Chemistry 466 – Advanced Organic Chemistry I

Erik Alexanian

Fall 2014

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Office hours by appointment only

Schedule: Tuesday & Thursday 9:30-10:45 AM, Venable G307

Useful Texts: Carey, F. A.; Sundberg, R. J. Advanced Organic Chemistry; Parts A and B
(Available online via UNC Libraries)

Anslyn, E. V.; Dougherty, D. A. Modern Physical Organic Chemistry

Carreira, E. M.; Kvaerno, L. Classics in Stereoselective Synthesis

General: This course will focus most heavily on the material covered in the class lectures, therefore regular attendance is highly recommended. You are responsible for obtaining the notes for missed lectures from your peers. The texts listed above are not required and are chosen to provide useful sources of information as an aid to the lectures.

Concepts: Chemical Bonding
Acidity of Organic Compounds
Conformational Analysis
Stereoselective Reactions

Molecular Orbital Theory
Stereochemistry
Molecular Rearrangements
Pericyclic Reactions

Grading: Problem Sets (6, lowest score dropped) 5 \times 20 = 100 \text{ pts.}
Exams (3, lowest score dropped) 2 \times 100 = 200 \text{ pts.}
Final Exam (1) 1 \times 200 = 200 \text{ pts.}
500 \text{ pts.}

Exams: Exam 1 – Tuesday, September 16, 9:30-10:45 AM
Exam 2 – Tuesday, October 14, 9:30-10:45 AM
Exam 3 – Tuesday, November 18, 9:30-10:45 AM
Final Exam – Tuesday, December 9, 8:00-11:00 AM