

Chemistry 532 Advanced Organic Chemistry I

Instructor: Tom G. Driver (3220B SEL, 6-9672)

Office Hours: Monday 3 – 5 PM

Lectures: T/Th 11:00 – 12:15 PM
SES 170

Recitation: Th 6:00 – 7:30 PM
SES xxx

Website: www2.chem.uic.edu/CHEM533

Texts (recommended):

(1) "Advanced Organic Chemistry, 5th Edition, *Part A: Structure and Mechanisms*." F. A. Carey and R. J. Sundberg, Springer: 2008.
ISBN: 0387683461

(2) "Frontier Orbitals and Organic Chemical Reactions." I. Fleming, Wiley: 2010. ISBN: 0470746599

(3) "Advanced Organic Chemistry, 5th Edition, *Part B: Reactions and Synthesis*" F. A. Carey and R. J. Sundberg, Springer: 2008.
ISBN: 0387683542

Copies are available at the bookstore. Sections relevant to the material being covered will be noted in class. Additional references to the literature will be given frequently as well; please read them.

Grades:	Homework	15%
	Quizzes	15%
	Midterm #1 (10/6-ish)	20%
	Midterm #2 (11/10-ish)	20%
	Final	30%

Problem sets will be distributed on Tuesday and detailed solutions will be posted on the class website the following Tuesday.

Quizzes will be given on Thursday at the end of class.

Plagiarism will not be tolerated. Please adhere to the guidelines regarding academic integrity as described in the UIC Student Handbook. **Any student who admits to, or is proven to have committed, an act of academic dishonesty on any assignment or examination, will receive a score of zero and will automatically fail the course.** A letter describing the incident will be sent to the head of the Chemistry Department and to the Dean of LAS. For other University boilerplate, see:

http://www.uic.edu/depts/oa/ua/syllabus_policy.shtml

Tentative topic list:

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|---|--------------|
| 1. Structure and Bonding | A1 |
| 2. Frontier Molecular Orbital Theory | F1 |
| 3. Concepts in Physical Organic Chemistry | A4 |
| 4. Conformational Analysis | A2 |
| 5. Concerted Reactions | F6; A11 |
| 6. Aromaticity | A9; A10; B11 |
| 7. Radical Reactive Intermediates | F7; A12; B10 |
| 8. Divalent Reactive Intermediates | F4.6; B10 |