

## UNIVERSITY OF FLORIDA

COURSE SYLLABUS**Chemistry 2211: Organic Chemistry II (Section 8421)****Lecture Time and Location:**

Tuesday: period 7-8 (1:55 - 3:50 PM) and Thursday: period 8 (3:00-3:50 PM); Room: FLI 0050

**Instructor and Contact Info:**

Professor Zhongwu Guo; Office: Sisler 428A; telephone: 352-392-9133; e-mail: zguo@chem.ufl.edu

**Office Hours:**

Tuesday and Thursday 4:00-5:00 PM at Sisler 428

**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:**

Graduate teaching assistants (TAs) will be available in Keene-Flint 258, the Organic Chemistry Learning Center (OCLC), from 9 AM– 4 PM, Monday to Friday.

**Textbooks:**

**Required:** Brown, Iverson, Anslyn, and Foote “*Organic Chemistry*” 7<sup>th</sup> Edition (Brooks/Cole; ISBN: 1133952844) -

**Recommended:** Brown, Iverson, Anslyn, and Foote “*Student Study Guide and Solutions Manual, Organic Chemistry*” 7<sup>th</sup> Edition (Brooks/Cole; ISBN: 1285052617), 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: <http://www.cengagebrain.com/course/1486367>

**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 to 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.

**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;

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- 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 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 **Feb. 2**, **Feb. 23**, and **March 30** during the regular class hours. The **final exam** will be on **April 26** from 7:30 to 9:30 AM at Rm. FLI 0050 (tentative), which will be finally decided by the registrar's office. Exams are eligible for regrading. All exam grading inquiries must be submitted in writing to Dr. Guo detailing your concerns (staple the sheet to the exam and place the exam in the regrade box in **Sisler Hall 428A**) 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.* **Please note** that once submitted, the **entire exam** will be regraded to ensure accuracy and your score may increase or decrease accordingly. Moreover, 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 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 **two best 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, 60, 0 (missed exam), and 190 pts for the 4 exams, respectively, his/her final grade percentile will be  $(90 + 60 + 190) / 400 = 85\%$ , which gives an "A-" letter grade. For another example, if a student gets 90, 80, 70, and 190 pts for the 4 exams, respectively, his/her final grade percentile will be  $(90 + 80 + 190) / 400 = 90\%$ , which give an "A" 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.

**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  $< 45\%$ .

**UNIVERSITY OF FLORIDA****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](mailto: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 feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/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 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.***

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## Chemistry 2211: Organic Chemistry II (Section 8421)

## Course Schedule (Tentative)

Introduction and Chapter 15. Organometallic Compounds  
3 lectures

Jan. 5, 10

Chapter 16. Aldehydes and Ketones  
4 lectures

Jan. 12, 17, 19

Chapter 17. Carboxylic Acids  
3 lectures

Jan. 24, 26

**Midterm Exam #1: Feb. 2** (in classroom, Chapters 15, 16, and 17)

Chapter 18. Derivatives of Carboxylic Acids  
5 lectures

Jan. 31, Feb. 7, 9

Chapter 19. Enolate Anions and Enamines  
5 lectures

Feb. 14, 16, 21

**Midterm Exam #2: Feb. 23** (in classroom, Chapters 18 and 19)

Chapter 20. Dienes, Conjugated Systems, and Pericyclic Reactions  
5 lectures

Feb. 28, March 2, 14

**(Note: No class on March 6-10, UF spring break)**

Chapter 21. Benzene and the Concept of Aromaticity  
3 lectures

March 16, 21

Chapter 22. Reactions of Benzene and Its Derivatives  
3 lectures

March 23, 28

**Midterm Exam #3: March 30** (in classroom, Chapters 20, 21, and 22)

**(Note: No class on April 4 and 6 – review days)**

Chapter 23. Amines  
3 lectures

April 11, 13

Chapter 24. Catalytic Carbon-Carbon Bond Formation  
2 lectures

April 18

**Final Exam: April 26th, 7:30-9:30 AM, Room: FLI 0050** (to be finalized by the registrar's office)