

CHM 6226 Organic Chemistry
Section 0801
Spring 2012

Instructor: Dr. Eric Enholm: (call me Eric) 214 Leigh; available almost all the time, except lunch; 392-0541, please e-mail me if needed at enholm@chem.ufl.edu

Text: "Advanced Organic Chemistry: Part B" (dark red color) Carey and Sundberg. 5th edition. Available on line

Notes: I will put on your memory stick, need 1-2 GB empty memory

Lecture: Monday, Wednesday, Friday, Period 2, 8:30-9:20 AM in Leigh 104

Office Hrs: Every day in Leigh 214

Exams: The 3 exams below are each worth 100 points. Your first two exams will be period 2 in-class exams. Note that your final is a take-home test and you will have several days to work on it. A few more points (10 total) will be based on your on class participation and attendance.

Total

Synthesis: *These will be done in class. We will study this together as a class.*

Exam 1: Friday, February 3, 2012 in-class

Exam 2: Friday, March 30, 2012 in-class

Exam 3: Pick-up on April 23, 2012 and return on April 25, 2012 in the box outside my door in 214 Leigh

Approximate Weekly Activity:

Week 1 Chapter 1 text reading, enolates, alkylation, enamines, imines

Week 2 Chapter 2 text reading, carbon nucleophiles and carbonyls

Week 3 Chapter 3 text reading, Wittig, Dieckmann, functional group interconversion

Week 4 Chapter 4 text reading, electrophilic additions to alkenes

Week 5 Chapter 5 text reading, reductions, hydrogenations, dissolving metal reductions

Week 6 Chapter 6 text reading, pericyclic reactions
Week 7 Chapter 6 text reading, Diels-Alder, problem analysis
Week 8 Chapter 6 text reading, 2+2, 2,3 RARs, ene reactions, 3,3-sigmatropic
Week 9 Chapter 7 text reading, Grignards, lithiums
Week 10 Chapter 8 text reading, Coppers, 1,4-additions
Week 11 Chapter 9 text reading, silicon and tin
Week 12 text reading, carbocation RARs, carbenes, free radicals
Week 13 text reading, oxidations, metathesis, epoxides
Week 14 text reading, intro to retrosynthesis, more on retrosynthesis
Take home exam given out April 23 at class-- due April 27 at 3 PM