Advanced Organic Chemistry 2 (Chem 242) – Spring 2013

I nstructor: 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 21, February 18, March 4–8

R ecommended Texts:
Kürti, L. and Czakó, B. Strategic Applications of Named Reactions in Organic Synthesis: Background and Detailed Mechanisms, 1st ed.

600-Point Scale:
Named Reaction Quizzes 100 points 10 quizzes – given ~weekly
Content Quizzes 200 points Feb 6th, Feb 27th, April 3rd, April 29th
Problem Sets 200 points 4 sets – one before each quiz
Cumulative Final 100 points Tuesday, May 7th, 2013 from 7:30 am to 10:15 am in Angell B203

N amed Reactions:
Named 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 FIVE named reactions to learn. At the beginning of class the following Friday, your knowledge of ONE of these named reactions will be tested with a quick 5–10 minute quiz.

C ontent 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.

C ourse 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.

A cademic 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

C ourse Topics:
a. Overview of Olefin Synthesis
g. Functional Group Conversions
b. Elimination Reactions
h. Oxidation Reactions
c. Sigmatropic Rearrangements
j. Reduction Reactions
d. Wittig and Related Reactions
k. Protecting Groups
e. Transition Metal Mediated Processes 1. Organometallic Reagents

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