

Syllabus

Instructor: Dr. Simon E. Lopez (Simon Enrique Lopez D'Sola), 312 Leigh Hall

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Prerequisite: CHM 2046/2046L or the equivalent.

Required Text/access:

(1) Brown, Iverson, Anslyn, and Foote “*Organic Chemistry*” 8th Edition (CENGAGE; e-book ISBN: 9781305580350; or paperback ISBN: 1305580354)

(2) IClicker “in class” questions. Free for UF students ([iClicker Response System - Academic Technology - University of Florida \(ufl.edu\)](https://join.iclicker.com/CRJO)). Use the code given in the following link: <https://join.iclicker.com/CRJO>

Recommended: Brown, Iverson, Anslyn, and Foote “*Student Study Guide and Solutions Manual, Organic Chemistry*” 8th Edition (CENGAGE; ISBN: 1305864506), OWL access, and a molecular modeling kit.

Important notes: This course is participating in UF All Access, the least expensive and fastest way to get access to your course materials! Please visit: to OPT in and purchase your access code [includes OWLv2 access and e-book].

Model Kit: Highly Recommended Model is the following:

HGS Student model set, Fundamental organic chemistry

<http://www.sigmaaldrich.com/catalog/search/ProductDetail/ALDRICH/Z277703>

Supplementary Textbooks: Organic Chemistry Textbooks by: Klein; Wade; McMurry; Vollhardt & Schore; Morrison & Boyd; Bruice; Hornback; Streitwieser & Heathcock, Top-Hat Organic Chemistry book (2021 last ed.)

Buying Options: Go to the bookstore and on-line booksellers.

Lectures: M, W, R (T, 4-5th period, 10:40 a.m. - 12:35 p.m.; R, 5th period, 11:45 a.m. - 12:35 p.m) in FLINT-050.

Progress Exams: Feb 7th, Feb 27th, March 27th, and Apr 18th. All the four Progress Exams will be assembly exams (8:20-9:20 p.m., 60 minutes long each), rooms to be announced at Canvas soon.

Final Exam: Monday 04/28/2025, 5:30 PM-7:30 PM. – Room will be announced at Canvas later -.

Office Hours: T, R (1:00 p.m. – 3:00 p.m.) in SIS-340.

E-Learning Website: <https://lss.at.ufl.edu/> (updated regularly with announcements, exam scores and information, practice material, handouts, and lecture notes from class).

Grad TAs Office Hours: Graduate teaching assistants will be available in SFH 203/205, the Organic Chemistry Learning Center (OCLC), ***Schedule to be announced soon!***.

Course Objective: To understand the structures, syntheses, and reactions of organic compounds.

Course Assignments and Grading Policy: During the semester four 60-minute progress exams (180 points each) will be given. Additionally, you will have “in-class” IClicker questions (around 30 points) and the OCCR (40 points).

Your grade will be determined according to the following algorithm:

- Four 50-minute exams (180 points each): 900 possible points (72 % of the final grade).
- One Final Exam: 210 points (21 % of the final grade).
- IClicker (in class questions): around 30 possible points (3% of the final grade).
- Organic Chemistry Challenge Room (OCCR): around 40 possible points (4% of the final grade).

Total: 1000 possible points (100 %).

Progress Exams: Four 60-minute progress exams will be given during the semester. Each will focus on a minimum of two chapters of material.

*****Please bring your student ID to all exams*****

Attendance, Extension Requirements:

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/UGRD/academic-regulations/attendance-policies/>

Exam absences will be handled in accordance with official UF academic regulations. For more information, see <https://catalog.ufl.edu/UGRD/academic-regulations/> . See below for further clarification for two different types of situations.

Policy on Exam Conflicts and Makeups:

(1) Conflicts with other events: acceptable reasons may include religious holidays, military obligations, special curricular requirements (e.g., attending professional conferences), or participation in official UF-sanctioned activities such as athletic competitions, etc. For more information on such absences see the official UF Policy at <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/#absencestext>). If you must be absent for an exam due to a documented and approved conflict known in advance, you must e-mail your instructor (within Canvas) the documentation at least one week prior to the scheduled exam and an early conflict exam will be scheduled for you.

(2) Missing an exam due to an emergency or sudden illness: If you are absent for an exam due to an unpredicted documented medical reason or family emergency, you must contact the instructor as soon as possible, and you may be asked to have your excuse verified by the Dean of Students Office (DSO). Your instructor will follow UF academic regulations in evaluating the notification and/or documentation received from you or from the DSO on your behalf. Once your instructor is satisfied with the validity of your exam absence, a make-up exam will be scheduled after a reasonable amount of time, i.e., before the end of the semester. If your documentation is deemed insufficient to excuse your absence, you will receive a zero on the missed exam.

(3) To alleviate the stress of potential issues that do not fall under officially sanctioned absences, I've incorporated an "average/replace" policy (the lowest of the four progress exams will be replaced by the average of the four progress exams). This "average/replace" policy will help to minimize the impact of a single poor performance, but it will not completely disappear.

Exam Regrades: Exams, except those written (even partially!) in pencil/erasable pen, are eligible for regrading. All exam grading inquiries must be submitted in writing to Dr. Lopez (staple the provided cover sheet to the exam that details your concerns and place the exam in the regrade box in 312 Leigh Hall by the student no later than **one week** from the date that the exams are returned to the class. *Questions regarding grades/grading are not accepted by e-mail.*

Important note: Once submitted, the ***entire exam*** will be regraded to ensure accuracy and your score may increase or decrease accordingly.

Homework: Homework assignments will come from *two* sources: OWL ("electronic" homework) and additional study problems from the Brown text. Problems from these sources will not be collected or graded. It is your responsibility to work the recommended problems and read the book—***this is essential for being successful in the course and will help you on the exams.***

The "required" (as opposed to "optional") exercises from the OWL assignments are considered to be the most important/relevant of the on-line problems. Access instructions for OWL are provided on the course E-Learning site.

In class IClicker questions (IC): After the Drop/Add period ends, lecture participation will be facilitated via the IClicker cloud student response system. You'll be able to use your smart phone or laptop or tablet or any other applicable device. Thirty (30) points (3 %) will be based on performance on in-class IClicker questions. You can earn points in class by correctly answering IClicker questions (1.0 point per correct answer + 1.0 point per participation). No "make-up" IClicker options will be offered for any reason - no exceptions. You must be in the classroom to answer any IClicker in class question.

Organic Chemistry Challenge Room (OCCR):

Starting the second week of classes, students should discuss, answer, prepare and upload a file (*pdf* format) in response to a weekly posted document containing challenging questions(s) of Organic Chemistry related to the topics covered in class. There are thirteen (13) OCCR sheets, released one per week, 4 points each (Total = 52 points, 4% of the final grade). Twice a week, "zoom" chat-meetings will be offered to the students (45 minutes long each). Students will have

the opportunity to work and ask questions to the TAs during these zoom meetings. Dr. Lopez will randomly visit the meetings and chat directly to the students about the challenge questions. A 25% penalty will apply for e/delayed day.

Approach to the Course: *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 on the problems and practice material, and read the book chapters. Use the on-line resources given by the links on the E-Learning course site. There are a big number of problems, quizzes, and exams on the internet. Please do not wait until the last minute to come to ask me for help. Use the office hours!*

Organic chemistry is a challenging course, but it is completely manageable if you work hard, have dedication and practice!

Final Grades: Your final grade will be based on a class “curve” that is determined at the end of the course. I will do my best to keep each of you informed as to your performance in the class as we go along. For example, approximate letter grade cut-offs will be posted following each of the exams (typically the class average will be given the letter grade equivalent of C+). *Minus grades will be used in this course. See UF grades and grading policies at: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>*

Attendance and Classroom Etiquette: Although attendance will not be taken, I expect you to come to class and be there on time. If you miss a lecture, you can find the course notes (as offered in class) posted as a PDF file on E-learning. When you are in class please be respectful of others. Hats may not be worn during exams.

Cell phone use is strictly always prohibited in the lecture auditorium. Please adjust your phone so that it does not ring. If you come late on exam 'days you will not be given additional time. The only exception corresponds to the use of a cell phone to participate in the Top Hat “in class” questions.

CONTACTING THE INSTRUCTOR / OFFICE HOURS:

Emails are for administrative purposes only, and not for distance instruction. All academic inquiries must be made during office hours or before/after lectures (if time permits). If this is not possible, visit the OCLC (see below). Please be prepared before coming to office hours, bring specific questions and your previous work. Questions about grades will not be discussed during office hours due to privacy regulations.

ORGANIC CHEMISTRY LEARNING CENTER (OCLC):

There is free help to be had from graduate student teaching assistants in the CLC Monday through Friday in the Chemistry/Chemical Biology Building 203/205 (CCB-203/205). You may go to the CLC anytime and any TA is assigned there to get help on questions pertaining to organic chemistry. A schedule of the TA schedules will be posted in the corridor outside the CLC and also online. Additionally, there is the teaching center located on the ground floor of Broward Hall, if you'd like to use that resource. Their web site is <http://www.teachingcenter.ufl.edu>.

Organic Chemistry Learning Center (OCLC) Office Hours: M – F (9:00 a.m. – 4:00 p.m.) in CCB 203/205.

Other Important Information:

- **Disability Resources:** 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.
- **Division of Student Affairs** (Counseling, Dean of Students Office): <http://www.ufsa.ufl.edu>
- **UF Grades and Grading Policies:**
<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>
- **Lose or find something during class?** Visit the Chemistry lost-and-found (Leigh Hall 218).
- **Need help adding or dropping this class?** Visit or Contact a Chemistry undergraduate advisor here:
Website: <https://www.chem.ufl.edu/undergraduate/academic-advisors/>
Email: advising@chem.ufl.edu
- **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.

Classroom Behavior Expectations for COVID-19:

We will have face-to-face instructional sessions to accomplish the learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

- This course has been assigned to a physical classroom with enough capacity to maintain certain physical distances among individuals. Please do not move desks or stations and wander around in classroom.
- Hand-sanitizing stations are placed inside of our classroom. Please sanitize your hands before you enter and after your exit the classroom.
- You are encouraged to wear approved face coverings during the classes and within buildings.
- Please wipe your desk down with sanitizing wipes prior to sitting down and at the end of the class.
- Follow your instructor's guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom.
- If you are experiencing COVID-19 symptoms (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>), please use the UF Health screening system and follow the instructions on whether you are able to attend class.
- During the office hours, you should always wear approved face coverings and practice physical distancing. Therefore, the number of students present at the office will be limited, and students will be addressed on a first-come-first-serve basis. Meetings outside of office hours are possible but by email appointment only (at least 2 days in advance).

Student Honor Code

The UF Student Honor Code (see: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/> for details): *As University regulations and their implementation are subject to applicable law and Florida Board of Governors ("BOG") regulations, the University will comply with Florida Statute 1004.097 Free expression on campus and BOG Regulation 6.0105 Student Conduct and Discipline, as amended and effective July 1, 2021. Any provision within this Regulation that conflicts or is not compliant with the above referenced law and regulation shall be held invalid; instead, the University incorporates by reference all requirements of BOG Regulation 6.0105 and Florida Statute 1004.097, as amended.*

CHM 2210 Organic Chemistry 1, Spring 2024 (Section 0212, Class: 18107)
Course Schedule

Instructor: Dr. Simon E. Lopez, 312 Leigh Hall (Office; phone: 352-3929700), Sisler 412/336 (Research Lab)

E-mail: simonlopez@chem.ufl.edu

E-Learning: <https://lss.at.ufl.edu/> (will be updated regularly)

Text: Brown, Foote, Iverson, and Anslyn, *Organic Chemistry*, 8th Edition and, highly recommended, the accompanying *Student Study Guide and Solutions Manual, Organic Chemistry*.

Lecture: M, W, and R, (T, 4-5th period (10:40 a.m – 12:35 p.m.; 5th period (11:45 a.m – 12:35 p.m.) in FLI-050.

Office Hours: T, R (1:00 p.m. – 3:00 p.m.) *in 340 Sisler Hall*.

Dates:	Chapter	Topics	Recommended Study Problems (from Brown's 8 th edition text)
Jan 13,15,16, 22	1	Course Intro; Covalent Bonding, Shapes of Molecules	1: 23-33, 35, 38-49, 51-53, 55-60, 62, 63, 69, 71, 73, 74
Jan 23,27,29, 30, Feb 3,5	2	Alkanes and Cycloalkanes	2: 16-18, 20-27, 32-36, 39, 42-44, 46, 48-50, 62-65
Exam 1: Friday, February 7th, 2025 (8:20-9:20 p.m; Rooms to be announced in Canvas soon) Chapters 1 – 2			
Feb 6,10,12, 13	3	Stereoisomerism and Chirality	3: 13, 14, 16-28, 30-32, 34, 36
Feb 17, 19	4	Acids and Bases	4: 9-17, 19, 20, 22, 26-28, 30-35, 38, 41, 42, 45-50, 52-54
Feb 20, 24	5	Alkenes	5: 9-11, 13-20, 23, 24, 35
Exam 2: Thursday, February 27th, 2025 (8:20-9:20 p.m; Rooms to be announced in Canvas soon) Chapters 3 – 5			
Feb 26,27 Mar 3,5,6,10	6	Reactions of Alkenes	6: 15-24, 26, 28-42, 44-51, 54
Mar 12,13	7	Alkynes	7: 8, 10-12, 14, 16-18, 20, 21, 23-25, 29-34
Mar 24,26,27	8	Haloalkanes, Radical Halogenation, and Radical Reactions	8: 8, 9, 13, 14, 16-18, 22-30, 32
Exam 3: Friday, March 27th, 2024 (8:20-9:20 p.m; Rooms to be announced in Canvas soon) Chapters 6 – 8.5			
March 31 st , Apr 2,3,7,9	9	Nucleophilic Substitution and β -Elimination	9: 10-13, 15, 17-22, 24-28, 30-35, 37-41, 44, 45, 47, 48, 50, 52, 54-61
Apr 10,14,16,17	10	Alcohols	10: 14, 16, 17, 25-32, 34, 35, 37-43, 45, 46, 49-56
Exam 4: Friday, April, 18th, 2024 (8:20-9:20 p.m; Rooms to be announced in Canvas soon) Chapters 8.6 – 10.6			
Apr 21,23	11	Ethers and Epoxides	11: 15, 16, 20, 21, 23-25, 27, 30-35, 42-45
Final Exam: Monday, Apr 28th, 2024, 5:30 pm-7:30 pm; Room to be announced soon Chapters 1 – 11			

Holidays (no classes): January 20th (Dr. Martin Luther King's Jr. day);

March 15th -22nd (Spring Break)