www.masteringchemistry.com.)
- The zip code for your school: 97207

☑ A Course ID: MCSHEAGLEY59623

Student Registration
- Click Register to register for MasteringChemistry with your student access code. (Don't have a new access code? You can purchase access by clicking Buy Now. Your purchase path will differ slightly from the registration instructions that follow.)
- Agree to the License Agreement and Privacy Policy by clicking the checkboxes.
- Leave “No, I am a New User” selected, then type in your Access Code in the fields provided. (Enter one “word” per box, without the dashes.)

- Enter your School Zip Code, select your Country and click Next.

- Enter your Name and Email and select Your School.

- Create a personal Login Name and Password, answer the Security Question and click Next.

Upon completion, the Confirmation & Summary page confirms your registration information. This information will also be emailed to you for your records.

**Enroll in Your Instructor’s Course and/or Access Self-Study Area**

If you receive a Course ID from your instructor, you will use this to “enroll” in your instructor’s MasteringChemistry online course so that you can be included in his or her gradebook. If you don’t receive a Course ID, you may still be able to access self-study resources.

- Go to www.masteringchemistry.com. If asked to identify your text, select the title and edition of your course textbook.

- Under Returning User?, enter the login name and password you created, then click Log In.

- Either enter your instructor’s MasteringChemistry Course ID or click Proceed to Self-Study Area (if an independent self-study option is available for your textbook). Your instructor may also request that you enter a special Student ID for this course, either now or later. If so, be sure to enter this information EXACTLY as your professor has instructed.

Congratulations! You have completed registration and have enrolled in your MasteringChemistry course. **To access your course from now on**: Simply go to www.masteringchemistry.com, select your textbook if prompted, and enter your login name and password.

**System Requirements & Support**

- To effectively use the resources on this website, check its system requirements:
  - Log in to www.masteringchemistry.com and click the “System requirements” link at the bottom of the home page. In particular, you may need to check that the latest version of the Flash player is available to your browser.

- Customer Technical Support: http://www.masteringsupport.com