

## CHM2045 – General Chemistry – Spring 2014

Lectures: MWR 11<sup>th</sup> Period in CLB 130

Discussion sections: Fridays

**INSTRUCTOR:** Maria Korolev

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Office hours: Tuesdays 7<sup>th</sup>, 8<sup>th</sup> and Fridays 6<sup>th</sup> in Flint 251

**COURSE SCHEDULE** (lecture schedule is tentative, but **exam dates** will not change)

Dates	Topics (# of lectures)	Chapters
Jan 6 - 8	Introduction and Review: Atoms, Molecules, and Ions (2)	Chap. 1–2
Jan 9 - 16	Mass Relations and Stoichiometry (3-4)	Chap. 3
Jan 22 - 27	Aqueous Reactions (3-4)	Chap. 4
<b>Wednesday, Jan 29<sup>th</sup> (8:20-10:20 pm)</b>	<b>Progress Exam 1</b>	<b>Chaps. 1–4</b>
Jan 30 - Feb 3	Enthalpy & Calorimetry (2)	Chap. 6
Feb 5 - 6	Atomic Structure (2)	Chap. 7
Feb 10 - 17	Electron Configuration and Periodic Trends (4)	Chap. 8
Feb 19 - 24	Chemical Bonding Models (3)	Chap. 9
<b>Wednesday, Feb 26<sup>th</sup> (8:20-10:20 pm)</b>	<b>Progress Exam 2</b>	<b>Chaps. 1–4, 6–9</b>
Feb 27 - Mar 10	Molecular Geometry (2)	Chap. 10
Mar 12 - 17	Covalent Bonding Theories (3)	Chap. 11
Mar 19 - 24	Gases (3)	Chap. 5
Mar 26 - Apr 2	Intermolecular Forces and Liquids and Solids (3-4)	Chap. 12
<b>Thursday, Apr 3<sup>rd</sup> (8:20-10:20 pm)</b>	<b>Progress Exam 3</b>	<b>Chaps. 1–12</b>
Apr 7 - 14	Solutions (4)	Chap. 13
Apr 16 - 23	Chemical Kinetics (4)	Chap. 16
<b>Wednesday, Apr 30<sup>th</sup> (10:00am–12:00pm)</b>	<b>Final Exam</b>	<b>Cumulative</b>

**Holidays (no classes):** January 20<sup>th</sup>, March 3<sup>rd</sup> – 7<sup>th</sup>

**Online Assessments:** 1/14, 1/22, 1/28, 2/11, 2/18, 2/25, 3/18, 3/25, 4/1, 4/15, 4/22, 4/29

**COURSE INFO:** CHM 2045 and CHM 2045L constitute the first semester of the two term sequence of General Chemistry, CHM 2045-2045L-2046-2046L. Prerequisite information and credit suitability can be found in the Undergraduate Catalog.

**REQUIRED MATERIALS:**

Chemistry: The Molecular Nature of Matter and Change (6<sup>th</sup> Edition) by Martin Silberberg  
i>clicker response system – using any model i>clicker remote or i>clicker GO on your smartphone

**GRADES:** Grades for the term will be determined as follows:

Progress Exams (best 2 of 3 @ 250 pts)	500 pts
Clicker Points	80 pts
Online Assessments (best 10 of 12 @ 12 pts)	120 pts
Final Exam	300 pts
TOTAL	1000 pts

The following grade cutoffs will be used (these are non-negotiable):

900-1000 = A    860-899 = A-    830-859 = B+    800-829 = B    760-799 = B-  
730-759 = C+    700-729 = C    660-699 = C-    630-659 = D+    600-629 = D  
< 600 = E    (a grade of C or higher is required to take CHM2046; a C- does not count)

**E-LEARNING** (<http://lss.at.ufl.edu>): Here you will find the syllabus, the Discussion Section schedule, a link to the WebAssign homework site, your gradebook for the class, selected lecture material, videos, files, end-of-chapter problem solutions, class announcements, and other pertinent info for the course. It is your responsibility to check the Class Web Site often (as well as your gradebook) to make sure that you do not miss important announcements and other information and to ensure that your gradebook is accurate. If you change your GatorLink username during the semester, please inform me immediately – otherwise your WebAssign scores may not transfer accurately. If you have any problems with your GatorLink name or password, you should either go on-line <http://www.gatorlink.ufl.edu> , contact the Help Desk at 392-HELP, or go to 520 CSE for personal assistance. For other computer assistance, visit <http://helpdesk.ufl.edu/>.

**ASSIGNED HOMEWORK:** Homework will be assigned, but not graded for this course. Homework questions will be compiled from the Silberberg 6e textbook. Chemistry cannot be learned without doing many practice problems, so it is imperative that you do these problems. Doing them will be the best preparation for your quizzes and exams that will determine your grade.

**DISCUSSION CLASSES:** The Discussion Classes meet every week according to the schedule (see the Resources folder in Sakai). Your attendance is expected in your Discussion Class. You may go to additional Discussion Classes that you would like to attend, so long as space is available - should space become an issue, the TAs will have to take steps to ensure that assigned students get priority seating.

**ONLINE ASSESSMENT QUIZZES:** There will be twelve (12) online assessment quizzes given via the Sakai web site for this course. To access the assessment quizzes, click on "Assessments" in Sakai. The quizzes will be most Mondays unless told otherwise. The quizzes will be available during the 24-hour period that defines that particular day, you will have 1 hour to take them. No makeup quizzes will be given for any reason. Computer issues that may arise will not be negotiated. To accommodate unavoidable conflicts or computer issues that may arise, we offer a dropped-quiz policy (see under "GRADES" above). It is suggested that you do the assessments early enough in the day to avoid last-minute time or computer issues. If you must be absent for a quiz due to a documented and approved academic or UF athletic conflict, bring the documentation to your instructor beforehand (at least one week prior to the scheduled quiz). Planned or emergency trips home or elsewhere are not approved conflicts.

**CLICKERS:** The i>clicker response system will be used in class to engage participation from everyone and to provide feedback for me during the class. Each student's participation is valuable and therefore clicker use will be incorporated into the course grade. One point will be awarded for each clicker question for participation. Additionally, one point will be awarded on select questions for accuracy as "extra credit". Approximately 100 questions will be done over the course of the semester, but only 80 of the points will be necessary to receive full credit toward your grade. In order to receive credit for the clicker points, you will need to register your device online. It is your responsibility to check that you have registered your device properly, and that you are receiving points. I will update the gradebook periodically, so do not wait until the end of the course to check for issues. All students need to be registered by January 30<sup>th</sup>. Also, please note that clicker use falls under the academic honesty policy.

Instructions for the remote: You must have come to class at least once and voted on at least one question in order to complete this registration properly. Once you have voted on at least a question in this class, go to <http://www.iclicker.com/registration> and complete the fields with your information. Your student ID should be your GatorLinkID and the remote ID is the series of numbers/letters found on the back of your i>clicker remote.

Instructions for the webclicker: Create an account at <https://iclickergo.com/register/activatenow.aspx>. Enter the required information including your GatorLinkID. Type in zip code 32611, click Lookup, then select UF from the drop-down list. After registration, to use your clicker in class, log back in and choose your instructor then choose your course from the lists. CHM2045Korolev should be part of the name.

**CONTACTING THE INSTRUCTOR / OFFICE HOURS:** Emails are for administrative purposes only, and not for distance-instruction. Due to the large number of student emails, it is necessary that email queries about information already covered in the syllabus or announced in lecture or on the e-Learning site will be disregarded. If your email is unanswered, re-read the syllabus and/or the announcements posted in e-Learning. All academic inquiries must be made during office hours or before/after lectures (if time permits). If this is not possible, visit the CLC (see below). Please consult the online chapter solutions (if applicable) before coming to office hours.

**CHEMISTRY LEARNING CENTER (CLC):** There is free help to be had from graduate student teaching assistants in the CLC Monday through Friday in Flint Hall 257. Your discussion TA will have office hours in the CLC, but you may go there anytime any TA is assigned there to get help on questions pertaining to chemistry. A schedule of the TA schedules will be posted in the corridor outside the CLC and also on Sakai. Additionally, there is the **TEACHING CENTER** located on the ground floor of Broward Hall, if you'd like to use that resource. Their web site is <http://www.teachingcenter.ufl.edu>.

**EXAMS:** Exams will be taken in the evenings outside of class and the Exam Room Assignments will be posted. You must use a non-graphing non-programmable scientific calculator on exams (with log, ln, root, and exponent (scientific notation) functions). Be sure to also bring pencils, section number, and your UF ID card. No notes, papers, cell phones or other electronic devices can be in view during exams.

No makeup progress exams will be given for any reason. Since unavoidable emergent situations (illnesses, accidents, emergencies, etc.) do arise occasionally, we've incorporated a dropped-exam policy (the best 2 of 3 Progress Exams will be counted toward your grade - see under "GRADES" below). If you must be absent for an exam due to a documented and approved academic or UF athletic conflict, bring the documentation to your instructor beforehand (at least one week prior to the scheduled exam) and an early conflict exam will be scheduled. Planned or emergency trips home or elsewhere are not approved conflicts. For more information on CHM2045 exam policy, see [http://iteach.chem.ufl.edu/file.php/1/Exam\\_Absence\\_Policy\\_GChem\\_s13.pdf](http://iteach.chem.ufl.edu/file.php/1/Exam_Absence_Policy_GChem_s13.pdf)

Checking your Scantron: Out of the tens of thousands of exam scantrons that have been scored while I've been at UF, not one has been scored incorrectly. Any discrepancies have always been due to student bubbling error. However, scantrons may be checked during the two established instructor office hour sessions following the posting of the exam score in your Sakai gradebook. Scantron errors will not be negotiated, and a 9 point penalty will be applied for failure to bubble in a form code, UFID, or not taking the exam in the assigned room.

**HONOR CODE:** The [UF Student Honor Code](#) (ctrl+click to open link) applies to all exams and assessments given in this course. Please understand that absolutely no leniency will be extended in any case of academic dishonesty.

**DISABILITIES:** Students requesting classroom and exam accommodations should contact the Dean of Students Disability Resources Center (DRC) at <http://www.dso.ufl.edu/drc/> and obtain the proper forms that need to be turned in to me during the first week of class or as soon as possible after obtaining the paperwork from the DRC. It is the student's responsibility to schedule and arrange accommodations with the DRC. For other disability or related students-affairs info, see <http://www.chem.ufl.edu/~itl/disabilities.html>

**DISCLAIMER:** This syllabus represents my current plans and objectives. If those need to change as the semester progresses, then the changes will be communicated to the class clearly.