

## Advanced Organic Chemistry 2 (Chem 242) – Spring 2014

**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 20, February 17, March 3 – 7

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

<b>600-Point Scale:</b>	Named Reaction Quizzes	100 points	10 quizzes – given ~weekly
	Content Quizzes	200 points	Feb 7 <sup>th</sup> , Feb 28 <sup>th</sup> , April 4 <sup>th</sup> , April 30 <sup>th</sup>
	Problem Sets	200 points	4 sets – one before each quiz
	Cumulative Final	100 points	Monday, May 5 <sup>th</sup> , 2013 from 10:30 am to 1:15 pm in Angell B203

**Name Reactions:** Name reactions are the toolbox of the organic chemist. Developing a 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 four 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 600-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>

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

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