CHEM:2220 ORGANIC CHEMISTRY II SPRING 2021

INSTRUCTORS: Dr. Rebecca Laird; rebecca-laird@uiowa.edu
*When emailing me, please include the course name/number in your subject line


COURSE DELIVERY: Lectures will be prerecorded and posted on MWF at 9:30am. These lecture videos will be posted under the UICapture module of the course ICON site.

TECHNOLOGICAL DETAILS: All portions of this course are being delivered online. This means that students must be able to access those online components of the course. Tools that will be needed include but are not limited to: reliable internet connection and a computer/laptop/tablet. 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: lecture videos under UICapture, copies of the slides used in class, practice exams, exam keys, homework links, announcements, and other materials. I expect that you will check our ICON site and your uiowa email regularly. All email correspondence must be managed through your uiowa email address.

OFFICE HOURS: Office hours will be hosted via Zoom. Links to the zoom sessions will be posted under the Zoom module of the course ICON site. These office hours are meant to address student questions and assist with course content. No appointment is needed to attend. The sessions will not be recorded. I will hold two office hours each week. These sessions will be on Tuesday 3:00-3:45pm and Wednesday 2:00-2:45pm.

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 second of a two-semester series. It is organized around the concepts of: hybridization and orbital theory, understanding molecular three-dimensionality, functional groups, reactivity, and synthesis. 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 posted each week by the professor and a number of discussions sections lead by a TA.

COURSE GRADES: The maximum possible score is 578 points, 75 points apiece for each exam (4 in class exams) a final exam (150 points), 10 points for each homework assignment (10 assignments total), and 2 points for each participation questionnaire (14 questionnaires total). For our course, the College of Liberal Arts and Sciences strongly suggests a Criterion-Referenced grading scheme with the percent equivalencies shown below.

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-92%</td>
<td>A+</td>
</tr>
<tr>
<td>91-85%</td>
<td>A</td>
</tr>
<tr>
<td>84-80%</td>
<td>A-</td>
</tr>
<tr>
<td>79-74%</td>
<td>B+</td>
</tr>
<tr>
<td>73-68%</td>
<td>B</td>
</tr>
<tr>
<td>67-61%</td>
<td>B-</td>
</tr>
<tr>
<td>60-53%</td>
<td>C+</td>
</tr>
<tr>
<td>52-48%</td>
<td>C</td>
</tr>
<tr>
<td>47-40%</td>
<td>C-</td>
</tr>
<tr>
<td>39-37%</td>
<td>D+</td>
</tr>
<tr>
<td>36-35%</td>
<td>D</td>
</tr>
<tr>
<td>34-33%</td>
<td>D-</td>
</tr>
<tr>
<td>32-0%</td>
<td>F</td>
</tr>
</tbody>
</table>

All scores will be posted on ICON.
EXAM SCHEDULE: Exams dates, times and places are given below.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Feb. 17</td>
<td>9:30-10:20 am</td>
<td>Online</td>
</tr>
<tr>
<td>2</td>
<td>Mar. 10</td>
<td>9:30-10:20 am</td>
<td>Online</td>
</tr>
<tr>
<td>3</td>
<td>Mar. 31</td>
<td>9:30-10:20 am</td>
<td>Online</td>
</tr>
<tr>
<td>4</td>
<td>Apr. 21</td>
<td>9:30-10:20 am</td>
<td>Online</td>
</tr>
<tr>
<td>Final</td>
<td>TBD</td>
<td>TBD</td>
<td>Online</td>
</tr>
</tbody>
</table>

EXAMINATIONS: There will be four regular exams and a final exam. Each exam will be open note/open book. This includes only material from our course. (i.e.- these do not include “google” or other course helper sites, or any other person.)

If there is evidence of a student using other types of aid or assistance, that student will be reported to the college for academic misconduct, even if such evidence arises after the conclusion of this course. Further, any student aware of academic misconduct must report such misconduct.

The exams will be a mixture of multiple choice and free response style questions. All exams will be submitted and graded through gradescope (link to be provided through an ICON announcement prior to the first exam). Each exam will be posted to ICON under the modules section at the exam start time, and students will have 1 hour to submit a pdf of their answers to gradescope. Note: I will not respond to emails nor hold meetings regarding exam material/questions beginning 24 hours prior to exams.

For gradescope:
- Students will have 60 minutes for exam completion. This time limit will begin when the exam document is posted to ICON. The time limit will include the time it takes for students to upload their documents.
- No late submissions will be graded.
- Students will upload a pdf file of their exam answers directly to gradescope. (do not email your files to the instructor or the TA)
- The document that is uploaded to gradescope will be the document that is graded.
- The document that is uploaded must be legible. If it cannot be read, it will not be graded.

If you are ill or are experiencing technically difficulties that prevent you from taking the exam, you must contact one of the instructors as soon as possible.

Each exam is comprehensive but will emphasize material since the previous exam. 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, I will use concepts that I 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 comprehensive.
**MAKE-UP EXAMS:** Make-up exams will be given under exceptional circumstances only. You must sign up for the make-up and give an acceptable reason **before** the regular exam is given. 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 _prior_ to the regular exam 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.

**HOMEWORK:** The online homework on Achieve will allow you to draw structures, learn concepts, and prepare you to excel in this course. These problems are critical to learning organic chemistry, so we will take advantage of Achieve.

I will post one homework assignments for each chapter. The due date and time will be clearly listed in Achieve. You should assume we are going to have regular homework assignments and look for them on Achieve.

The homework questions will be assigned at random from a pool of questions so folks working on adjacent computers will get different questions. Because of this, I am assigning the homework as “full collaboration”. That phrase means that you may work with your classmates, friends, tutors, or anyone else to complete the homework. You may work alone if you wish, but no penalty will be given to those who work together. This policy does not mean that you should copy someone else’s homework: that is not allowed and will be viewed as cheating. You must make an honest effort to complete the homework and understand the answers. One good method to know if you understand the answers is to ask yourself if you can reproduce your homework if you are alone in front of the computer. If you can reproduce your homework, you have some level of understanding of it. Homework is an excellent vehicle for learning class material - take advantage of this opportunity and you will do well on the exams.

The instructions for each assignment will be clearly listed on each assignment. **No late homework will be graded nor will extensions be given without University approved reason.**

**DISCUSSION SESSIONS:**
Our course Graduate Teaching Assistants (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.

The TA email addresses and office hours will be given on ICON. Note: all discussions sessions and all TA office hours will be held virtually via zoom. The zoom sessions will be posted to ICON under the Zoom tab. No TA sessions (virtual discussions or office hours will not be recorded at this time.)
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 2 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.

ZOOM: All virtual sessions will be held through Zoom virtual meetings. To maintain professionalism, the following rules will be followed by all Zoom participants:
- No profanity or vulgar language will be allowed
- Appropriate dress is required any time video is used
- Keep all posts and comments related to course work
- Only UI students enrolled in the course may join, participate, or be visible during our zoom sessions.

I reserve the right to bar any student who does not adhere to these rules after the first offense.

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.
SUGGESTIONS FOR SUCCESSFUL STUDY IN ORGANIC CHEMISTRY II:

During the duration of this term, you will need to practice successful study habits both regarding the Chemistry content and due to the nature of an online course. To be successful in this course, I recommend the following:

- Establish an organized and comfortable space that is dedicated for your study time.

- Keep a set schedule for study time for this course. Just as you would have a set schedule in a face-to-face course (i.e.- lecture time, discussion hour, office hours, etc.), set this for the online course as well. Studying a little bit each day helps develop better understanding and retention versus waiting and “cramming” the night before an exam.

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

- 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, actively watch the lectures and participate in discussion sessions. These opportunities are offered to help you learn the Chemistry. Use them! Don’t wait until the last minute to ask for help. Ask questions as they come.

- Be willing to interact with the instructor, the TA, and your classmates during the zoom sessions. Communication is always important for education, but it is doubly important for online education! Don’t be shy, be willing to speak up, ask questions, and participate!

- Keep yourself on a steady pace! During this course, there will be regularly scheduled assignments. Reference the course schedule and the ICON site to make sure you do not miss a due date. Working at a steady pace will help you learn and understand at a deeper level. (and prevent a game of “catch up” 20 minutes before an assignment is due!)

ADMINISTRATIVE INFORMATION:

DROP-ADD SLIPS: For information on making any changes in registration, please visit the Office of the Registrar’s site listed below:
https://registrar.uiowa.edu/changes-registration

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 (chemistry-center@uiowa.edu).

DROP DATES: Deadline Date: February 08, 2021: last day to drop a course without a W. Deadline Date: April 02, 2021: Last day to drop without Dean’s approval.

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

ADMINISTRATIVE HOME
The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at http://clas.uiowa.edu/students/handbook.

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).

ELECTRONIC COMMUNICATION
University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences (Operations Manual, III.15.2, k.11).

ACCOMMODATIONS FOR DISABILITIES
A student seeking academic accommodations should first register with Student Disability Services and then meet with the course instructor privately in the instructor's office to make particular arrangements. See http://sds.studentlife.uiowa.edu/ for more information.

ACADEMIC HONESTY
All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College's Code of Academic Honesty: "I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled (CLAS Academic Policies Handbook).

CLAS FINAL EXAMINATION POLICIES
The final examination schedule for each class is announced by the Registrar generally by the fifth week of classes. Final exams are offered only during the official final examination period. All students should plan on being at the UI through the final examination period. It is the student's responsibility to know the date, time, and place of a final exam.
MAKING A SUGGESTION OR A COMPLAINT
Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident (CLAS Academic Policies Handbook).

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.

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 have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

DIVERSITY STATEMENT
Respect for Diversity: It is our intent that students from all diverse backgrounds and perspectives be well-served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is our intent to present materials and activities that are respectful of diversity: gender, sexual orientation, disability, age, socioeconomic status, ethnicity, race, culture, perspective, and other background characteristics. Your suggestions about how to improve the value of diversity in this course are encouraged and appreciated. Please let us know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, in scheduling exams, I have attempted to avoid conflicts with major religious holidays. If, however, I have inadvertently scheduled an exam or major deadline that creates a conflict with your religious observances, please let me know as soon as possible so that we can make other arrangements.

MENTAL HEALTH
As a student you may experience a range of issues that can cause barriers to learning. These might include strained relationships, anxiety, high levels of stress, alcohol/drug problems, feeling down, or loss of motivation. University Counseling Services is here to help with these or other issues you may experience. You can learn about the free, confidential mental health services available on campus by calling 319-335-7294 or visiting https://counseling.uiowa.edu/. Help is always available.