

UNIVERSITY OF FLORIDA

COURSE SYLLABUS

Chemistry 2211: Organic Chemistry II

Class numbers: 28437 and 28438

Lecture Time and Location:

Section 28437 – M,W,F: period 4 (10:40 AM - 11:30 AM); Room: FLI 0050

Section 28438 – M,W,F: period 5 (11:45 AM - 12:35 PM); Room: FLI 0050

Instructor and Contact Information:

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

Instructor Office Hours:

M,W,F (for both sections): 1:00-2:00 PM online (via Zoom conferences posted at Canvas); f2f meetings are limited and by email appointments (72 hours in advance) only at room CCB 302

E-Learning Website:<https://lss.at.ufl.edu/> (check regularly to find announcements, lecture notes and handouts, exam scores, and other information related to this class)TA Office Hours:Teaching assistant (TA) hours (run as joint sessions) will begin on January 19th via Canvas Zoom conferences ONLY. The schedules and TA names will be posted after the department has finished TA assignments.Textbooks:**Required:** Brown, Iverson, Anslyn, and Foote “*Organic Chemistry*” 8th Edition (Brooks/Cole; ISBN: 1305580354)**Recommended:** Brown, Iverson, Anslyn, and Foote “*Student Study Guide and Solutions Manual, Organic Chemistry*” 8th Edition (Brooks/Cole; ISBN: 1305864506), OWL access, and a *molecular modeling kit*Textbook Buying Options:

In addition to the UF bookstore and usual on-line booksellers, you can purchase a “bundle” directly from the publisher at a substantial savings.

Reading and Homework Assignments:Homework assignments are created based on the lectures and textbook. You will get **5 bonus points** for online submission of each finished homework. There are also many in- and end-of-chapter problems in the textbook. It is highly recommended to attempt all of these problems, although they will not be collected or graded. 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. OWL (“electronic” homework) includes additional study resources. Learn to use on-line resources—there are also many problems, quizzes, and exams on the

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internet. Allow at least 2 hours per day to study and read book chapters and work on the problems. Use the office hours wisely, 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.

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 2211, 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, and structure-property relationships of organometallic compounds, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives, dienes, conjugated systems, aromatic compounds, and amines;
- A 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 other students and can meet the requirement of physical distancing. ***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, and 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 50-min midterm exams (100 pts each) and one final exam (200 pts) (all in-person exams). The **midterm exams** are given on **Feb. 10**, **March 5**, and **April 5** (time and locations to be finalized; refer to class schedule for details). The **final exam** will be on **April 24** from 8:00 to 10:00 PM and the locations will be finalized later on. The final exam time may subject to change, determined by the registrar's office (if so, it will be announced in advance). Exams are eligible for regrading. All exam regrading requests **MUST** be submitted **in writing** to Prof. Guo detailing your concerns (on plain paper and staple the sheet to the exam and place the exam in the regrade box in Prof. Guo's office in CCB 302) no later than **1 week** from the date that the exams are returned. ***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 (to get 0 point for the missed exam) 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. In the event that you have valid reasons **and** have got permission from the dean of student office for missing the final exam or missing two or three 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 **final exam, two best midterm exams** (thus the lowest one of the three exams, such as the missed one, will be dropped), and **all of the bonus points**. For example, if a student gets 90, 60, 0 (missed exam), and 178 pts for the exams and all 12 bonus pts, his/her final grade

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percentile will be $(90 + 60 + 178 + 12)/400 = 85\%$, which yields an “A-” letter grade. For another example, if a student gets 90, 80, 70, and 180 pts for the exams and 10 bonus pts, his/her final grade percentile will be $(90 + 80 + 180 + 10)/400 = 90\%$, which yields an “A” letter grade. A unique scenario is: if your percentile is higher without the drop of a midterm exam (*e.g.*, due to a poor final exam score), I will not drop any of your midterm exams, so that you can get the highest letter grade possible. At Prof. Guo’s discretion, a curve may be applied to adjust grade distributions, which will be determined at the end of the semester.

Grade Scales: A $\geq 90\%$
A- $< 90\%$ but $\geq 85\%$;
B+ $< 85\%$ but $\geq 80\%$;
B $< 80\%$ but $\geq 75\%$;
B- $< 75\%$ but $\geq 70\%$;
C- $< 70\%$ but $\geq 65\%$;
C $< 65\%$ but $\geq 60\%$;
C+ $< 60\%$ but $\geq 55\%$;
D $< 55\%$ but $\geq 45\%$;
E $< 45\%$.

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 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) 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.

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 to maintain an 8-foot radius between students. The first sitting row is spaced at least 10 feet from the area where I will present. Please do not move desks or stations and do not wonder around in the classroom.
- Hand-sanitizing stations are placed outside of our classroom. Please sanitize your hands before you enter and after your exit the classroom.
- You are required to wear approved face coverings **at all times** during class and within buildings.

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- 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 (6 feet) 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.
 - Lecture materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>). Following and enforcing these policies and requirements are all of our responsibility. Failure to do so may lead to your removal from the classroom and a report to the Office of Student Conduct and Conflict Resolution.
- During the office hours, you are required to wear approved face coverings **at all times** and practice physical distancing (6 feet). Thus, 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 the office hours are possible but by email appointment only (at least 2 days in advance).

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 help dropping this class? Contact a Chemistry undergraduate advisor here: <https://www.chem.ufl.edu/undergraduate/academic-advisors/>.
- 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.
- **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 they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of the course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

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Chemistry 2211: Organic Chemistry II
Course Schedule (Tentative)

Syllabus & Introduction (the only online class meeting)	Jan. 11
Chapter 15. Organometallic Compounds 3 lectures	Jan. 13, 15, 20
Chapter 16. Aldehydes and Ketones 5 lectures	Jan. 22, 25, 27, 29; Feb. 1
Chapter 17. Carboxylic Acids 2 lectures	Feb. 5, 8
Note: No class on Feb. 3 (NIH study section)	
Midterm Exam #1: Feb. 10 (Chapters 15, 16 and 17 only)*	
Chapter 18. Derivatives of Carboxylic Acids 5 lectures	Feb. 12, 15, 17, 19, 22
Chapter 19. Enolate Anions and Enamines 4 lectures	Feb. 24, 26, March 1, 3
Midterm Exam #2: March 5 (Chapters 18 and 19 only)*	
Chapter 20. Dienes, Conjugated Systems, and Pericyclic Reactions 4 lectures	March 8, 10, 12, 15
Chapter 21. Benzene and the Concept of Aromaticity 4 lectures	March 17, 19, 22, 24
Chapter 22. Reactions of Benzene and Its Derivatives 4 lectures	March 26, 29, 31, April 2
Midterm Exam #3: April 5 (Chapters 20, 21, and 22 only)*	
Chapter 23. Amines 3 lectures	April 7, 9, 12
Chapter 24. Catalytic Carbon-Carbon Bond Formation 3 lectures	April 14, 16, 19
Note: April 5-16 is ACS meeting week; class meeting time for Chapters 23 and 24 may subject to change.	
End of Semester Review	April 21

Final Exam: April 24th (Sat.), 8:00-10:00 PM[†]

* Both sections will take the midterm exams at the same time. The official exam time is 50 min, but to allow for more time to take these exams, I plan to have them at 8:10–9:40PM on the identified dates in FLI50 (for section 28437) and CLB130 (for section 28438). I have requested these rooms three weeks ago but have not received confirmation yet, thus I will make additional announcements about the issue later. No student will be allowed to take the exams after 8:30PM or leave the exam room before 8:40PM.

[†]The locations are not finalized yet, as in addition to FLI50, I have also requested CLB130 for the final exam. Once the request is confirmed or if there is any change, I will let everyone know immediately.