Organic Chemistry II Fall 2024
CHM2211 class 11004 MWF 9:35-10:25 Flint 050

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

Office hours: Th 9-10am.

***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).

Required: ALEKS for Organic Chemistry 2 (McGraw-Hill) – see Canvas for details before purchasing.

Recommended:

Textbook: Brown, Iverson, Anslyn and Foote, Organic Chemistry, 8th Edition (physical copy or eBook, Cengage Learning; ISBN: 978-1305580350).

Study Guide: Iverson, Organic Chemistry, Student Study Guide and Solutions Manual, 8th Edition (Cengage Learning, ISBN: 978-1305864504).

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, which will provide access to the ALEKS homework platform. Instructions will also be posted to Canvas.

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.

Recording Notice: Class meetings may be audio-visually recorded. Recordings will generally

capture the lecture board and view of the instructor podium. Students who step into this space consent to being audio-visually recorded; students who participate orally are agreeing to have their voices recorded.

Course grading:

4 Progress Exams	68% (17 % each)
Final Exam	20 %
ALEKS modules	10 %
ALEKS pie score	2 %
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 at any point during the semester.

Grades will be assigned in accordance with University policy.

ALEKS: You will complete weekly adaptive assignments (modules) whose goal is to help you master the course content (10% weight; all modules are weighted equally). Module due dates are generally Wednesdays (with 2 exceptions) starting the third week of classes. Additionally, your overall ALEKS (pie) score will account for 2% of your grade. Your ALEKS pie score is the percentage of assigned ALEKS topics you have learned or mastered.

Progress Exams: There will be four (4) 100-point progress exams given on campus in assembly (8:20 PM–9:50 PM). Progress exams will be cumulative but will emphasize material covered following the previous exam. Exam dates are listed in the course schedules at the end of this syllabus.

Final Exam: A cumulative final exam will be given on Saturday, December 7, 2024 (3:00 PM–5:00 AM).

Please bring and display your Gator1 Student ID card for 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.

Exam Absence Policy: This course administers all conflicts with scheduled exams in accord 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.

Unpredicted Absences due to medical or sudden family emergencies are not covered under the above conflict exam policy. A student who is absent for an exam due to one of the reasons listed above must contact the instructor as soon as they are able, and must submit documentation to the Dean of Students Office. Once the instructor is satisfied with the validity of the documentation, a make-up exam will be scheduled after a reasonable amount of time, i.e., before the end of the semester. If the student's documentation is deemed insufficient to excuse the absence, a score of *zero* will be assigned for the missed exam. Exams missed without any documentation will be assigned a score of *zero*.

Practice Problems: Practice problems will be assigned from the questions at the end of each chapter (EOC) and instructor worksheets. These homework assignments will not be collected or graded. However, completion and understanding of the practice problems will be of critical importance to succeeding in this course. Do not turn to the solutions manual immediately! 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.

Friday	8/23		Course intro, review of key 2210 material
Monday	8/26	Chapt 13	Nuclear magnetic spectroscopy
Wednesday	8/28	Chapt 13	Nuclear magnetic spectroscopy
Friday	8/30	Chapt 13	Nuclear magnetic spectroscopy
Monday	9/2	NO CLASS	
Wednesday	9/4	Chapt 12	IR spectroscopy
Friday	9/6	Chapt 15	Organometallic compounds
Monday	9/9	Chapt 15	Organometallic compounds
Wednesday	9/11	EXAM 1	
Friday	9/13	Chapt 16	Aldehydes and ketones
Monday	9/16	Chapt 16	Aldehydes and ketones
Wednesday	9/18	Chapt 16	Aldehydes and ketones
Friday	9/20	Chapt 17	Carboxylic acids
Monday	9/23	Chapt 17	Carboxylic acids
Wednesday	9/25	Chapt 17	Carboxylic acids
Friday	9/27	Chapt 18	Carboxylic acid derivatives
Monday	9/30	Chapt 18	Carboxylic acid derivatives
Wednesday	10/2	Chapt 18	Carboxylic acid derivatives
Friday	10/4	Chapt 18	Carboxylic acid derivatives
Monday	10/7	EXAM 2	
Wednesday	10/9	Chapt 18	Carboxylic acid derivatives
Friday	10/11	Chapt 18	Carboxylic acid derivatives
Monday	10/14	Chapt 19	Enolates and enamines
Wednesday	10/16	Chapt 19	Enolates and enamines
Friday	10/18	NO CLASS	
Monday	10/21	Chapt 19	Enolates and enamines
Wednesday	10/23	Chapt 19	Enolates and enamines
Friday	10/25	Chapt 19	Enolates and enamines
Monday	10/28	Chapt 19	Enolates and enamines
Wednesday	10/31	EXAM 3	
Friday	11/1	Chapt 20	Pericyclic reactions
Monday	11/4	Chapt 20	Pericyclic reactions
Wednesday	11/6	Chapt 20	Pericyclic reactions
Friday	11/8	Chapt 21	Aromaticity
Monday	11/11	Chapt 21	Aromaticity
Wednesday	11/13	Chapt 22	Electrophilic aromatic substitutions
Friday	11/15	Chapt 22	Electrophilic aromatic substitutions
Monday	11/18	Chapt 22	Electrophilic aromatic substitutions
Wednesday	11/20	Chapt 22	Electrophilic aromatic substitutions
Friday	11/22	EXAM 4	
Monday	11/25	NO CLASS	
Wednesday	11/27	NO CLASS	
Friday	11/29	NO CLASS	
Monday	12/2	Chapt 23	Amines
Wednesday	12/4	Chapt 23	Amines
Friday	12/6	NO CLASS	
Saturday	12/7	FINAL EXAM (3:00 - 5:00pm)	