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

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Office Hours: For quick questions, just drop by. Other times are by appointment only.
Class Meetings: 8:30 am – 9:20 am MWF, Angell B203
UVM Holidays: Classes will not be held on: September 2, November 25–29

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

500-Point Scale:
Content Quizzes 200 points  Sept. 20th, Oct. 11th, Nov. 1st, Nov. 22nd
Problem Sets 200 points  4 sets – one before each quiz
Final Examination 100 points  Monday, December 9th, 2013 from 7:30 am to 10:15 am in 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 Code of Academic Integrity:
http://www.uvm.edu/policies/student/acadintegrity.pdf

Course Topics:

a. Review of bonding and reactivity
b. Frontier Molecular Orbital Theory
c. Principles of Stereochemistry
d. Conformational analysis
e. Stereoelectronic effects
f. Transition state theory
g. Functional group manipulations
h. Pericyclic Reactions
i. Enolate Chemistry
j. Rearrangements
k. Oxidation / Reduction
l. Protecting Groups
m. Organometallics
n. Retrosynthetic Strategy

Please note: This is a very ambitious and tentative list of topics. Chances are, some of the topics in the right-hand column will have to wait until Chem 242. Lectures and topics will be adjusted according to time considerations.