Instructor: Office: Phone: Email: Office Hours: Class Meetings: UVM Holidays:	Adam C. Whalley Cook A330 (802)656-8246 Adam.Whalley@uvm.edu For <i>quick</i> questions, just drop by. Other times are <i>by appointment only</i> . 8:30 am – 9:20 am MWF, Angell B203 Classes will not be held on: September 2, November 25–29			
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.			
500-Point Scale:	Content Quizzes Problem Sets Final Examination	200 points 200 points 100 points	4 sets – one Monday, D	Dct. 11 <sup>th</sup> , Nov. 1 <sup>st</sup> , Nov. 22 <sup>nd</sup> e before each quiz becember 9 <sup>th</sup> , 2013 from 7:30 am to n Angell B203
Content Quizzes:	A series of four in-class quizzes will be given regularly throughout the semester on the dates listed above. At least one week prior to each of these quizzes you will be given a problem set. These problem sets will be much harder than the quizzes and are designed 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 <i>Code of Academic Integrity:</i> http://www.uvm.edu/policies/student/acadintegrity.pdf			
Course Topics:	<ul> <li>a. Review of bonding at</li> <li>b. Frontier Molecular C</li> <li>c. Principles of Stereoch</li> <li>d. Conformational analy</li> <li>e. Stereoelectronic effect</li> <li>f. Transition state theory</li> <li>g. Functional group mat</li> </ul>	Drbital Theory hemistry ysis cts y	h. i. j. k. l. m. n.	Pericyclic Reactions Enolate Chemistry Rearrangements Oxidation / Reduction Protecting Groups Organometallics Retrosynthetic Strategy

## Advanced Organic Chemistry Part A (Chem 241) – Fall 2013

**Please note:** This is a very <u>ambitious</u> and <u>tentative</u> list of topics. Chances are, some of the topics in the righthand column will have to wait until Chem 242. Lectures and topics will be adjusted according to time considerations.