

UNIVERSITY OF FLORIDA

COURSE SYLLABUS

Chemistry 2210: Organic Chemistry I

Class/Section: 21879

Instructor and Contact Info:

Professor Zhongwu Guo; Office: SFH 302D; telephone: 352-392-9133; e-mail: zguo@chem.ufl.edu

Lecture Time and Location:

Time: T period 4-5 (10:40 AM - 12:35 PM) & Th(R) period 5 (11:45 AM – 12:35 PM)

Location: Room FLI 0050

Office Hours:

T & Th(R) 12:45-13:30 PM at SFH 302D (other meetings by email appointments only)

E-Learning Website:

<https://elearning.ufl.edu/> or <https://lss.at.ufl.edu/> (check regularly to find announcements, lecture notes and handouts, exam scores, and other information related to this class)

Textbooks:

Required: Brown, Iverson, Anslyn, and Foote “*Organic Chemistry*” 9th/8th Edition (CENGAGE; e-book ISBN: 9780357710678/9781305580350; or paperback ISBN: 9780357451861/1305580354)

Recommended: Brown, Iverson, Anslyn, and Foote “*Student Study Guide and Solutions Manual, Organic Chemistry*” (CENGAGE; ISBN: 9780357451953), 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: <https://www.bsd.ufl.edu/G1C/bookstore/allaccess.asp> to OPT in and purchase your access code [includes OWLv2 access and e-book].

Textbook Buying Options:

In addition to the UF bookstore and usual on-line booksellers, you can purchase a “bundle” directly from the publisher, which may have a discount.

Reading and Homework Assignments:

Homework assignments are in- and end-of-chapter problems from the textbook, alternatively available through OWL (“electronic” homework) which also includes additional study resources. These problems will not be collected or graded. However, it is the students’ responsibility to work on the problems and read the book chapters, which is essential for being successful in the course and will help you on the exams. **It is highly recommended that you attempt all problems in the textbook.** Learn to use on-line resources – there are also many problems, quizzes, and exams on the internet. Allow at least 2 hours per day to study and read book chapters and work the problems. Use the office hours, and do not wait until the last minute to come to ask for help. The more you read and the more problems you solve, the better you become.

Organic Chemistry Learning Center (OCLC):

There is free help from graduate student teaching assistants in OCLC Monday through Friday (office hours: to be posted at course website) in SFH room 203/205. You may go to OCLC anytime. A schedule of TAs will be posted in the corridor outside OCLC and, also online. Additionally, there is the teaching center

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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>.

Course Objectives and Student Outcomes:

Consider each of these outcomes in terms of your understanding and abilities in Organic Chemistry as they are now at the start of this course. Consider these outcomes periodically throughout the semester. As a result of your studies in CHM 2210, you will demonstrate:

- A positive attitude about studying/learning chemistry;
- Confidence in your ability to analyze and solve chemical problems;
- An understanding of structures, properties, reactions, reaction mechanisms and structure-property relationships of organic compounds;
- Basic knowledge of organic synthesis.

Conduct in the Classroom:

All students are expected to be punctual in their attendance at lectures. If you are a few minutes late for a class, please sit in a seat that does not require you to climb over numerous other students. ***You are expected to be on time for all exams, and extra time will NOT be allocated to any student who arrives late.*** You are expected to be considerate toward your fellow students; it is requested that you do not hold conversations during the class. Any student who persists in talking during lectures will be asked to leave the room. Please turn off cell phones before entering the lecture hall, or you will be asked to leave the room.

Examinations and Grading Policies:

There are three (3) in-classroom 50-min midterm exams (100 pts each) and one final exam (200 pts). The **midterm exams** are given on **February 6**, **March 5**, and **April 9** during the regular class hours. The **final exam** will be on **April 29th** from 7:30 to 9:30 AM in a room TBD by registrar's office. Exams are eligible for regrading. ALL exam regrading inquiries MUST be submitted **in writing** (using any piece of paper) to Dr. Guo detailing your concerns (staple the sheet to the exam and place the exam in Dr. Guo's office or the regrade box in **SFH 302D**) by the student no later than **1 week** from the date that the exams are returned to the class. ***Questions regarding grades/grading are not accepted by e-mail. Please also note*** that once submitted, the **entire exam** will be regraded to ensure accuracy and your score may increase or decrease accordingly. Furthermore, the exams are **randomly photocopied**, and if any modification of an exam is noticed, it will be considered as academic misconduct.

There is no make-up exam for this class. However, each student will be excused from missing **ONE** (1) midterm exam (0 point for the missed exam, probably your exam of lowest score) for any or no reason. No student will be allowed for missing the final exam, **and** no student will be allowed for missing more than one midterm exam. If you have a valid reason **and** have gotten permission from the dean of student office for missing the final exam or missing two or more midterm exams, you will get an incomplete grade, and you will need to take the missed exams with the class next semester to obtain your final letter grade.

Letter grades will be assigned based on the scores of the **best 2 midterm exams** (the lowest one of the three exams – including the missed one – will be dropped) and the **final exam**. For example, if a student gets 90, 85, 0 (the missed exam) and 185 pts for the 4 exams, respectively, his/her final grade percentile will be $(90 + 85 + 185)/400 = 90\%$, giving an "A" letter grade. However, if the calculated letter grade after dropping a midterm exam is worse than that including all 4 exams, no exam will be dropped. For example, if a student gets 90, 85, 90 and 135 pts for the 4 exams, respectively, his/her final grade percentile will be $(90 + 85 + 90 + 135)/500$ [instead of $(90 + 90 + 135)/400$] = 80%, giving a "B+" letter grade. At the instructor's discretion, ***a curve may be applied to the entire class to adjust the grade distribution, which will be determined at the end of the semester.***

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Final letter grade scales:

A	≥90%
A ⁻	<90% but ≥85%;
B ⁺	<85% but ≥80%;
B	<80% but ≥75%;
B ⁻	<75% but ≥70%;
C ⁺	<70% but ≥65%;
C	<65% but ≥60%;
C ⁻	<60% but ≥55%;
D ⁺	<55% but ≥50%;
D	<50% but ≥40%;
E	<40%.

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/ugrad/current/regulations/info/grades.aspx>.
- Lose or find something during class? Visit the Chemistry lost-and-found (Leigh Hall 218).
- **Need to drop this course?** You can do so by logging in to ONE.UF and select "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.
- **Your well-being** is important to UF. 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.
- **Online 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.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email received 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/>.

Copyright Notice:

All handouts used in this course are copyrighted and may not be copied without Dr. Guo's expressly granted permission. "Handouts" include all materials generated for this class. Only students currently enrolled in the class may make a single copy of this material for their personal use.

Student Honor Code:

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

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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.

Information about Recording in Classroom:

- 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.

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 a physical classroom with enough capacity. Please do not move desks or stations and wonder around in classroom.
- Hand-sanitizing stations are placed inside of our classroom. It is a good practice to sanitize your hands before you enter and after your exit the classroom.
- You are can wear face coverings during the classes and within buildings but this is not required.
- Please wipe your desk down with sanitizing wipes prior to sitting down and at the end of the class.
- 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 wear face coverings and practice physical distancing. Therefore, the number of students present at the office may 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).

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Course Schedule (Tentative)

Introduction & Chapter 1. Covalent Bond and Molecular Shapes 4 lectures	Jan. 9, 11, 16
Chapter 2. Alkanes and Cycloalkanes 3 lectures	Jan. 16, 18, 23
Chapter 3. Stereoisomerism and Chirality 4 lectures	Jan. 23, 25, 30
Midterm Exam #1: Feb. 6 (start at 10:40 AM; in classroom, Chapters 1, 2 and 3 only)	
Chapter 4. Acids and Bases 3 lectures	Feb. 1, 8, 13
Chapter 5. Alkenes 3 lectures	Feb. 13, 15, 20
Chapter 6. Reactions of Alkenes 5 lectures	Feb. 20, 22, 27, 29
Midterm Exam #2: March 5 (start at 11:45 AM; in classroom, Chapters 4, 5 and 6 only)	
Chapter 7. Alkynes 2 lectures	March 7, 19
Chapter 8. Haloalkanes, Halogenation and Radical Reactions 3 lectures	March 19, 21, 26
Note: No class on March 11-18, UF spring break	
Chapter 9. Nucleophilic Substitution and β -Elimination 4 lectures	March 26, 28, April 2
Midterm Exam #3: April 9 (start at 10:40 AM; in classroom, Chapters 7, 8, and 9 only)	
Chapter 10. Alcohols 4 lectures	April 4, 11, 16
Chapter 11. Ethers, Sulfides, and Epoxides 3 lectures	April 18, 23
Final Exam (cumulative, all chapters): April 29th (Mon.), 7:30-9:30 AM, Room: to be decided by the registrar's office.	