CHEM:2220  ORGANIC CHEMISTRY I  Fall, 2019

INSTRUCTOR: Prof. David F. Wiemer; Office E531 CB; david-wiemer@uiowa.edu

TEXTBOOK: "Organic Chemistry" 9th Ed, by Wade and Simek (required, but 8th Ed is OK too)

OPTIONAL MATERIALS: A "Solutions Manual" for the textbook also is available which contains answers to the problems in the text. A set of molecular models, e.g. HGS Molecular Model Set – C SET for Organic Chemistry, is strongly recommended.

LECTURES: MWF 9:30 to 10:20 a.m. in 100 Phillips Hall.

WEB SITE: https://icon.uiowa.edu The course syllabus, announcements, and lecture slides will be available on the ICON site in PDF formats. These slides are not necessarily entire presentations – details and notes will be added during course lectures.

OFFICE HOURS: Monday 10:30–11:50 and Tuesday 10:30–11:50 (in E427 CB). Questions on course material will be answered during class as time permits, at review sessions, during office hours, or by appointment. Electronic media (e.g. e-mail and texting) will not be used to address course concepts. Priority will be given to e-mails that include the specific “word of the day” in the subject line.

DEPARTMENTAL HOME: The Department of Chemistry

DEPARTMENTAL CONTACT INFORMATION: Leonard MacGillivray, DEO, E331 CB; through Mr. Robert Beland, Administrative Service Coordinator, E331 CB, 335-1350.

EXAMINATIONS: Exams are closed-book. Leave textbooks, notes, etc., at home or in the front of the room before the start of the exam, and access to electronic resources is not allowed. There will be three mid-term exams and a final exam. 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 ink, or erasable ink will not be considered for regrades. Exams will be graded and returned through the Chemistry Center (E225 CB) as soon as possible.

EXAM SCHEDULE: Midterm exams dates, times, and places are given below. Exam locations for the final will be posted on the course web site as soon as they are announced by the Registrar.

Exam 1 – Wednesday, September 25, 6:30 – 8:00 PM. LR1 VAN / LR2 VAN
Exam 2 – Wednesday, October 23, 6:30 – 8:00 PM. LR1 VAN / LR2 VAN
Exam 3 – Wednesday, November 20, 6:30 – 8:00 PM. LR1 VAN / LR2 VAN
Final Exam –TBA by the Registrar.

MAKE-UP EXAMS: Make-up exams will be given under exceptional circumstances only. You must sign up for the make-up through the Chemistry Center (E225 CB) and give an acceptable reason before the regular exam is given. To sign up for a make-up exam, fill out the request form (https://uiowa.qualtrics.com/SE/?SID=SV_ebbpDYzM8MA4hEN), which is also linked on our
ICON course site, *prior* to the regular exam with the reason for your absence. Under no circumstances will a make-up be given to take the place of a regular exam taken earlier. The decision as to the acceptability of any make-up request rests with the instructor and a point penalty may be imposed. Vacation travel plans are *NOT* recognized as a valid excuse for the purpose of taking a make-up exam. Make-up exams are comparable to the regular unit exams, but you will not be able to keep the make-up exam. You can review it during the instructor’s office hours and you will have access to the unit exam questions given to the entire class. Make-up exams will be given in Room W290 CB at the times listed below.

**MAKE-UP EXAMS:** Make-up exams will be held from 6:30-8:00 PM on the following dates.
- Make-up Exam 1: Friday, 10/4/19, W290 CB
- Make-up Exam 2: Friday, 11/1/19, W290 CB
- Make-up Exam 3: Friday, 12/6/19, W290 CB

**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 file a request for a change of schedule at the UI Service Center, University Capitol Centre, 8:00 AM to 4:30 PM, M–F. For exam conflicts during the fall semester, the course having the lower department letter will take precedence.

**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 reconsidered.** Exams for regrading must be turned in within one week of the time they are first returned to you. No requests for regrades will be considered after one week. This regrading policy will be strictly enforced. It is the only way that you can get consideration for regrading.

**COURSE GRADES:** The final grade will be based on points earned on the mid-term exams and the final exam.
- 3 hour exams @ 100 pts each……………………………………………………..300 pts
- Comprehensive final with emphasis on last chapters covered……………….150 pts
- Total………………………450 pts

Plus and minus grades may be assigned, but not necessarily split evenly among the three categories. The grade of A+ occasionally may be assigned to recognize exceptional achievement. College of Liberal Arts & Sciences recommended grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>% of Class</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>18</td>
<td>minimum A-</td>
</tr>
<tr>
<td>B</td>
<td>36</td>
<td>minimum B-</td>
</tr>
<tr>
<td>C</td>
<td>39</td>
<td>minimum C-</td>
</tr>
<tr>
<td>D</td>
<td>5</td>
<td>minimum D</td>
</tr>
<tr>
<td>F</td>
<td>2</td>
<td></td>
</tr>
</tbody>
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avg recommended GPA = 2.6 / 4.0
DROP DATES: The deadline to drop without receiving a “W” on your transcript is Monday, September 9, 2019. Undergraduates receive a "W" for any course dropped after the date. Monday, November 4, 2019 is the last day to drop a course.

DROP-ADD SLIPS: Drop and add slips will be signed by Leigh Mather or Trent Tappan 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 Trent Tappan in the Chemistry Center (E225 CB).

DISCUSSION SESSIONS: Discussion sessions will be conducted by a TA. These sessions provide additional opportunities to ask questions, work on problems, and improve your understanding of the course material. The schedule for the discussion sessions follows:

<table>
<thead>
<tr>
<th>Discussion Section</th>
<th>Time</th>
<th>Place</th>
<th>TA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0002</td>
<td>8:30 to 9:20 AM, M</td>
<td>E215 CB</td>
<td>Lucas Howell</td>
</tr>
<tr>
<td>0012</td>
<td>2:30 to 3:20 PM, M</td>
<td>E203 CB</td>
<td>Lucas Howell</td>
</tr>
<tr>
<td>0013</td>
<td>3:30 to 4:20 PM, M</td>
<td>E203 CB</td>
<td>Lucas Howell</td>
</tr>
<tr>
<td>0042</td>
<td>8:30 to 9:20 AM, W</td>
<td>E215 CB</td>
<td>Lucas Howell</td>
</tr>
<tr>
<td>0044</td>
<td>10:30 to 11:20 AM, W</td>
<td>E224 CB</td>
<td>Lucas Howell</td>
</tr>
<tr>
<td>0052</td>
<td>2:30 to 3:20 PM, W</td>
<td>E203 CB</td>
<td>Nazmul Bhuiyan</td>
</tr>
<tr>
<td>0053</td>
<td>3:30 to 4:20 PM, W</td>
<td>C10 PC</td>
<td>Nazmul Bhuiyan</td>
</tr>
<tr>
<td>0054</td>
<td>4:30 to 5:20 PM, W</td>
<td>E203 CB</td>
<td>Nazmul Bhuiyan</td>
</tr>
<tr>
<td>0071</td>
<td>1:30 to 2:20 PM, Th</td>
<td>W258 CB</td>
<td>Nazmul Bhuiyan</td>
</tr>
<tr>
<td>0072</td>
<td>2:30 to 3:20 PM, Th</td>
<td>W258 CB</td>
<td>Nazmul Bhuiyan</td>
</tr>
</tbody>
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TA OFFICE HOURS (208 CB): Lucas Howell: T/Th 11:30–12:20
                          Nazmul Bhuiyan: W 5:30–6:20; Th 3:30–4:20
COURSE DESCRIPTION: This course is intended for science majors (e.g. botany, biology, or microbiology), pre-medical, pre-dental, pre-pharmacy, or pre-veterinary students, or anyone planning to take two years of chemistry. This course is a direct continuation of CHEM2210, Organic Chemistry I. It is organized around the concept of the functional group, but includes di- and poly-functional molecules. Methods for establishing the structure of organic compounds are presented, with an emphasis on NMR and IR spectroscopy and mass spectrometry. The chemistry of ethers, unsaturated organic compounds, carboxylic acids, carboxylic acid derivatives, carbonyl compounds, amines, and heterocyclic compounds is discussed. Finally, the organic chemistry of carbohydrates and amino acids is presented as time allows. Because the chemistry of carbon is three-dimensional, students are strongly advised to buy and use a molecular models kit.

SUGGESTIONS FOR SUCCESSFUL STUDY IN ORGANIC CHEMISTRY II:

- Learning Organic Chemistry requires a 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. The best way to build fluency is to study on a day-to-day basis.

- Reinforce the material that is presented in the lectures by reading the corresponding sections in the book. Work through 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.

- To help you organize your study, a portion of each exam will come from the suggested problems as posted on ICON.

- You have a wealth of opportunities to reinforce concepts and solve problems with which you may be having difficulty. Attend lectures and your discussion section and SI meetings. Use the resources available to you!
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](https://clas.uiowa.edu/students/handbook/attendance-absences)). Students may use this form to aid communication; the instructor will decide if the absence is excused ([https://clas.uiowa.edu/sites/default/files/ABSENCE%20EXPLANATION%20FORM2019.pdf](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](https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code)).

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

Administrative 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](https://clas.uiowa.edu/students/handbook).

Communication and the Required 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](https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code)).

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](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](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](https://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/](https://osmrc.uiowa.edu/).