

Instructor: Dr. Laura Peterson

Contact Information: laura.peterson@chem.ufl.edu; Office: SIS328B; Phone: 352-294-1364

Class Time/Location:

Number 11387: MWF, 11:45AM – 12:35PM, 5th period

Number 11388: MWF, 12:50PM – 1:40PM, 6th period

Number 11414: MWF, 1:55PM – 2:45PM, 7th period

Classroom: Flint 50

Course Description: The first half of the CHM 2210/2211 sequence, intended for majors and pre-professional students. A study of the structures, syntheses, and reactions of organic compounds.

Prerequisites: CHM 2046 and CHM 2046L

Recommended Textbook: Brown, Iverson, Anslyn, Foote. *Organic Chemistry, Eighth Edition*, Brooks Cole Learning, 2017. (ISBN 1305580354)

Recommended Study Guide: Iverson, Iverson. *Student Study Guide and Solutions Manual for Brown/Iverson/Anslyn/Foote's Organic Chemistry, 8th Edition*, Brooks Cole, 2017. (ISBN 1305864506)

Publishers Website/Where to buy: <http://www.cengagebrain.com/course/3643273>

Recommended Workbook: Organic Chemistry I Workbook, available at Target Copy. Copy for use during office hours also available.

Recommended Model Set: A molecular model set is highly recommended. Links to specific modeling kits can be found on the E-Learning website.

E-Learning Website: All students will have access to the e-Learning website (Canvas): <https://lss.at.ufl.edu>

You will login with your Gatorlink account username and password. General course information, important announcements, office hours, handouts, exam keys, and practice problems will be posted here.

Office Hours and Related:

Dr. Peterson's Office Hours (SIS328/SIS340, Subject to Change):

Monday/Wednesday 9:00AM – 11:00AM

Tuesday 10:30AM – 12:30PM

Undergrad TA's Office Hours (JHH 203/205, Subject to Change):

*Schedule will be posted to Canvas

Organic Chemistry Learning Center (OCLC) TA Office Hours: Monday - Friday 9:00-4:00; JHH203/205; a more specific schedule will be posted on Canvas

Exams and Grading:

Your grade will consist of the following:

Four (4) Progress Exams:	400 points
Final Exam:	150 points
ALEKS:	20 points
TOTAL:	570 points

Progress Exams: There will be four regular progress exams given in assembly (**8:20-9:50PM, 90 mins**) during the semester (Exam rooms will be posted to Canvas prior to each exam). Each exam will be cumulative but will emphasize material covered following the previous exam. The exam dates are listed on the last page of the syllabus.

Final Exam: The final examination will be cumulative. The final exam is scheduled by the University for **Saturday April 25th 8:00PM-10:00PM**. No one will be allowed to take the final exam early.

Please bring and display your Gator1 Student ID card for exams.

Your grade will be calculated out of 570 total points and the following grading scale** will be used:

A: 92-100	A-: 90-91.99			
B+: 87-89.99	B: 82-86.99	B-: 79-81.99		
C+: 75-78.99	C: 65-74.99	C-: 60-64.99		
D+: 55-59.99	D: 50-54.99	D-: 45-49.99	E: <45	

** The instructor reserves the right to change the grading scale at any point during the semester.

Exam Absence Policy: This course administers all conflicts with scheduled assessments and examinations in accord with the University policy (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>). As such, certain unavoidable absences by students from examinations are allowed, if properly documented and disclosed to Dr. Peterson **at least one week** before the anticipated conflict. Such allowed absences include, but are not limited to, religious observances, sanctioned sporting events, military obligations, and court-imposed legal obligations. In such cases, students will be given the opportunity to take a conflict exam before the scheduled exam for the class, the conflict exam schedule is below.

Missing an exam due to an emergency or sudden illness: If you are absent for an exam due to an unpredicted documented medical reason, family emergency, or other reason, you must contact the instructor as soon as possible. **Your absence must be verified by the Dean of Student's Office (DSO):** <https://care.dso.ufl.edu/instructor-notifications/>. If your documentation cannot be verified through the DSO, you will receive a zero on the missed exam. The makeup exam schedule can be found on Canvas.

Regrading: If you have a question concerning the grading of an exam, you may submit the entire exam for complete regrading. Your score may increase or decrease accordingly. The exam must be submitted, with the cover page (found on Canvas) describing the perceived error within the timeframe set forth in class. Please note that your exams may be photocopied prior to being returned to you.

Practice Problems: Practice problems will be assigned from the questions at the end of each chapter. In addition, additional practice problems are found in the “Organic Chemistry I Workbook”. Homework assignments will not be collected or graded. However, completion and understanding of the practice problems will be of critical importance to succeeding in this course. Typically, a student, in order to be successful, will need to spend **1-2 hours per day** studying and “practicing” for this course.

Suggested Chapter homework problems will be posted on the E-Learning site. The “Organic Chemistry I Workbook” can be printed at Target Copy and will also be available electronically on the E-Learning site.

ALEKS Prep Course: All students who complete at least 85% of the ALEKS Prep Course by January 29th (11:59PM) will receive the full 20 points as part of their final grade in CHM2210. Students who complete less than 85% of the ALEKS Prep Course in the indicated timeframe (Jan. 29th) will receive zero (0) points. There will be no partial credit for ALEKS.

Classroom Etiquette: Disruptive behavior, loud talking, and other activities that interfere with other student’s ability to learn will not be tolerated

Advising Issues: Visit or contact one of the chemistry undergraduate advisors.

Website: <https://www.chem.ufl.edu/undergraduate/academic-advisors/>

Email: advising@chem.ufl.edu

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 will receive an accommodation letter which must be presented to the instructor when requesting accommodations.

Course Evaluation: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.ua.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.ua.ufl.edu/public-results/>.

UF Honor Code:

The UF Student Honor Code (see [http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code for details](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 receive a ‘0’ for the compromised exam.

Tentative Schedule: The schedule below is a *rough* guideline:

Date	Chapters: Topics
M 1/6	Introduction 1: Line-Angle Formulas
W 1/8	1: Functional Groups, Resonance
F 1/10	1: Resonance, Hybridization & Bonding
M 1/13	1: Hybridization & Bonding
W 1/15	1: Molecular Orbitals
F 1/17	4: Brønsted-Lowry Acids & Bases, Mechanism of Acid/Base Reactions, pKa
M 1/20	4: Estimating Acid Strength and Equilibria
W 1/22	4: Lewis Acids & Bases, Bases with 2 Receptor Sites, π -bonds as Bases
F 1/24	2: Alkane Introduction and Nomenclature (Naming)
M 1/27	2: Conformations of Alkanes and Newman Projections
W 1/29	2: Conformations of Alkanes and Newman Projections
R 1/30	Exam 1 (8:20-9:50PM)
F 1/31	NO CLASS
M 2/3	2: Cycloalkanes Nomenclature and <i>cis/trans</i> Isomerism
W 2/5	2: Cycloalkanes Conformations, Cyclohexane Chairs
F 2/7	2: Cyclohexane Chairs, Bicycloalkanes
M 2/10	3: Stereoisomerism, Chirality
W 2/12	3: Absolute Configuration (R/S System), Optical Activity
F 2/14	3: Stereoisomers in Molecules with 2+ Chiral Centers
M 2/17	3: Fischer Projections 5: Alkenes: Structure and Nomenclature
W 2/19	6: Electrophilic Addition, Carbocation Stability
F 2/21	6: Markovnikovs Rule and Regioselectivity
M 2/24	6: Acid-Catalyzed Hydration
W 2/26	6: Carbocation Rearrangements
R 2/27	Exam 2 (8:20-9:50PM)
F 2/28	NO CLASS
M 3/2	SPRING BREAK (NO CLASS)
W 3/4	
F 3/6	
M 3/9	6: Addition of Br ₂ and HOBr (Br ₂ /H ₂ O)
W 3/11	6: Oxymercuration-Reduction
F 3/13	6: Hydroboration-Oxidation, Oxidation with OsO ₄
M 3/16	6: Ozonolysis, Catalytic Reduction, Alkene Stability 7: Alkyne Nomenclature and Acetylide Substitution
W 3/18	7: Preparation of Alkynes, Electrophilic Addition
F 3/20	7: Electrophilic Addition, Hydration and Reduction of Alkynes
M 3/23	8: Free Radical Halogenation
W 3/25	8: Radical Stability
R 3/26	Exam 3 (8:20-9:50PM)
F 3/27	NO CLASS
M 3/30	8: Selectivity of Free Radical Halogenation, Radical Addition of HBr
W 4/1	8: Allylic Halogenation
F 4/3	9: Leaving Groups, Nucleophiles, and Solvent Effects
M 4/6	9: S _N 1 and S _N 2 Mechanisms
W 4/8	9: E1 and E2 Mechanisms
F 4/10	9: Examples (Competition, Regioselectivity)
M 4/13	10: Alcohols (Nomenclature: DIY)
W 4/15	10: Alcohols
R 4/16	Exam 4 (8:20-9:50PM)
F 4/17	NO CLASS
M 4/20	11: Epoxides Preparation and Acid Catalyzed Ring Opening
W 4/22	11: Epoxides Base Catalyzed Ring Opening
S 4/25	Final Exam (8:00-10:00PM)