

General Chemistry
CHM 2046 Section 2D99
Spring 2017

- Instructor:** Dr. Michael N. Weaver, Physics Building (NPB) 2301
- Email:** mnweaver@ufl.edu
- Required Text:** Vining *General Chemistry* Online
- Lecture:** 8th Period (3:00p-3:50p), Monday, Wednesday, Thursday Leigh 104
- Progress Exams:** Thursday, February 9th; Monday, March 20th; Monday, April 17th
- Final Exam:** Tuesday, April 25th 10:00am-12:00pm
- Office Hours:** MW 12:30p-1:30p or by appointment NPB2301
- E-Learning:** <https://lss.at.ufl.edu/> (Canvas)

Objectives and Summary: This course is the first of a two-course general chemistry sequence. Coverage includes equilibrium processes, acid-base chemistry, electrochemistry, free energy, entropy, nuclear chemistry, and solubility equilibria. The course concludes with an introduction to organic chemistry.

Course Grades: Grades will be determined based on your performance on three progress exams (in class) administered during the semester and a cumulative final exam during the 2-hour exam period. These examinations will account for 800 course points. **Please Bring Your Student ID to All Exams.** Approximately ten online quizzes will be administered, accounting for an additional 100 points. The final 100 points will be determined by performance on several homework assignments assessed based participation in during-lecture presentations of the solutions. Finally, please note that there is **no extra credit** offered in this course. The distribution of points is outlined below:

Progress exams	450 maximum points	45%
Final exam	300 maximum points	30%
Online Quizzes	100 maximum points	10%
Online Homework	100 maximum points	10%
CHM2045 Refresher	50 maximum points	5%
Total	1000 maximum points	100%

Exam Conflicts and Makeups: This course administers all conflicts with scheduled examinations in accord with University policy. As such, certain unavoidable absences by students from examinations are allowed, if properly documented and disclosed to Dr.

Weaver *at least one week before* the anticipated conflict. Such allowed absences include, but are not limited to, religious observances, participation in official university activities, military obligations, and court-imposed legal obligations. In all such cases, students will be given the opportunity to take a *conflict exam*, which will be given shortly *before* the scheduled exam.

No exams will be administered to absent or otherwise compromised students for a grade *after* the established and scheduled examination time. Exams given to excused students after the scheduled in-class exam are herein defined as *makeup exams*; **no makeup exams are given in this course.**

Unpredicted absences due to illness or a significant personal emergency are not covered under the above conflict exam policy. The student should provide verifiable documentation of the illness or emergency to Dr. Weaver within a timely fashion of the scheduled examination date. The student is expected to makeup all work associated with the examination. This means completing the exam (obtainable from Dr. Weaver) honestly under the instructions given with the exam without unauthorized assistance, and then self-assessing the performance using the published (on-line) exam solution. If the supporting documentation and the worked and self-graded exam are presented and prove acceptable to the instructor at the time the student is ready to restart his/her academic pursuits, the exam will be omitted from the student's course grade computation ("dropped"). In effect, the exam score will be replaced by the average of the hourly exam scores that were earned.

Homework: Throughout the semester several graded homework sets will be distributed to assist you in (1) assessing your grasp of the material and (2) preparing for the semester examinations. Additionally, there are recommended problems provided with each chapter that will not be collected, and you are strongly advised to complete these in order to prepare for the exams. Grading of these assignments will be based on your participation in presenting solutions on the chalkboard during the lecture period.

Class Attendance and Etiquette: While there is no formal attendance requirement in this course, class participation and the associated points will necessitate your presence for the majority of scheduled meetings. While in attendance you are expected to be on time and be courteous out of respect for your classmates. If you are unable to attend a lecture the course notes will be available on the E-Learning site as they were presented in class (PDF file). Please set all cell phones on silent or vibrate. ***Use of cell phones is strictly prohibited during classes and exams.*** For examinations only, please refrain from wearing hats. ***The use of laptops, tablets, etc. is permissible during class but prohibited during exams.*** Lectures may not be recorded in any format without prior consent from Dr. Weaver.

Course Approach: Ideally you should have a minimum of 1 hour per day set aside for this course. During this time, not only should you review—and be sure you understand—the lecture notes, you should take the time to practice the recommended problems. Waiting until right before the exam to begin your preparation will result in likely disappointment when grades are returned. Additionally, if you find that you do not understand some of the

concepts, get help early. The lectures build upon one another and waiting to have your questions addressed will put you further behind. PROCRASTINATION DOESN'T PAY!

Final Grades: Final grades will be assigned based on the scale below. If deemed necessary, a “curve” will be applied in that the cutoffs for grades will be lowered. The cutoffs will not be raised, i.e. this establishes the minimum requirements for letter grades.

Grading Scale

%	Letter	%	Letter
93-100	A	67-	D+
90-	A-	63-	D
87-	B+	60-	D-
83-	B	0-	E
80-	B-		
77-	C+		
73-	C		
70-	C-		

Disability Resources: The University of Florida is committed to providing academic accommodations for students with disabilities. Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students should present their accommodation letter to me supporting a request for accommodations. The University encourages students with disabilities to follow these procedures as early as possible within the semester.

The UF Student Honor Code: (see <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/> for details): *We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. 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.”*

Honor Code violations include copying on an exam (or helping another student to copy) and/or turning in an exam for regrading that has been changed since it was graded by the instructor.

Any student found responsible for an academic honesty violation in this course will be recommended sanctions consistent with the offense.

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Tentative Course Schedule

Week	# of Lectures	Vining Chapters	Lecture Topics
Jan 2	2	15	Equilibrium
Jan 9	3	15, 16	Equilibrium, Acids/Bases
Jan 16	2	16	Acids/Bases
Jan 23	3	17	Acid/Base Equilibria
Jan 30	3	17, 18	Acid/Base Equilibria, Solubility Equilibria
Feb 6	2	18	Solubility Equilibria
<i>Exam 1 Thursday, February 9</i>			
Feb 13	3	19	Thermochemistry
Feb 20	3	19, 20	Thermochemistry, Electrochemistry
Feb 27	3	20	Electrochemistry
Mar 13	3	21	Organic Chemistry
Mar 20	2	21	Organic Chemistry
<i>Exam 2 Monday, March 20</i>			
Mar 27	3	22	Main-Group Elements
Apr 3	3	23	Transition Metals
Apr 10	3	24	Nuclear Chemistry
Apr 17	1	Review	
<i>Exam 3 Monday, April 17</i>			
<i>Final Exam Tuesday April 25th, 10:00 am – 12:00 pm</i>			

****For Additional Practice, Complete the Unlisted Exercises From Each Chapter****

*****Holidays (No classes): January 16th, March 6th-March 10th***