

Advanced Organic Chemistry 2 (Chem 242) – Spring 2015

Instructor: Adam C. Whalley
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Office Hours: For *quick* questions, just drop by. Other times are *by appointment only*.
Class Meetings: 11:45 am – 12:35 pm MWF, Angell B203
UVM Holidays: Classes will not be held on: January 19, February 16, March 2 – 6

Recommended Texts: Carey, F. A., and Sundberg, R. J. *Advanced Organic Chemistry, Part A: Structure and Mechanism*, 5th ed.
Carey, F. A., and Sundberg, R. J. *Advanced Organic Chemistry, Part B: Reactions and Synthesis*, 5th ed.
Kürti, L. and Czako, B. *Strategic Applications of Named Reactions in Organic Synthesis: Background and Detailed Mechanisms*, 1st ed.

500-Point Scale:	Named Reaction Quizzes	100 points	10 quizzes – given ~weekly
	Content Quizzes	150 points	Feb 13 th , March 13 th , April 17 th
	Problem Sets	150 points	3 sets – one before each quiz
	Cumulative Final	100 points	Monday, May 1 st , 2013 from 7:30 am to 10:15 am in Angell B203

Name Reactions: Name reactions are the toolbox of the organic chemist. Developing knowledge of these reactions will allow you to have a greater understanding of potential transformations and mechanisms. Each week (with the exception of content quiz weeks) you will be given THREE name reactions to learn. The following Friday, your knowledge of ONE of these name reactions will be tested with a quick 5–10 minute quiz.

Content Quizzes: A series of three in-class quizzes will be given regularly throughout the semester on the dates listed above. Prior to each of these quizzes you will be given a problem set to aid in your learning of the course material.

Course Grading: Course grading will be structured according to the 500-point scale above. Failure to complete an assignment or quiz on the assigned date will result in a numerical score of zero. Proposals for “extra credit” will not be considered.

Academic Conduct: Cheating or plagiarism will be considered grounds for failing the course (a numerical score of zero). All graded assignments must be your own work. Cases of cheating or plagiarism will lead to further disciplinary action, which may include dismissal from the University according to the rules set forth in the University of Vermont’s *Code of Academic Integrity*:
<http://www.uvm.edu/policies/student/acadintegrity.pdf>

Course Topics:	a. Sigmatropic Rearrangements	g. Functional Group Conversions
	b. Enolate Chemistry	h. Oxidation Reactions
	c. Overview of Olefin Synthesis	i. Reduction Reactions
	d. Elimination Reactions	j. Protecting Groups
	e. Wittig and Related Reactions	k. Organometallic Reagents
	f. Transition Metal Mediated Processes	l. Natural Product Synthesis

The instructor reserves the right to change everything, with appropriate notice.