Organic Chemistry II for Majors  
Spring, 2021

**Instructor:** Professor Chris Pigge  
Office: E557 CB

**Email:** chris-pigge@uiowa.edu (please include "4:2240" in the subject line)

**Teaching Assistant:** Grant Shivers

**Course Modality:** This course is being offered in the traditional format with three face-to-face (F2F) lectures per week and in-person midterm and final exams. If you want to take Org. Chem. II in a completely online format, then you should register for Chem. 2220 (Org. Chem. II for Non-Majors – content largely the same but different text).

**Web Site:** Online content for the course will be managed using the ICON (Iowa Courses Online) (http://icon.uiowa.edu/index.shtml). The site will be used to post copies of the slides used in class, as well as practice exams, exam keys, lists of suggested text problems, and occasional announcements.


**Optional Materials:** An optional study guide is available which contains answers to problems from the text. Students may also want to obtain a set of molecular models. The models are very useful in helping to visualize the 3D-structures of organic compounds. However, such models cannot be used during exams. Online supplementary instructional materials are also available from the publisher (Wiley). You may find these online materials helpful, but their use is not required and no web-based homework will be assigned.

**Course Notes:** Copies of the Powerpoint slides used in class will be made available on the course web site as PDF files. These notes are intended to be helpful - not to alleviate the need for attending class. Effort will be made to post these notes at least three days before each class, if not sooner. They are most useful if you look them over before class, and then add highlights or further notes during lecture.

**Lectures:** MWF, 9:30-10:20 AM in W55 CB

The Wednesday 6:30-8:00 PM slot is reserved in your schedule primarily for the three mid-term exam dates - no other class meetings are planned for that time period. However, if a class has to be cancelled due to some unexpected circumstance, a make-up lecture could be scheduled during one of these available 6:30 PM time slots. Advance notice will be given in class if this becomes necessary. Also, please note that optional review sessions will be held in lieu of the regularly scheduled lecture on exam dates.

**Drop-In Zoom Office Hours:** Mondays 2:30 pm-4:00 pm, Tuesdays 10:30 am-12:00 noon, Wednesdays, 1:00 pm-2:30 pm.

Virtual office hours seemed to work well last semester and offer some level of convenience. Zoom links for office hours are in ICON. Questions can be answered during class, immediately after class (if permitted by time between classes), during discussions, or during office hours. If a meeting is needed outside of these times, please make an appointment. The TA (Grant) will announce his office hours at your first discussion section meeting.
Student Rights and Responsibilities: For UI policies on academic misconduct, plagiarism and cheating, forgery, student complaints concerning faculty actions, and procedures for complaints, see the Student Academic Handbook: http://www.clas.uiowa.edu/students/academic_handbook.

Exams: There will be three regular mid-term exams and a final. Each regular exam will be given on a Wednesday at 6:30 PM and will last 90 minutes. The dates of these exams are listed below. All mid-term exams will be held in W128 CB. The final exam will be held during the UI-scheduled time (to be announced - TBA) and will last two hours. Room assignments for all exams will be announced in class and on ICON as soon as they become available. All exams will be comprehensive since understanding of material encountered later in the course will require application of concepts learned previously. However, each regular exam will focus mainly on material covered since the previous exam. Announcements will be made in class regarding the material to be covered on each exam. Generally, topics to be covered on a mid-term exam will conclude with the material presented on the Monday before the exam. Some class time prior to exams will be used as a review session.

All exams will be closed-book. Prior to the start of each exam, all extraneous materials (e.g., models, notebooks, papers, backpacks, etc.) should be left at home or brought to the front of the room. Calculators should not be needed. The use of any other electronic devices during exams is strictly prohibited. The exams will include some short-answer type questions wherein you will need to write out answers and/or draw appropriate chemical structures in spaces provided on the exam itself. All exams must be written in ink, but not red ink. Exams written in pencil or in red or erasable ink, or those on which “white-out” has been used, cannot be regraded. Exams will be graded and returned (through the Chemistry Center, E225 CB) as soon as possible. Exam results and answers will be posted on the course web site via ICON.

Exam Schedule: (W128 CB)
Exam 1: Wednesday, Feb. 24: 6:30 – 8:00 PM    Exam 3: Wednesday, April 28: 6:30 – 8:00 PM
Exam 2: Wednesday, March 31: 6:30 – 8:00 PM    Final Exam: TBA

IMPORTANT Midterm scheduling conflicts between courses do occur and it is your responsibility to review your exam schedule and report conflicts early in the semester. Specific policies regarding midterm conflicts can be found here: https://registrar.uiowa.edu/midterm-exam-policies.

Regrades: If you feel that a mistake has been made in grading your exam, you should first bring the issue to my attention and then, if warranted, you may turn it in at the Chemistry Center (E225 CB) for regrading. Write on the front of the exam the number of the question to be checked and an explanation (in one sentence or less) of what you believe was done incorrectly. The entire exam will be reviewed - if points were incorrectly awarded, the corresponding score change will also be made. Regrade requests must be submitted within one week of the time the graded exams are made available to you (within 24 hours for the final exam). No regrades will be possible after that time. Please note that this procedure is intended to apply to situations where your answer matches the answer posted on the key, but was misgraded, or an arithmetic error was made when totaling your score. If you disagree with an answer on the key, please discuss the issue with me during office hours.

Make-up Exams: Permission to take a make-up exam will require a valid, written excuse (e.g., from student health services). With respect to COVID, completion and submission of a student self-report form constitutes a valid excuse. If you miss a regular exam, you must take the make-up, which will be arranged as needed. Under no circumstances will a make-up exam be given to replace a regular exam taken earlier.
COVID Policies:

Class Behavioral Expectations
Students are expected to comply with University policies regarding appropriate classroom behavior as outlined in the Code of Student Life. This includes the policies and procedures that all students have agreed to regarding the Steps Forward for Fall 2020 in response to the COVID-19 pandemic. Particularly, all students are required to wear a face covering when in a UI building, including a classroom. In addition, the density of seats in classrooms has been reduced. In some instances, this will allow 6 feet or more of distance while in other cases, it may be less. Regardless, wearing a face covering and maintaining as much distance as possible are vital to slowing the spread of COVID-19. In the event that a student disrupts the classroom environment through the failure to comply with the reasonable directive of an instructor or the University, the instructor has the authority to ask that the student immediately leave the space for the remainder of the class period. Additionally, the instructor is asked to report serious or repeated incidents to the Office of Student Accountability for the possibility of additional follow-up.

Class Recordings: Privacy and Sharing
Some of the sessions of a course could be recorded or live-streamed. Such recordings/streaming will only be available to students registered for this class. These recordings are the intellectual property of the faculty, and they may not be shared or reproduced without the explicit, written consent of the faculty member. Further, students may not share these sessions with those not in the class or upload them to any other online environment. Doing so would be a breach of the Code of Student Conduct, and, in some cases, a violation of the Federal Education Rights and Privacy Act (FERPA).

Course Grades: Grades will be based on performance on the three regular exams (300 points) and the final exam (150 points). Total points possible = 450. No scores will be dropped in calculating the final grade for the course, and everyone must take the final exam. No letter grades (A, B, C grades) will be assigned for midterm exams, but an approximate curve for each exam will be provided during class so that students will know where they stand grade-wise. At the end of the semester, exam scores of each student will be tallied, and the resulting sum will be fitted to a standard curve in order to assign final grades. The grading curve will be based strictly on the class performance of this semester. College guidelines will be followed as closely as possible in establishing the final grade distribution, and +/- grading will be used for final grades.

Drop-Add Slips: Drop/add signatures for this course must be obtained from staff in the Chemistry Center (E225 CB), not from me. Please note that the deadline this semester for undergraduate students to drop a course is Friday, April 2. The last day to drop without receiving a “W” is Friday, February 5.

Discussion Sections: There will be 3 discussion sections per week conducted by the TA. Times and places are listed on MyUI. Since 004:2240 is only a three-credit course, attendance at these sessions is not required, however, they are intended for your benefit. These are essentially "help sessions" that provide opportunities to ask questions about lecture material, problems from the text, practice exam questions, etc. in a smaller group setting. You may attend more than one if you like.

Other Course Information: Inquiries about exam times and places, times and places of discussion sessions, TA office hours, etc. should be taken to the Chemistry Center (E225 CB; 335-1341). This course is being offered by the College of Liberal Arts and Sciences. Thus, class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the College. These policies are summarized on the last page of this syllabus and can be found at: http://www.clas.uiowa.edu/faculty/teaching/policies.shtml. Students wishing to add or drop this course after
the official deadline must receive the approval of the Dean of the College of Liberal Arts and Sciences. Details of the University policy on cross-college enrollments may be found at: http://www.uiowa.edu/~provost/deos/crossenroll.doc.

**Public Health:** If you are feeling ill, then stay home and contact an appropriate health service provider.

**Special Needs:** The instructors need to hear from anyone who has a disability that may require some modification of seating or other class requirements so that appropriate arrangements may be made. Students who require alternative testing arrangements should see Trent Tappan in the Chemistry Center (E225 CB, 5-1341) to schedule their exams. The Student Disability Services (SDS) office is located in 3015 Burge Hall (335-1462, sds-info@uiowa.edu).

**Course Outline:** The material to be covered this semester is summarized in the table below. Any changes will be announced in class. Note that we will pick up where Org. I for Majors left off and directly follow the sequence in the textbook, beginning with Chapter 13.

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Some Study Suggestions for Organic Chemistry

- A major difference between organic and general chemistry is that there is little or no math involved in introductory organic chemistry courses - topics tend to be presented in a very qualitative way. Thus, you will be most successful in this course if you strive to understand the concepts presented, how they relate to one another, and how they can be applied to new situations that you encounter.

- Another difference is that the exams in organic chemistry are only partially constructed in a multiple choice format - some problems will require you to draw chemical structures, to show details of a process, to write correct terms, etc. To prepare for exams, it is important to become proficient in applying the principles covered, and in understanding and drawing chemical structures. Practice with questions in the textbook, and check your answers in the study guide. Practice writing the answers to problems, especially those that ask you to draw structures. Even if you understand the material, you may find yourself short on time in exams if you have not become proficient in drawing and visualizing chemical structures. Finally, be sure to take the practice exams that will be provided for you before each regular exam. These exams will look much like the regular exams and will be of similar length, so if you take them seriously and impose a time limit on yourself, you can get a feel for the time it will take you to finish the actual exam. Check your answers with the key, and investigate the ones you get wrong. Suggested problems from the text and practice exams are not graded assignments, and you should feel free to collaborate with others in studying this material.

- We are required to cover a lot of new material in this course, so it is critical to keep up with the chapter reading and problems. Unfortunately, if you fall behind, it will be very difficult to catch up. This is not the type of course in which you can cram the night before an exam and expect to do well - ask anyone you know who has taken organic chemistry.

- Many students use the course notes as a core resource for learning the material, with the textbook serving as a supplement/reference that offers additional detail and provides relevant problems to work. Molecular models can be very useful in helping to learn and understand structural organic chemistry concepts. However, building models can be time consuming, and you cannot use them during tests.

  Come to class. The availability of course notes leads to a natural temptation to skip class. The notes are intended to help you learn, and to enable you to listen in class and make a few extra notes of your own, rather than focus on frantically copying everything. However, they are incomplete without the explanations, emphasis, model demonstrations, and highlighting that will be provided during class. There are many concepts in this course that are truly new to most people, and it is unlikely that you can simply read the notes or the book and understand everything (or be sure what your instructor considers most important…). Most students find that more explanation of this material is needed - not less.

- Take advantage of discussion sections. Because this is a three-semester-hour course, discussion sections in this course are optional, and no graded materials will arise from them. These discussions are essentially weekly help sessions for you. Attendance in discussion sections tends to rise considerably right before exams, but, unfortunately, they cannot magically catch you up in one sitting. On the other hand, for those who attend regularly, these sessions offer an opportunity for getting additional help and concept reinforcement in a smaller, less formal class setting. They may also facilitate formation of study groups with other class members.

- Take advantage of office hours offered by me and the TAs.
Collegiate Policies & Procedures

The following policy and procedural statements have been summarized from the web pages of the College of Liberal Arts and Sciences and The University of Iowa Operations Manual.

Administrative Home
The College of Liberal Arts and Sciences (CLAS) is the administrative home of this course and governs its add/drop deadlines, the second-grade-only option, and other policies. These policies vary by college (https://clas.uiowa.edu/students/handbook).

Electronic Communication
Students are responsible for official correspondences sent to their UI email address (uiowa.edu) and must use this address for all communication within UI (Operations Manual, III.15.2).

Accommodations for Disabilities
UI is committed to an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as mental health, attention, learning, vision, and physical or health-related condition) by registering with Student Disability Services (SDS). The student should then discuss accommodations with the course instructor (https://sds.studentlife.uiowa.edu/).

Nondiscrimination in the Classroom
UI is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University’s Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity at diversity@uiowa.edu or diversity.uiowa.edu.

Academic Integrity
All undergraduates enrolled in courses offered by CLAS have, in essence, agreed to the College's Code of Academic Honesty. Misconduct is reported to the College, resulting in suspension or other sanctions, with sanctions communicated with the student through the UI email address.

CLAS Final Examination Policies
The final exam schedule for each semester is announced around the fifth week of classes; students are responsible for knowing the date, time, and place of a final exam. Students should not make travel plans until knowing this final exam information. No exams of any kind are allowed the week before finals. (https://clas.uiowa.edu/faculty/teaching-policies-resources-examination-policies.)

Making a Complaint
Students with a complaint should first visit with the instructor or course supervisor and then with the departmental executive officer (DEO), also known as the Chair. Students may then bring the concern to CLAS (https://clas.uiowa.edu/students/handbook/student-rights-responsibilities).

Understanding Sexual Harassment
Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community must uphold the UI mission and contribute to a safe environment that enhances learning. Incidents of sexual harassment must be reported immediately. For assistance, definitions, and the full University policy, see https://osmrc.uiowa.edu/.