

CHM2210 – Organic Chemistry

Instructor: Dr. Stefanie Habenicht
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Section: O21P(10556)

Contact: Canvas message only ([how-to](#))
Allow up to 48 hours for a response, not counting weekends and holidays.

Course Information

Course Objectives: At the end of the semester, students will be able to recognize common organic functional groups and name organic molecules using IUPAC nomenclature rules, correlate molecular structure and properties, draw basic reaction mechanisms and use them to account for/predict the products or starting materials of reactions (addition, substitution, and elimination reactions of alkenes, alkynes, alkanes, alkyl halides, alcohols, ethers and epoxides), and propose multistep syntheses for organic molecules.

Prerequisites: CHM 2046 and CHM 2046L or equivalent with a minimum grade of C (2.0)

Meeting Times: MWR 6th period (3:30 PM–4:35 PM) in [Leigh 207](#)

Required:

Textbook: Brown, Iverson, Anslyn and Foote, Organic Chemistry, 8th Edition (physical copy or eBook, Cengage Learning; ISBN: 978-1305580350 via UF All Access).

This course is participating in UF All Access, the least expensive and fastest way to get access to your course materials for the semester. Please visit the Bookstore [All Access Site](#) to opt-in and purchase your Connect code, which will provide access to the eBook, solutions manual and OWLv2 (we will not be using OWLv2).

ALEKS Prep for Organic Chemistry: 11-week access code (McGraw Hill, ISBN: 9781259664427).

Recommended:

Study Guide: Iverson, Organic Chemistry, Student Study Guide and Solutions Manual, 8th Edition (Cengage Learning, ISBN: 978-1305864504).

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

Purchasing Options: This course is participating in UF All Access, the least expensive and fastest way to get access to your course materials for the semester. Please visit the Bookstore All Access Site to opt-in and purchase your required Connect code, which will provide access to the eBook and solutions manual of the Brown text.

E-Learning Website: All students will have access to the e-Learning website (Canvas): <https://elearning.ufl.edu/>. You will login with your GatorLink account username and password. General course information, lecture videos, important announcements, office hours, handouts, exam keys, and practice problems will be posted here. 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/>.

Computer Recommendations: Reliable access to a computer and the internet is required for this course. A student's computer configuration should include the: a video card capable of showing typical web-based video content (preferably in HD), speakers and a microphone or headphones with built-in microphone, webcam, broadband connection to the internet and related equipment (Cable/DSL modem), Microsoft Office Suite installed ([provided by the university](#)) and a PDF viewer (e.g. Adobe Reader). You can find hardware recommendations [here](#).

Office Hours:

An office hour schedule will be worked out based on student availability and posted to Canvas.

Recording Notice: Class meetings may be audio-visually recorded. Recordings will generally capture the lecture board and view of the instructor podium. Students who step into this space consent to being audio-visually recorded; students who participate orally are agreeing to have their voices recorded.

Assignments and Grading

Your grade will be based on the following items:

ALEKS Prep Course	3%
Homework	9%
Four (4) Progress Exams:	88% (22% each)
TOTAL:	100%

Your grade will be calculated based on the following grading scale:

A:	92-100	A-:	89-91.99				
B+:	84-88.99	B:	79-83.99	B-:	74-78.99		
C+:	67-73.99	C:	60-66.99	C-:	55-59.99		
D+:	50-54.99	D:	45-49.99	D-:	40-44.99	E:	<40

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

Grades will be assigned in accordance with University policy: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

ALEKS: You must complete 100% of the ALEKS Prep course by 6/2/2023 (11:59 PM) to receive full credit for this assignment (3% of the final grade). Students who complete less than 100% by 6/2/2023 will receive zero (0) points; there will be no partial credit for the ALEKS assignment. The ALEKS course code is JRCEV-VELYJ.

Homework: Homework will be assigned, collected, and graded on a weekly basis. Homework problems will be assigned from instructor worksheets made available in Canvas at the start of each new chapter. Specific due dates/times will be announced in Canvas. Collaboration (i.e., discussing ideas and strategies with other students) on homework assignments is allowed and encouraged. Each student must submit their own work, and must note with whom they have collaborated, if anyone. Copying another student's homework is not permitted and will result in a referral to the Dean of Students' Office for Student Conduct & Conflict Resolution. Homework will be graded on completeness (50%) and correctness (50%). Late submissions will not be accepted; please plan accordingly.

Progress Exams: There will be four (4) 100-point progress exams given roughly during class time. Progress exams will be cumulative but will emphasize material covered following the previous exam. Exam dates are listed in the course schedule at the end of this syllabus.

Exam Absence Policy: This course administers all conflicts with scheduled exams in accord with the University policy (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>). University recognized conflicts include, but are not limited to, religious observances, participation in official university activities, military obligations, and court-imposed legal obligations. Students will be given the opportunity to take a *conflict exam*, which will be given shortly *before* the scheduled exam provided that the conflict is a) properly documented and b) disclosed to the instructors **at least one week before** the scheduled exam.

Unpredicted Absences due to medical or sudden family emergencies are not covered under the above conflict exam policy. A student who is absent for an exam due to one of the reasons listed above must contact the instructors as soon as they are able, and must submit documentation to the Dean of Students Office (<https://care.dso.ufl.edu/instructor-notifications/>). Once the instructors are satisfied with the validity of the documentation, a make-up exam will be scheduled after a reasonable amount of time, *i.e.*, before the end of the semester. If the student's documentation is deemed insufficient to excuse the absence, a score of *zero* will be assigned for the missed exam. Exams missed without any documentation will be assigned a score of *zero*.

Exam Regrades: If you have a question concerning the grading of an exam, you may request a regrade. Once a regrade request is submitted, the **entire exam** will be regraded to ensure accuracy, and your score may increase or decrease accordingly. To request a regrade, print and fill out the regrade request form provided in Canvas, **briefly** describe the perceived grading error, and submit the form to the instructor in person no later than 5 school days after the date that the exams are returned to the class. Questions regarding grades/grading are not accepted by email or Canvas message. Please note that your exams will be scanned or photocopied prior to being returned to you. Regrades may not be requested after close of business on the last day of instruction.

Other Information and Policies

Practice Problems: Practice problems will be assigned from the questions at the end of each chapter (EOC) and instructor worksheets. These 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. Do not turn to the solutions manual immediately! Understanding the solution to a problem does not teach you any problem-solving skills. Keep up with the course and you will be in good shape. Try and allow at least 2 hours **per day** (6 days a week) to study, work the problems and read the book chapters.

Questions? Just Ask! This term we will be using *Piazza* for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, TAs, and instructors. You can even ask questions anonymously! Do not send questions via email or Canvas message. If you have any problems or feedback for the developers, email team@piazza.com.

You can find a link to our Piazza class page on the e-Learning website.

Contacting the Instructor/Office Hours: Canvas messages are for administrative purposes only, and *not for distance-instruction*. All academic inquiries must be made during office hours or on Piazza (see above). Be prepared before attending office hours, bring specific questions and your previous work. Questions about grades will not be discussed during office hours due to privacy regulations.

For private or grade-related questions, direct your questions directly to the instructor using the Canvas message function. **Do not email outside of Canvas to your instructor's email;** you will be asked to resend the query through Canvas.

Attendance and Classroom Etiquette: Although attendance will not be taken, students are expected to come to class and be there on time. Please be respectful of others and adjust your cell phone so that it does not ring during class. If you arrive late on exam days, you will not be given additional time.

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

Website: <https://www.chem.ufl.edu/undergraduate/advising/>

Email: advising@chem.ufl.edu

Need to drop this course? You can do so by logging in to ONE.UF and selecting "After Deadline – Add/Drop Classes" under Registration in the main menu. If you have questions or need help with this process, please reach out to the advising office in your college.

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

U Matter, We Care: Your well-being is important to the University of Florida. The U Matter, We Care initiative (<http://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.

Faculty Evaluations: 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.aa.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.aa.ufl.edu/public-results/>.

In-Class Recording: Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

Copyright Notice: All handouts used in this course are copyrighted and may not be copied without the instructors’ expressly granted permission. ‘Handouts’ include all materials generated for this class, which include but are not limited to syllabi, exams, problems, in-class materials, review sheets, problem sets, or other materials. Tutors and tutoring services are expressly forbidden from copying any or all of these materials without prior written permission. Only students currently enrolled in the class may make a single copy of this material for their personal use.

The UF Student 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.”

Honor Code violations include, but are not limited to, copying on an exam (or helping another student to copy), submitting someone else’s work as your own, having another person complete assignments for you, and unauthorized collaboration.

Any student found responsible for an academic honesty violation will receive a zero (0) for the compromised exam or assignment.

The Conduct Code specifies a number of behaviors that are in violation of this code and the possible sanctions. [Click here to read both the Honor Code and the Conduct Code](#). If you have any questions or concerns, please consult with the instructor.

Tentative Course Schedule

Date	Chapter: Topics
M, 5/15	1: course introduction, review items, line-angle formulas
W, 5/17	1: functional groups, resonance
R, 5/18	1: molecular orbital theory, valence bond theory (hybridization of atomic orbitals)
M, 5/22	1: hybridization of atomic orbitals (cont'd)
W, 5/24	4: Brønsted-Lowry acids and bases, acid-base equilibria, mechanisms of acid-base reactions
R, 5/25	4: molecular structure and acidity, Lewis acids and bases
M, 5/29	Memorial Day – no class
W, 5/31	2: alkane structure and nomenclature, structural isomers, classification of C and H atoms
R, 6/1	2: conformational analysis of alkanes, cycloalkane intro and nomenclature
M, 6/5	Exam 1 – no class
W, 6/7	2: isomerism in cycloalkanes, conformational analysis
R, 6/8	3 the concept of chirality, types of stereoisomers
M, 6/12	3: naming chiral centers (the <i>R/S</i> system), acyclic molecules with two or more stereocenters
W, 6/14	3: Fischer projection formulas, cyclic molecules with two or more stereocenters, optical activity
R, 6/15	5: alkene structure and nomenclature, introduction to reactions of alkenes
M, 6/19	6: organic reactions involving reactive intermediates, alkene hydrohalogenation, carbocations
W, 6/21	6 alkene hydrohalogenation (cont'd), review
R, 6/22	Exam 2 – no class
	Summer Break (6/26–6/30)
M, 7/3	6: carbocation rearrangements, acid-catalyzed hydration of alkenes
W, 7/5	6: addition of Br ₂ and Cl ₂ , addition of HOBr and HOCl
R, 7/6	6: oxymercuration-reduction and hydroboration-oxidation of alkenes
M, 7/10	6: oxidation, reduction and stability of alkenes, alkyne structure and nomenclature
W, 7/12	7: acidity of 1-alkynes, preparation of alkynes from 1-alkynes and alkenes, electrophilic addition
R, 7/13	7: hydration and reduction of alkynes, organic synthesis
M, 7/17	8: haloalkane structure and nomenclature, radical halogenation of alkanes, radical stability
W, 7/19	8: Hammond's postulate, allylic bromination, radical addition of HBr to alkenes
R, 7/20	Exam 3 – no class
M, 7/24	9: overview of nucleophilic substitution and β-elimination, S _N 2 reaction
W, 7/26	9: S _N 1 reaction, E1 and E2 reactions
R, 7/27	9: E2 stereochemistry, examples (S _N 1/E1/S _N 2/E2: competition, regioselectivity)
M, 7/31	10: alcohol structure and nomenclature, acidity/basicity, reaction with active metals, conversion to haloalkanes and sulfonates
W, 8/2	10: acid-catalyzed dehydration of alcohols, pinacol rearrangement, oxidation of alcohols
R, 8/3	11: ether structure and nomenclature
	11: preparation and reactions of ethers, preparation and reactions of epoxides
M, 8/7	TBD
W, 8/9	Exam 4 – no class
R, 8/4	no class