
Instructor: Prof. Steve Bruner bruner@ufl.edu Office: SFH 302E

Office hours: Wed. 9-10am (SFH302E)

only message Prof. Bruner through CANVAS

Course objectives: This course is the second half of the CHM2210/CHM2211 sequence intended for majors and pre-professional students. This semester we will focus on the structures, syntheses and reactions of organic compounds, covering aspects of spectroscopy, functional groups and reactivity of aromatic rings and olefin containing compounds. The prerequisites for this course are CHM 2210 or the equivalent with a minimum grade of C (2.0).

Recommended:

Textbook: Organic Chemistry, 4th Edition, David Klein, 4th edition. This textbook is available as a hard-copy, loose-leaf, or e-text (ISBN: 978-1-119-77674-1).

Study Guide: Organic Chemistry, 4e Student Solution Manual and Study Guide, David R. Klein (ISBN: 978-1-119-65952-5), The online [WileyPlus](#) Organic Chemistry Klein program is also useful and recommended.

A molecular model set is recommended. Several are commercially available

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.

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 recommended for this course. A student's computer configuration should include: 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.

Course UGTAs: Undergraduate teaching assistants (UGTA) will host weekly supplementary instruction sessions. A schedule will be posted to Canvas. The Organic Chemistry Learning Center (OCLC) is also available and a good resource.

Office hour schedules are subject to change.

Course grading:

3/4 Progress Exams	60%
Final Exam	25 %
Submitted Practice Problems	10 %
Participation	5 %
 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 and/or policy at any point during the semester.

Grades will be assigned in accordance with [University policy](#).

Progress Exams: There will be four (4) progress exams given during class time. Progress exams will be cumulative but will emphasize material covered following the previous exam. The lowest score of the progress 4 exams will be dropped. Exam dates are listed in the course schedules at the end of this syllabus.

Final Exam: A cumulative final exam will be given on Monday, April 28, 2025 (5:30 PM–7:30 PM). *Please bring and display your Gator1 Student ID card for all exams.*

Exam Regrades: Exams will be scanned and subsequently graded using the Gradescope platform. If you believe that you have found a grading error, you will be able to submit regrade requests for individual exam questions in Gradescope within a week of the respective exam scores being posted to Canvas. Questions regarding grades/grading are not accepted by email or Canvas message. The regrade request period for the final exam may be shortened; details will be communicated to the class. Exams submitted for regrading will be reviewed to ensure accuracy in their entirety.

Exam Absence Policy: The lowest progress exam score will be dropped and missed exams will be counted as the dropped exam. This includes unpredicted absences due to medical or sudden family emergencies. In the event of 2 or more conflicts, make-up exams will be administered in accordance with the [University policy](#). 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 makeup exam provided that the conflict is a) properly documented and b) disclosed to the instructor **at least one week before** the scheduled exam.

Practice Problems and Participation: Online submission of assigned practice problems will be scored based on completion. Additional practice problems will be regularly assigned from the questions at the end of each textbook chapter and posted instructor worksheets. Participation will be scored based on in-class questions using the iClicker format and app.

Understanding a given solution 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.

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/get-started>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodations. It is the responsibility of the student to adhere to the DRC's deadlines when submitting accommodated test requests (ATRs) in order to receive testing accommodations.

Campus resources:

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care [website](#) to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the Counseling and Wellness Center [website](#) or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center [website](#).

University Police Department: Visit UF Police Department [website](#) or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center [website](#).

GatorWell Health Promotion Services: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the GatorWell [website](#) or call 352-273-4450.

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 University’s honesty policy regarding cheating, plagiarism, etc. 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.” The Conduct Code specifies a number of behaviors that are in violation of this code and the possible sanctions. See the UF Conduct Code [website](#) for more information. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Tentative class schedule

Tuesday	1/14		Course intro, review of 2210
Thursday	1/16	Chapt 15	Nuclear magnetic spectroscopy
Tuesday	1/21	Chapt 15	Nuclear magnetic spectroscopy
Thursday	1/23	Chapt 12/23	Organometallic compounds
Tuesday	1/28	Chapt 12/23	Organometallic compounds
Thursday	1/30	Chapt 16	Pericyclic reactions
Tuesday	2/4	Chapt 16	Pericyclic reactions
Thursday	2/6	EXAM 1	
Tuesday	2/11	Chapt 17	Aromaticity
Thursday	2/13	Chapt 17	Aromaticity
Tuesday	2/18	Chapt 18	Electrophilic aromatic substitutions
Thursday	2/20	Chapt 18	Electrophilic aromatic substitutions
Tuesday	2/25	Chapt 19	Aldehydes and ketones
Thursday	2/27	EXAM 2	
Thursday	3/2	Chapt 19	Aldehydes and ketones
Tuesday	3/4	Chapt 20	Carboxylic acids
Tuesday	3/11	Chapt 20	Carboxylic acids
Thursday	3/13	Chapt 20	Reactions of carboxylic acids
Tuesday	3/18	NO CLASS	
Thursday	3/20	NO CLASS	
Tuesday	3/25	Chapt 20	Reactions of carboxylic acids
Thursday	3/27	EXAM 3	
Tuesday	4/1	Chapt 20	Reactions of carboxylic acids
Thursday	4/3	Chapt 21	Enolates and enamines
Tuesday	4/8	Chapt 21	Enolates and enamines
Thursday	4/10	Chapt 25	Amino acids, peptides
Tuesday	4/15		Nucleic acids
Thursday	4/17	EXAM 4	
		course	
Tuesday	4/22	review	