

CHM2045L – General Chemistry 1 Laboratory – Spring 2018

Instructor: Dr. Maria Korolev

Email (for administrative purposes): korolev@ufl.edu

Office hours: MWF periods 7 & 8 and TR period 8 in Keene-Flint 251/258

Teaching Assistant: Kendall Craig (email: kc.craig@chem.ufl.edu)

Lab Managers: Donna Turner and Candace Biggerstaff (located in the stockroom of JHH 110)

Course Objectives: The general objectives of this course are to introduce you to common laboratory techniques and equipment used in a laboratory, to help you gain understanding and proficiency in their use, to help you explore the process of doing experimental chemistry, and to illustrate representative examples of the useful and important topics you are learning in CHM2095 lectures.

Course Information: CHM2045L meets weekly in JHH110. The sections of CHM2045L taught by Dr. Korolev are specific sections targeted to students who are engineering majors. These sections of CHM2045L contain three-week long laboratory projects that apply chemistry principles to engineering problems. 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:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Required Materials: Approved safety goggles. Information about these can be found on Canvas.

*****Lab begins on January 22nd. You must wear approved safety goggles and proper lab attire. *****

Course Schedule:

Date	Content
January 22 nd	Check-in & Introduction
January 29 th	DC0: Restore and Improve Urban Infrastructure
February 5 th	DC1: Provide Access to Clean Water – Design Phase
February 12 th	DC1: Provide Access to Clean Water – Conduct Phase
February 19 th	DC1: Provide Access to Clean Water – Analyze Phase
February 26 th	DC2: Make Solar Energy Economical – Design Phase
March 12 th	DC2: Make Solar Energy Economical – Conduct Phase
March 19 th	DC2: Make Solar Energy Economical – Analyze Phase
March 26 th	DC3: Develop Carbon Sequestration Methods – Design Phase
April 2 nd	DC3: Develop Carbon Sequestration Methods – Conduct Phase
April 9 th	DC3: Develop Carbon Sequestration Methods – Analyze Phase
April 16 th	Make-up Labs
TBD*	Written Lab Quiz

*The written lab quiz will be given during an evening assembly exam time (on or about April 23rd)

Grading:

Grades for the term will be determined as follows:

Category:	Lab Notebooks	Pre-Lab Quizzes	Written Lab Quiz	Surveys
Weight:	50%	20%	20%	10%

The following grade cutoffs will be used:

A	A-	B+	B	B-	C+	C	D+	D	D-	E
90%	86%	83%	80%	76%	73%	70%	66%	63%	60%	<60%

Information on current UF grading policies for assigning grade points can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Lab Notebook: During lab meeting time, students will work in teams on the lab assignment for that day. Teams will complete a lab notebook that will be uploaded and graded through Canvas. Students who have an unexcused absence will receive a zero for the day's notebook assignment. Students who miss significant lab time will be deducted points on their lab notebook that day.

Pre-Lab Quizzes: These quizzes will be delivered online through Canvas and will have a posted deadline prior to the lab meeting time. The lowest pre-lab quiz grade will be dropped at the end of the semester.

Written Lab Quiz: This written quiz will be scheduled at night like a typical assembly exam. It will assess the graphical and analytical skills that were taught and used throughout the semester. Students who have a conflict with the scheduled quiz time must contact the instructor at least 1 week in advance.

Surveys: The lab activities in Korolev sections of CHM2045L are part of an initiative to improve this section of general chemistry lab, and are tied to a research grant. Due to this, you will need to complete a consent form as well as respond to pre- and post-semester surveys. Your compliance with the surveys will be worth points that contribute to your overall lab grade.

Attendance: Attendance in the general chemistry laboratory is critical for this course. Your TA will take careful attendance each period while circulating the lab during the lab period. You must sign your name on the attendance sheet during each lab period – this is your responsibility. The signed attendance sheet is the official attendance record, not your individual notebook.

Proper attire: Students must wear approved safety goggles and proper attire (see Canvas for more info). Any students who do not bring their safety goggles or wear proper attire will be sent back to change.

Absences: Students who miss lab due to a valid, documented circumstance can request a make-up within 7 days of their excused absence. Circumstances must be verified by the Dean of Students Office which will inform the instructor confidentially that the student had a health or family emergency. The excused absence will be rescheduled for the student during the make-up week at the end of the semester. Any student who has missed three or more lab sessions (excluding religious observances), whether excused or unexcused, will receive a grade of E in the course.

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 (<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>) 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 (<http://elearning.ufl.edu>): 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 <http://helpdesk.ufl.edu/>.

Disability Accommodations: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <http://www.dso.ufl.edu/drc/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodations for quizzes or exams.

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 umatter@ufl.edu 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 <https://evaluations.ufl.edu>. 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 <https://evaluations.ufl.edu/results/>.

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.