## CHM2045 - General Chemistry - Fall 2017

**INSTRUCTOR**: Dr. Maria Korolev

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Office hours: Mondays, Wednesdays, and Fridays periods 6 & 7 in Keene-Flint 251

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

Dates	Topics (# of lectures)	Silberberg Chapters
Aug 21 – 25	Introduction and Review (3)	Chap. 1–2
Aug 28 – Sep 6	Mass Relations and Stoichiometry (4)	Chap. 3
Sep 8 – 18	Aqueous Reactions (5)	Chap. 4
Wednesday, Sep 20 <sup>th</sup> (8:20–10:20 pm)	Progress Exam 1	Cumulative
Sep 22 – 27	Gases (3)	Chap. 5
Sep 29 – Oct 4	Enthalpy & Calorimetry (3)	Chap. 6
Oct 9	The Nature of Light (1)	Chap. 7
Oct 11 – 16	Chemical Kinetics (3)	Chap. 16
Tuesday, Oct 17 <sup>th</sup> (8:20–10:20 pm)	Progress Exam 2	Cumulative
Oct 18	Quantum Mechanical Model (1)	Chap. 7
Oct 20 – 25	Electron Configuration and Periodic Trends (3)	Chap. 8
Oct 27 – 30	Chemical Bonding Models (2)	Chap. 9
Nov 1-8	Molecular Geometry (4)	Chap. 10
Nov 13 – 15	Covalent Bonding Theories (2)	Chap. 11
Thursday, Nov 16 <sup>th</sup> (8:20–10:20 pm)	Progress Exam 3	Cumulative
Nov 17 – 29	Intermolecular Forces, Liquids and Solids (4)	Chap. 12
Dec 1 – 6	Solutions (3)	Chap. 13
Saturday, Dec 9 <sup>th</sup> (3:00-5:00 pm)	Final Exam	Cumulative

<sup>\*</sup>The topics that will be covered from each chapter will be selective and announced in class.

Holidays (no classes): Sep  $4^{th}$ , Oct  $6^{th}$ , Nov  $10^{th}$ , Nov  $22^{nd}$  -  $24^{th}$ 

**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. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <a href="https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx">https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx</a>

## **REQUIRED MATERIALS:**

<u>TopHat Subscription</u> for in-class clicker questions

Any College Chemistry Textbook (such as Silberberg or Tro) for course material

**COURSE OBJECTIVES:** As both a general education requirement and major's course, CHM2045 serves to teach: the scientific method, skills for problem solving, general chemistry knowledge, and a connection to the principles that govern the natural world.

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

3 Progress Exams	60%
Final Cumulative Exam	25%
Online Homework	10%
Clickers/Worksheets	5%
TOTAL	100%

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

90.0%-100% = A 86.0%-89.9% = A- 83.0%-85.9% = B+ 80.0%-82.9% = B 76.0%-79.9% = B- 73.0%-75.9% = C+ 70.0%-72.9% = C 66.0%-69.9% = D+ 63.0%-65.9% = D 60.0%-62.9% = D- < 60.0% = E

Information on current UF grading policies for assigning grade points can be found at: <a href="https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx">https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx</a>

ONLINE HOMEWORK: Ten percent of the course grade will be based on online homework assignments through Canvas. Each assignment has a displayed deadline. Failure to at least access a homework assignment before its due date will result in the loss of ability to access that homework for the remainder of the semester. Students that miss a homework deadline due to an excused absence can request an extension by contacting the instructor. You will have multiple attempts to successfully answer the homework assignments. The lowest three homework grades will be dropped at the end of the semester.

CLICKERS AND WORKSHEETS: Five percent of the course grade will be based on performance on in-class clicker questions and in-discussion worksheets. You can earn points in class by correctly answering clicker questions through TopHat. The first question of the day will be worth half of the day's credit and will be based on the pre-class assignment for that day. You can also earn points by completing worksheets in the discussion sections; points for worksheets are solely participation based and will be equivalent to a lecture clicker grade. The lowest nine clicker or worksheet grades will be dropped at the end of the semester.

**DISCUSSION CLASSES:** The Discussion Classes meet every week and your attendance is expected. Your discussion sections will contain weekly worksheets that will count toward your overall grade. Each of these worksheets is equivalent to a lecture clicker grade. You must go to your assigned discussion section to receive credit for the worksheet. If you are more than 5 minutes late, then you will not receive credit. Students who have an excused absence can do the worksheet and show their work as well as the documented excuse to the TA the following week to receive credit.

**CONTACTING THE INSTRUCTOR / OFFICE HOURS:** Emails are for administrative purposes only, and not for distance-instruction. 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 be prepared before coming to office hours, bring specific questions and your previous work. Questions about grades will not be discussed during office hours due to privacy regulations.

CHEMISTRY LEARNING CENTER (CLC): There is <u>free help</u> to be had from graduate student teaching assistants in the CLC Monday through Friday in Joseph Hernandez Hall 105. 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 CLC and also online. 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 <a href="http://www.teachingcenter.ufl.edu">http://www.teachingcenter.ufl.edu</a>.

**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 ("do over") progress exams will be given for any reason. 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 at least *one week prior* to the scheduled exam and an early conflict exam will be scheduled for you. If you are absent for an exam due to an unpredicted documented medical reason, you must contact the instructor as soon as possible. More information regarding this policy can be found in the *General Chemistry Exam Absence Policy* document found on Canvas.

To alleviate the stress of potential issues that do not fall under officially-sanctioned absences, we've incorporated an "average/replace" policy (the lowest of the three progress exams will be replaced by the average of the three progress exams). This "average/replace" policy will help to minimize the impact of a single poor performance but it will not completely disappear.

Any and all exam grade disputes or Scantron confirmations must be performed within two weeks of the scheduled exam date. Bubbling errors will not be negotiated, and a 5 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:** UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the

University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<a href="https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx">https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx</a>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

**CANVAS** (<a href="http://elearning.ufl.edu">http://elearning.ufl.edu</a>): Here you will find the syllabus, gradebook, files, class announcements, and other pertinent info for the course. It is your responsibility to check Canvas often to make sure that you do not miss important announcements and to ensure that your gradebook is accurate. For computer assistance, visit <a href="http://helpdesk.ufl.edu/">http://helpdesk.ufl.edu/</a>.

**CLASS DEMEANOR:** In order to have an optimal learning environment, the classroom needs to be free of disruptions. Therefore, it is expected that students come to class on time and leave only when class is concluded by the instructor, and that the class is not disrupted by student talking or cell phone noises.

**DISABILITIES:** Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <a href="http://www.dso.ufl.edu/drc/">http://www.dso.ufl.edu/drc/</a>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. The student is responsible for scheduling the exam dates with the DRC. Students with disabilities should follow this procedure as early as possible.

**U MATTER**, **WE CARE**: Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact <a href="mailto:umatter@ufl.edu">umatter@ufl.edu</a> so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

**EVALUATIONS:** Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <a href="https://evaluations.ufl.edu">https://evaluations.ufl.edu</a>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <a href="https://evaluations.ufl.edu/results/">https://evaluations.ufl.edu/results/</a>.

**GENERAL EDUCATION REQUIREMENTS:** This course satisfies the general education program requirements for the physical sciences at the University of Florida. More information regarding the program objectives, student learning outcomes, and specific goals for CHM2045/CHM2046 can be found in the *General Education Program Requirements* document found on Canvas.

**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.