

Chemistry 1151

Spring 2014

Dr. Stephanie Myers

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Course website: <http://spots.gru.edu/smyers1/Chemistry1151/Chemistry1151.htm>

Instructor website: <http://spots.gru.edu/smyers1/>

Website for experiments: <http://www.gru.edu/colleges/scimath/chemistryandphysics/labsite.php>

Office Hours: MWF 9:30 – 10 am; 12-12:30 pm

TR 11:30 am – 12:30 pm

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Prerequisites: MATH 1101 or MATH 1111, grade of C or better in each

Objectives: This class is an introduction to basic principles of chemistry. It is designed for students without a high school chemistry background. It is appropriate for pre-allied health majors, non-majors and students who need more background before taking CHEM 1211. Topics include: elements, compounds, stoichiometry, solutions, equilibrium, acids, bases and nomenclature.

Required Materials *General, Organic and Biological Chemistry: Structures of Life* by Karen Timberlake with access to the homework program *Mastering Chemistry*, a scientific, nonprogrammable calculator; and a pair of safety glasses or goggles are required.

Course Website: All materials for this class can be accessed from the course website. This is an open-access website, use the URL given at the top of the syllabus (**NOT** D2L!!). Homework and other course materials will be posted here. If you must go to another website (e.g., for labs or Mastering chemistry assignments.), there will be a link to that website. Also class announcements will be posted here. You are expected to check the website regularly (at least once between classes). You will not be responsible for any web updates that occur after 7 pm on a class day.

Attendance: You are expected to attend lecture and lab sessions regularly. If you miss a lecture session, it is your responsibility to find out what material was covered and what announcements were made. If you are absent from five lectures you will be dropped from the course. If you miss 3 labs **for any reason**, you will be withdrawn from the course. Missing an exam without a legitimate excuse is also grounds for withdrawal. This instructor will only withdraw a student after midterm (3/3) with the accompanying WF grade, regardless of when your absences occurred. Midterm is the last day that a student may withdraw from a course (for any reason) with a grade of W.

General Policies: Calculators cannot be shared; you are expected to have yours with you in **every** class and in lab. The student may use only a nonprogrammable scientific calculator, pencil and eraser during a quiz or exam. Clear your desk of all other items. If an error was made in grading an exam or quiz, the student has two class days after it was returned to the class to request a reevaluation in writing. It is the student's responsibility to pick up the exam (or quiz) if not present when it was returned.

Classroom Courtesy: Maintaining an orderly classroom is critical to ensuring an environment that is conducive to learning. Remember to turn off cell phones. Arrive on time and stay to the end of class. It is disruptive to the instructor and to your fellow students if you arrive late or leave early. Refrain from side conversations. Laptops may only be used in the last row of class (closest to the windows) and must be on mute. Any *device* (cell phones, computers, ipods, etc.) used in a way that is not directly related to class is cause for the instructor to dismiss the student from the class. Participation in disruptive behavior (particularly as described above) will not be tolerated and will be grounds for expulsion from the classroom, referral to the Dean of Students, and administrative withdrawal from the course with a grade of WF.

Homework/Quizzes: There will normally be two homework assignments or quizzes each week. These homework assignments might be posted on the course website under the “homework” section. These might be homework assignments using the Mastering Chemistry program, in which case an announcement of the posting and due date will appear on the course website. It may also be an in-class assignment. Quizzes may be announced or unannounced. Each homework or quiz will be worth 10 points. The lowest three grades will be dropped. The rest will be averaged and the average multiplied by 1.5 for the homework average. Some homework and quizzes may have an opportunity for extra credit.

Doing only graded homework will not be sufficient to do well in this course. You should also work problems from the textbook, probably more than once. This includes both end-of-the-chapter problems and in-chapter problems/examples (although these will not be graded).

Exams: There will be three in-class exams as well as a comprehensive final exam. Each exam will be worth 100 pts, but 105-110 will be available (extra credit!!) Your lowest exam grade will count 50% less in the overall percentages than the other two. (It’s score will be divided in half and added to the other two for the total 250 possible points.)

Laboratories: Lab is considered an integral part of this course, so absences from lab are also taken very seriously. You are expected to be on time, with a hard copy of the lab, pen, calculator and dressed appropriately. Appropriate dress includes: coverage from shoulders to ankles (top with sleeves and long pants preferred), close-toed shoes and safety glasses or goggles. If you miss 3 labs **for any reason**, you will be withdrawn from the course. Students who are not prepared for lab (wrong clothes, no lab handout, etc.) will not be permitted in lab and receive a zero for those experiments.

The lab experiments are posted on-line at the website: given at the top of the syllabus. Note that the labs are listed in alphabetical order, not the order in which they are conducted. Use the schedule to determine which experiment you will be doing each week.

Grading: Your grade will be based on the following:

Homework average (ave * 1.5, 3 drops)	150 pts
Exam Average (low test * 0.5 + other test scores)	250 pts
Lab average (lowest 2 dropped)	125 pts
<u>Final</u>	<u>200 pts</u>
Total	725 pts

Final grades will be based on percentage of possible points actually earned where: A = 90% or higher; B = 89-80%; C = 79-70%; D = 69-60% and F = 59% or less.

Extra Credit: Extra credit will be available on all exams, some homework and quizzes—although questions may not be identified as extra credit. No other extra credit will be available.

Make-ups: There will be NO MAKE-UP QUIZZES, HOMEWORK OR LABS. (Remember, there are drops.) If you are aware in advance that you will miss an exam, you must schedule a time to take it early. If unforeseen circumstances cause you to miss an exam, you must contact me as soon as is reasonably possible (normally the same day as the exam) and schedule a make-up, which must be taken as soon as possible (normally before the next class period). Terms of the make-up will be discussed during scheduling and documentation of the reason for your absence may be required. Expect make-ups to be more difficult than the in-class exam. An unexcused absence from the final will result in a course grade of F, regardless of course performance.

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Tentative Schedule

Week	Chapter	Lab
Jan 6-10	1	<i>No lab this week</i>
Jan 13-17	1,2	Measurements & Calculations
Jan 20	Holiday, no class	
Jan 22-24	2,3	Heat Transfer
Jan 27-31	3	Heating Curves
Feb 3-7	5	The Periodic Table
Feb 10-14	<i>Exam 1</i> 5	Nuclear Chemistry**
Feb 17-21	5,6	Molecular Models
Feb 24-28	6	<i>No lab this week</i>
March 3-7	<i>Midterm (no exam, just FYI)</i> 6	Symbols, Formulas and Molar Masses
March 10-14	8	Weight Relations in Chemical Changes
March 17-21	<i>Exam-2</i> 8	Chemical Reactions
March 24-28	8,7	Solutions & Colloids
Mar 31-Apr 4	7,9	Molar Volume of a Gas
Apr 7-11	Holiday, no class	<i>No lab this week</i>
April 14-18	9	Acid-Base Titration
April 21-28	<i>Exam-3</i> 9,10	<i>No lab this week</i>
May 1 10 am - noon	<i>Final</i>	