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Web Site: Online content for the course will be managed using the ICON system (http://icon.uiowa.edu). The site will be used to post copies of the slides used in class, as well as other information.


Optional Materials: I recommend the study guide that is available for Smith’s book (ISBN # 9780077479824). It contains answers to the problems from the text. A molecular models kit is also strongly recommended to visualize the 3D-structures of organic molecules, however, they cannot be used during exams. Some online supplementary instructional materials are also available from McGraw-Hill, but their use is not required.

Course Notes: Copies of the PowerPoint slides used in class will be made available on ICON as PDF files. These will usually be available before the lecture. These notes are intended to be helpful but are not a substitute for attending class. They will be most useful if you look them over before class and add notes to them during the lecture.

Lectures: MWF, 9:30-10:20 AM in 100 PH. The 6:30-8:00 PM Wednesday slot is reserved in your schedule only for the three mid-term exam dates—no other class meetings are planned for that time period. Also, please note that lectures will not be held on mornings of exam dates.

Office Hours: TBA

Questions are welcome during class, during discussions, or during office hours. If a meeting is needed outside these times, please make an appointment.
**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 in Macbride Auditorium and will last 90 minutes. The dates of these exams are listed below. The final exam will be held during the UI-scheduled time (to be announced in mid-September) and will last two hours. Room assignments for finals will be announced in class when 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 mid-term 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. Topics to be covered on a mid-term exam will conclude with the material presented on the Friday before the exam. The Monday class before the exam will then be used as a review session. Coverage of new material will resume on the Friday after the exam.

*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 exam room. My suggestion would be to leave these materials at home. Calculators will rarely, if ever, be needed. *The use of any other electronic devices during exams is 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 cannot be regraded. Exams will be graded and returned (through the Chemistry Center, E225 CB) as soon as possible. Exam results and answer keys will be posted on the ICON course web site.

**Exam Schedule:**

- **Exam 1:** Wednesday, Sept. 16 at 6:30 PM  
  - **Exam 3:** Wednesday, Nov. 11 at 6:30 PM  
- **Exam 2:** Wednesday, Oct. 14 at 6:30 PM  
  - **Final Exam:** Not yet assigned

**Regrades:** Occasional grading mistakes are unavoidable. If you feel that a mistake has been made in grading your exam, 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.* 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. Regrades are not possible on tests written in pencil or erasable ink.

Please note that this procedure is intended to apply to situations where your answer matches the answer posted on the key, but was misgraded. If you disagree with an answer on the key, or feel that a different answer should be accepted, please discuss the issue with me.

**Make-up Exams:** Permission to take a make-up exam will require a valid, written excuse. You must register for the make-up and provide an acceptable reason before the scheduled time of the regular exam that you miss. This process requires that you complete a standard Departmental makeup exam request form (posted on the course ICON site) and submit it to the Chemistry Center (E225 CB). You do not need to contact your instructor about a make-up unless the Chemistry Center has rejected your request. Each make-up will be given on the Friday nine days after the regular exam at 5:30-7:00 PM in room W290 CB. Under no circumstances will a make-up be given in place of a regular exam taken earlier.

**Drop-Add:** Please note that drop/add signatures for this course should be obtained from staff in the Chemistry Center (E225 CB), not from your instructor. If you are an undergraduate student, you may, if approved by your advisor, drop a course through the 10th week of the term.
**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 formal letter grades (A, B, C grades) will be assigned for individual exams, but there will be a curve for each exam that will be based on the class average. This is to ensure fairness to students.

**Discussion Sections:** Each student is assigned to a discussion section conducted by chemistry TAs. These are essentially "help sessions" that provide opportunities to ask questions about lecture material, and discuss problems from the text, practice exam questions, etc. in smaller group settings.

**Supplemental Instruction:** Supplemental Instruction (SI) is offered by the UI as part of an effort to foster student success. This is a completely optional program, administered separately from the course itself—your instructor is not involved in its content or administration. The sessions are informal and are peer-led by a student who has taken the course in the past and has done well.

According to the SI website (http://uc.uiowa.edu/swat/supplemental-instruction-si):

“SI helps you figure out how to be successful in your course. You’ll meet with a fellow student (the SI Leader) who did well in the course, compare notes with other students, discuss readings, get organized, and predict and prepare for test items. The leader attends all class lectures and takes notes, so you can be sure that your leader knows what’s going on in your class and is working with the professor. The sessions are informal, so you can come and go as you please. This service is free and open to all undergraduate students.” SI for 4:122 is scheduled to be offered:

- Mondays: 2:30-3:20 PM
- Wednesdays: 3:30-4:20 PM
- Thursdays: 11:30-12:20 AM

Sessions will start the second week of classes, on Sunday, August 30. All sessions will be in the ARC, Ground Floor, IMU.

**Special Needs:** We need to hear from anyone who has a disability that may require some modification of seating, testing, or other class requirements so that appropriate arrangements may be made. The Student Disability Services (SDS) office is located in 3101 Burge Hall (335-1462). If any such special arrangements are needed for exams, please inform both your instructor and the Chemistry Center (E225 CB; 335-1341).

**Other Course Information:** Inquiries about most logistical issues not covered above can be handled by the Chemistry Center (E225 CB; 335-1341).
Course Description: This course is intended to follow 004:121, Organic Chemistry I. It is partly organized around functional groups and compound types, but methods for determining the structures of organic compounds are also introduced, with an emphasis on NMR spectroscopy. The chemistry of various unsaturated organic compounds, carboxylic acids, carboxylic acid derivatives, other carbonyl compounds, amines, and heterocyclic compounds will be discussed. Finally, a few highlights of the organic chemistry of carbohydrates, lipids, and amino acids will be presented, as time permits.

Course Objectives and Outline: Our main objective this semester is to cover the material summarized in the table below. Any changes will be announced in class. Note that we will directly follow the sequence in the textbook, except for Chapter 15, which was already covered at the end of 4:121, and section 18.13 (in Chapter 18), which is new to 4th Edition, but will not be covered this semester. A few selected highlight topics from Chapters 26-29 will be covered at the end of the semester if time permits, but no readings (beyond the slides), or book problems for such highlight topics will be assigned.

Suggested Problems: Working problems from the text is an essential step in learning the course material. Lists of suggested problems for each chapter are included in the Table above. However, we will not collect or grade these. They are intended for you to use independently as learning tools, and to help provide topics for coverage in discussion sections. You do not have to do all of the suggested problems in order to assimilate the material or perform well on exams. Generally, though, the more problems you can do, the better you will understand the material, and the better prepared you will be.

Please note: the page ranges and problem numbers above correspond to those in the 4th Edition of the text. Corresponding suggested problem numbers for the 3rd Edition will be posted on ICON. There are very few changes in the problems from one Edition to the next, but those differences result in different numbering.
The problems suggested in the Table provide more than ample coverage of the course topics, and practice exams will also be made available. Entries omitted in the lists correspond to problems that are off-topic, or confusingly worded, or redundant, or more advanced than necessary, etc. Some of the suggested problems include many parts/examples, and doing a subset (e.g., half) of the examples should serve the purpose (unless you are not getting the right answers…). However, if you wish to have additional practice, you could try omitted problems, or seek out any other organic chemistry text.

**Anticipated Timeline**: This course requires coverage of a lot of new material. The chapters vary in length, and some topics may inspire more questions than others. In-class questions are welcome and all will be answered. There is no desire to rush through any topics, so our exact pace is difficult to predict. However, for planning purposes, our approximate coverage objectives for each exam are as follows:

- **Exam I**: Chapters 13, 14, 16, and 17
- **Exam II**: Chapters 18 through most of Chapter 21
- **Exam III**: The remainder of Chapter 21 through Chapter 24
- **Final Exam**: Cumulative, including Chapter 25 and any other material covered as time permits

**Collegiate Policies & Procedures**

The College of Liberal Arts and Sciences (CLAS) 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 Student Academic Handbook. Class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the College. These policies are summarized here 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.

The following additional 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.

**Electronic Communication.** University policy specifies that students are responsible for all official correspondence sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondence.

**Accommodations for Disabilities.** A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See www.uiowa.edu/~sds/ for more information.

**Academic Honesty.** All CLAS students 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 will be reported to the College and placed on disciplinary probation or may be suspended or expelled (Please see the CLAS Academic Policies Handbook).

**CLAS Final Examination Policies.** The final examination schedule for each class will be announced around the fifth week of the semester by the Registrar. Your instructor has no input into this schedule, and students should not ask their instructor to reschedule a final exam. Final exams are offered only during the official final examination period. No exams of any kind are allowed (or planned) during the last week of classes. All students should plan on being at the UI through the entire final examination period. Once the Registrar has announced the dates and times of each final exam, the complete schedule will be published on the Registrar's web site. Questions about these policies should be addressed to the Associate Dean for Undergraduate Programs and Curriculum.

**Suggestions or Complaints.** Students with a suggestion or complaint about this course should first visit the instructor, then the Departmental Executive Officer (DEO). The Chemistry DEO can be contacted by calling the Chemistry Department front office at 335-0200. Complaints must be made within six months of the incident—please refer to the CLAS Student Academic Handbook.

**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.

**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 Public Safety web site.

**Public health** authorities recommend that people with flu -like illnesses stay home and not return to public spaces until 24 hours after they have no fever. In order to prevent the spread of disease, please do not come to class, meet with other groups of students, attend office hours, or contact offices in person while you are ill with a fever.