CHEM:2220 ORGANIC CHEMISTRY II SPRING, 2020

INSTRUCTOR: Dr. Rebecca Laird; Office W341 CB; rebecca-laird@uiowa.edu;


OPTIONAL MATERIALS: A "Student Study Guide/Solutions Manual" for the textbook is also available which contains answers to the problems in the text. The bookstore offers model kits and I strongly suggest purchasing one. It will greatly help you to “see” organic molecules in three-dimensions.

LECTURE: Lecture: MWF 9:30-10:20 in W290 CB

WEB SITE: Online content for the course will be managed using the ICON (Iowa Courses Online) system (http://icon.uiowa.edu/index.shtml). The site will be used to post copies of the slides used in class, practice exams, exam keys, and announcements.

OFFICE HOURS: Mon. 11:30-1:00 pm in W341 CB

COURSE DESCRIPTION: This course is intended for science majors (botany, biology, microbiology, or chemistry), pre-pharmacy, pre-medical, pre-dental, or pre-veterinary students, or anyone planning to take two years of chemistry. This course is the beginning of a two-semester series. It is organized around the concepts of: hybridization and orbital theory, understanding molecular three-dimensionality, functional groups, and reactivity. Methods for establishing the structure of organic compounds are presented, with an emphasis on NMR and IR spectroscopy and mass spectrometry. There are three lectures each week by the professor and a number of discussions sections lead by a TA.

COURSE GRADES: The maximum possible score is 450 points, 100 points apiece for each hour exam, 100 points for the final, and 50 points for participation questionnaires. The College of Liberal Arts and Sciences suggests the use of a Criterion-Referenced grading scheme. Your test scores will be posted on ICON. The grade ranges are given below:

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<td>A+</td>
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EXAM SCHEDULE: Exams dates, times and places are given below.

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<tr>
<th>Exam</th>
<th>Date</th>
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<tbody>
<tr>
<td>1</td>
<td>Feb. 19</td>
<td>8:45-10:15 pm</td>
<td>MH AUD</td>
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<tr>
<td>2</td>
<td>April 1</td>
<td>8:45-10:15 pm</td>
<td>MH AUD</td>
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<tr>
<td>3</td>
<td>April 29</td>
<td>8:45-10:15 pm</td>
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<td>Final</td>
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EXAMINATIONS: Exams are closed-book. Leave textbooks, notes, etc., at home or in the front of the room before the start of the exam. No electronic devices are allowed during exams, including cell phones. There will be three exams of 90 minutes each and a 120 minute final. The three in class exams must be written in ink, but not red or erasable ink. Exams on which white-out was used or which were written in pencil, red or erasable ink will not be regraded. Exams will be graded and returned through the Chemistry Center (E225 CB) as soon as possible. Note: I will not respond to emails nor hold meetings regarding exam material/questions beginning 24 hours prior to exams.

In place of homework, I will provide a list of suggested book problems for exam chapter. These problems will not be collected or graded as homework; however, I guarantee at least 40% of the points on each in class exam will come from these suggested problems.

Each exam is comprehensive but will emphasize material since the previous exam. Organic chemistry builds on what was learned before, it is important to continually add to your fountain of knowledge. Exams must touch on material that was learned earlier in the semester, but in most instances we will use concepts that we covered since the previous exam. It is wise to review all of the material since Day 1 for each exam.

Anything that is covered through the end of class on the day before the exam is fair game for the exam. I more or less follow the book, so you will be able to determine where we stopped before the exam. If you have any doubt, study for the whole chapter that we are working on.

The final exam will be ACS Organic Chemistry Standardized Exam for a two-semester course. The exam will be graded using the percentile rank from the student’s raw score, where the percentile rank becomes the score out of 100.

MAKE-UP EXAMS: Make-up exams will be given under exceptional circumstances only. Under no circumstances will a make-up be given to take the place of a regular exam taken earlier. To sign up for a make-up exam, email the chemistry center with the reason for your absence.

FINAL EXAMINATIONS: No student is required to take more than two examinations in one day. A potential problem may be eased by students closely checking the exam schedule. An undergraduate student who has (a) two examinations scheduled for the same period or (b) more than two examinations scheduled for the same day may schedule an alternate time for the final exam.
REGRADING OF EXAMS: If you feel that a mistake has been made in grading your exam, turn it in at the Chemistry Center (E225 CB) for regrading. Write on the cover the question to be regraded, with a one sentence explanation of what you believe was incorrectly graded. The entire exam will be regraded. Exams for regrading must be turned in by the announced date. No regrades will be granted after this time. This regrading policy will be strictly enforced. This is the only way that you can get consideration for regrading.

PARTICIPATION QUESTIONNAIRES: Over the duration of the semester, I will release 10 participation questionnaires through the course ICON site. These questionnaires will be used to seek out feedback from students on topics such as: current study tools being used, topics students are struggling with most, etc. Questions will be graded on completion, not on “right/wrong.” Each questionnaire will be worth 5 points. The close date (due date) for each questionnaire will be clearly listed on the ICON site. Because these questionnaires are meant to provide “real-time” feedback relevant to the course at its current state, no late questionnaires will be graded, nor will extensions be given.

DISCUSSION SESSIONS: Our course TAs will lead these discussions. This time is reserved for problem solving, discussion of lecture material, and explanations of exam answers. I strongly encourage you to attend these sections as the TAs are excellent and can help you learn the material. Their email addresses and office hours will be given on ICON. All TA office hours are held in the TA center on the second floor of the chemistry building.

DROP-ADD SLIPS: Drop and add slips will be signed in the Chemistry Center (E225 CB).

COURSE INFORMATION: Inquiries about details of the course (e.g. extra copies of the syllabus, exam times and places, times and places of discussion sessions, etc.) should be taken to the Chemistry Center (E225 CB).

DROP DATES: Deadline Date: February 03, 2020: last day to drop a course without a W. Deadline Date: April 06, 2020: Last day to drop without Dean’s approval.

CHEATING
Our scientific environment is maintained through the actions of its members and the trust we place in one another. Scientists are expected to remain honest in their words and actions. When this trust is broken the results are often severe and career threatening. One should not cheat on the false assumptions that 1) no one is harmed if no one is aware of the cheating or 2) it is alright to cheat if you aren’t caught. A good scientist will hold themselves to a higher standard where cheating, even if it isn’t discovered, is wrong.

With this important responsibility comes the privilege of being a member of a community that values openness and truth. As you are all scientists in training I will expect you to act accordingly and with an upright manner. Anyone caught cheating will fail and will be reported to the administration.
DEPARTMENTAL HOME:  Department of Chemistry

DEPARTMENTAL CONTACT INFORMATION:  Len MacGillivray, DEO, E331 CB; Lindsay Elliott, Secretary to the Chair, E331 CB, 319-335-0200.

REACTING SAFELY TO SEVERE WEATHER
In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Department of Public Safety website.

ABSENCES AND ATTENDANCE
Students are responsible for attending class and for contributing to the learning environment of a course. Students are also responsible for knowing their course absence policies, which will vary by instructor. All absence policies, however, must uphold the UI policy related to student illness, mandatory religious obligations, including Holy Day obligations, unavoidable circumstances, or University authorized activities (https://clas.uiowa.edu/students/handbook/attendance-absences). Students may use this absence form to aid communication; the instructor will decide if the absence is excused or unexcused (https://clas.uiowa.edu/sites/default/files/ABSENCE%20EXPLANATION%20FORM2019.pdf).

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 (https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code).

ACCOMODATIONS 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 is then responsible for discussing specific accommodations with the instructor. More information is at https://sds.studentlife.uiowa.edu/.

ADMINISTRATIVTE HOME OF THE COURSE
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 related policies. Other colleges may have different policies. CLAS policies may be found here: https://clas.uiowa.edu/students/handbook.
COMMUNICATION AND THE REQUIRES USE OF UI EMAIL
Students are responsible for official correspondences sent to the UI email address (uiowa.edu) and must use this address for all communication within UI (Operations Manual, III.15.2).

COMPLAINTS
Students with a complaint about an academic issue should first visit with the instructor or course supervisor and then with the Chair of the department or program offering the course; students may next bring the issue to the College of Liberal Arts and Sciences. For more information, see https://clas.uiowa.edu/students/handbook/student-rights-responsibilities.

FINAL EXAMINATION POLICIES
The final exam schedule 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 information. No exams of any kind are allowed the week before finals. Visit https://registrar.uiowa.edu/final-examination-scheduling-policies.

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 (diversity.uiowa.edu).

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, please see https://osmrc.uiowa.edu/.
SUGGESTIONS FOR SUCCESSFUL STUDY IN ORGANIC CHEMISTRY II:

- Learning Organic Chemistry requires commitment of time and effort on your part. This course will require at least two hours of out-of-class preparation and study for every hour that you spend in class.

- Reinforce the material that is presented in the lectures by reading the corresponding sections in the book. Work out the in-chapter problems as you go.

- Test your understanding of the material by working out the problems at the end of each chapter. Work out the problems before you check the answers in the Student Study Guide/Solutions Manual.

- You have a wealth of opportunities to reinforce concepts and solve problems with which you may be having difficulty. Avail yourself of the instructor and TA office hours, and attend the lectures and discussion sessions. These opportunities are offered to help you learn Organic Chemistry. Use them!