

Lectures	MWF 9:35AM – 10:25AM (Period 3) in CLB C130		
Instructors	Leslie J. Murray, CLB 410B	Adam S. Veige, CLB 412B	
Email:	murray@chem.ufl.edu	veige@chem.ufl.edu	
Office hours:	MWF period 4	MWF period 4	
Sections	02F1, 02F2, 02F3, 02F4, 02FH, 02G3, 0713, 0715, and 0717		
Teaching Assts.	Grit Kupgan (gt2199@ufl.edu), Juan Torres Gonzalez (jtorresgonzalez@chem.ufl.edu), Jhonti Chakraborty (jchakraborty@chem.ufl.edu)		
Discussions	Tuesday classes corresponding to section numbers above meet with a Teaching Assistant (TA) and will start on January 9 .		
Course Objective	To introduce general chemistry concepts and problem solving skills and their relationship to advanced topics in science and engineering.		
Textbook	1. The Molecular Nature of Matter and Change (8th edition), by Martin Silberberg, McGraw Hill 2. Any other edition of the Silberberg book, also available as a Smartbook		
Disclaimer	The instructors reserve the right to make changes or corrections to this syllabus at any time. Students will be notified when any change is made by an announcement on Canvas.		
Homework	Students are strongly advised to do the problems found at the end of the chapters, although these problems will not be graded.		
Exams & Quizzes	<p>Three (3) announced quizzes will be administered during the Tuesday discussion periods. Each quiz will be worth 50 points. You must take quizzes with your respective TA <u>only</u> and during the discussion period for which you are registered. Quizzes can cover content from prior lectures.</p> <p>Three (3) in-semester exams will be administered during periods E2 and E3 (8:20-10:10PM) on the dates below and each worth 200 points. All exams including in-semester are cumulative (<i>i.e.</i>, cover all prior lectures and associated content in the textbook). Room assignments will be posted on Canvas prior to each exam. The in-semester exam with the lowest score will be halved, <i>e.g.</i>, if your three scores are 100, 180, and 160, then they will contribute $180+160+(100/2) = 390$ out of a possible 500 points ($200 + 200 + 200/2$).</p> <p>Things you will need for quizzes and exams:</p> <ul style="list-style-type: none"> (i) A non-graphing, non-programmable, scientific calculator (ii) Pencil(s) (iii) Your section number (iv) UFID card (<i>i.e.</i>, Gator1 card) <p>The use of electronic devices (including phones, computers, and tablets), notes, and the textbook during a quiz or exam are strictly prohibited. Use of non-permitted items will result in zero points awarded for that quiz or exam without exception.</p>		
Important Dates	Event	Date	Time
	Quiz #1	Tuesday, February 6	@ registered discussion section
	Quiz #2	Tuesday, March 20	@ registered discussion section
	Quiz #3	Tuesday, April 17	@ registered discussion section
	Exam #1	Wednesday, January 31	8:20PM – 10:10PM
	Exam #2	Wednesday, February 28	8:20PM – 10:10PM
	Exam #3	Monday, April 9	8:20PM – 10:10PM
	Final Exam	Monday, April 30	3:00-5:00PM

Make-up Exams & Quizzes	<p>To receive a make-up quiz or exam, the student must notify the instructor and provide appropriate documentation at least one week in advance for predetermined absences (e.g., official university activity) or prior to the start of the class to be missed for unplanned absences (e.g., sickness). Failure to notify instructors in the stipulated timeframe will forfeit the student's access to a make-up quiz/exam. Make-up quizzes and exams will be administered only if absence from the scheduled date satisfies the criteria outlined in the "Attendance and Absence Policy" section (<i>vide infra</i>) and must be accompanied by appropriate documentation. In rare cases, the instructor can be notified of an absence after the missed quiz/exam, but prior notification must have been considered an unreasonable expectation or burden (e.g., emergency hospitalization, sudden death in family). The instructor should then be notified as soon as possible and the appropriate documentation provided. <i>Advice: Medical personnel only provide documentation if they actually examine you when you are ill.</i></p>										
Regrade Or Score Change Requests	<p>All queries regarding exam, quiz, or other scores must be made within one week after the score has been posted to Canvas without exception. After this one-week period, scores will be considered final. Concerns regarding points awarded should first be addressed to your TA. The TA will notify the instructor(s) and the student's course record will be amended if the student's concerns are valid. If the student is dissatisfied with the TA's response (e.g., the TA does not agree that more points should have been awarded), the student may request a regrade of the exam by the instructor. In this scenario, the entire exam will be regraded and not only a specific question; that is, the points awarded on questions unrelated to the student concerns can also change. Submitting an exam or quiz for a regrade is the your consent to accept the score awarded from the regraded exam as the score of record <u>even if it is lower than the initially awarded score.</u></p>										
Canvas	<p>UF's elearning platform, Canvas, can be found at http://elearning.ufl.edu. You will find the syllabus, gradebook, files, class announcements, and other pertinent info for the course. Check Canvas often to ensure that you do not miss important announcements and that your gradebook is accurate.</p>										
In-class Questions & Discussion Worksheets	<p>You can earn points in class by correctly answering questions through Top Hat and your percentage of correct answers will determine your points. You can also earn points by completing worksheets (about 11 worksheets per semester) in the discussion sections (3 points per worksheet). There are more than 50 available points, but you are capped at 50 points through these combined scores. No make-up will be provided for Top Hat or Discussion worksheets.</p>										
Discussion	<p>The discussion classes meet every Tuesday and will contain weekly worksheets that will count toward your overall grade. You must go to your assigned discussion section to receive credit for the worksheet. The worksheet will be posted to Canvas (http://elearning.ufl.edu) on Monday afternoon (the day before discussion). You may start working on it before you come to discussion. Form groups of 2 to 3 students and work on it together. Any grade discrepancy needs to be addressed within a week of posting grades to canvas. If you missed a discussion section and show your completed worksheet to your TA the following week you will receive half credit. Any worksheet that is later than a week is worth no points.</p>										
Grades	<p>Grades will be based on a total of 1000 points with the following division:</p> <table data-bbox="568 1659 1429 1837"> <tr> <td>In-semester exams:</td> <td>500 points (two best scores & ½ of lowest)</td> </tr> <tr> <td>Quizzes:</td> <td>150 points (3 x 50 points)</td> </tr> <tr> <td>Top Hat/Worksheets:</td> <td>50 points</td> </tr> <tr> <td>Final Exam:</td> <td>300 points</td> </tr> <tr> <td>Total:</td> <td><u>1000 points</u></td> </tr> </table> <p>For information on UF's Grading Policy, see: https://registrar.ufl.edu/grades/gradepolicy.html and https://student.ufl.edu/minusgrades.html</p>	In-semester exams:	500 points (two best scores & ½ of lowest)	Quizzes:	150 points (3 x 50 points)	Top Hat/Worksheets:	50 points	Final Exam:	300 points	Total:	<u>1000 points</u>
In-semester exams:	500 points (two best scores & ½ of lowest)										
Quizzes:	150 points (3 x 50 points)										
Top Hat/Worksheets:	50 points										
Final Exam:	300 points										
Total:	<u>1000 points</u>										

Grades (cont'd) Course grades will be assigned with the following percentages used for guidance:

90-100% = A	83-85.9% = B+	73-75.9% = C+	63-65.9% = D+	< 50 = E
86-89.9% = A-	80-82.9% = B	70-72.9% = C	60-65.9% = D	
	76-79.9% = B-	69.9-66% = C-	50-55.9% = D-	

Attendance & Absence Policy

Attendance is mandatory for exams and quizzes. Acceptable reasons for absence from class include illness*, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligation, severe weather conditions, religious holidays, court-imposed legal obligations (e.g., jury duty or subpoena), and participation in official university activities such as music performances, athletic competition, or debate.

*The university's policy on appropriate documentation of absence due to illness can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx> and <http://shcc.ufl.edu/forms-records/excuse-notes/>

Chemistry Learning Center

The CLC, located in 105 Joseph Hernandez Hall, is a study facility available to all chemistry students. You may work here whenever the building is open, generally up to 8pm on weekdays. Please be quiet, and ask others to be so also, when you are in this room. Eating and socializing are to be conducted outside in one of our many courtyards. Chemistry teaching assistants will be available here to answer questions and provide help during most daytime and early hours. Your discussion TA will have office hours in the CLC, but you may go there at any time that a TA is assigned to get help on questions pertaining to chemistry. Times at which the CHM 2046 assistants are available will be posted on the web and outside the CLC.

Class Etiquette

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, leave only when class is concluded by the instructor, and do not disrupt the class (e.g., student talking or cell phone noises).

Academic Honesty

Students are required to be honest in their coursework. Any act of academic dishonesty will be reported to the Dean of Students, and may result in failure of the assignment in question and/or the course. *N.B. Unauthorized recordings are a violation of the honor code §3.i.* UF's honor code: <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

U Matter, We Care

Your well-being is important to the University of Florida. The U Matter, We Care initiative (www.umatter.ufl.edu/) 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.

Accommodations for Students with Disabilities

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Contact the Disability Resources Center (<http://www.dso.ufl.edu/drc/>) for information about available resources for students with disabilities.

UF Course Evaluation Process	Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at 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 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.
Student Learning Outcomes	The following learning outcomes (see table below) will be assessed through monitored Discussion Section preparation and participation, as well as through online assessments and in-semester and final examinations.

Area	Institutional Definition	Institutional SLO
CONTENT	Content is knowledge of the concepts, principles, terminology, and methodologies used within the discipline.	Students demonstrate competence in the terminology, concepts, methodologies, and theories used within the discipline.
COMMUNICATION	Communication is the development and expression of ideas in written and oral forms.	Students communicate knowledge, ideas, and reasoning clearly and effectively in written or oral forms appropriate to the discipline.
CRITICAL THINKING	Critical thinking is characterized by the comprehensive analysis of issues, ideas, and evidence before accepting or formulating an opinion or conclusion.	Students analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems.

Topics & associated reading (timetable provided is a best estimate of course progress):

Equilibrium	Chapter 17	week #1 & #2	01/08 – 01/19
Acid-Base Equilibria	Chapter 18	week #3 & #4	01/22 – 02/02
Ionic Equilibria in Aqueous Systems	Chapter 19	week #5 & #6	02/05 – 02/16
Thermodynamics	Chapter 20	week #7 & #8	02/19 – 03/02
Spring Break		week #9	03/05 – 03/09
Electrochemistry	Chapter 21	week #10 & #11	03/12 – 03/23
Main Group Chemistry	Chapter 14, 22	week #12 & #13	03/26 – 04/06
Transition Metals	Chapter 23	week #14 & #15	04/09 – 04/20
Special Topics		week #16	04/23 – 04/25