

SYLLABUS
CHEM 605 – Advanced Organic Chemistry
Structure and Mechanism
Dr. Gund – Fall 2017
Office 388T- tel xt 3669, email Gund@njit.edu
Computer Laboratory 324 T

Text : Carey and Sundberg « Advanced Organic Chemistry, » 4th ed., Part A: Structure and Mechanisms, Kluwer Academic/Plenum Publishers, NY, 2000

Supplementary Texts:

- (1) Smith and March, “March’s Advanced Organic Chemistry”, 5th ed., Reactions, Mechanisms, and Structure, John Wiley Publishers, NY 2001
- (2) Bruckner “Advanced Organic Chemistry”, Hartcourt/Academic Press, NY 2002
- (3) Isaacs “Physical Organic Chemistry”, 2nd ed Addison Wesley Longman, England 1996

From Carey and Sundberg:

Chapter 2 – Principles of Stereochemistry

Chapter 3 – Conformational, Steric and Stereoelectronic Effects

Chapter 4 – Study and Description of Organic Reaction Mechanisms

Chapter 5 – Nucleophilic Substitution

Chapter 6 – Polar Addition and Elimination Reactions

Chapter 9 – Aromaticity (If time permitting)

Chapter 11 - Concerted Pericyclic Reactions

There will be three exams. Two will be given during the semester and the third during final week. Each exam is worth 100 points. Grades will be made up out of 300 points.

Problems at the end of the chapter are assigned.

Office hours will be MW 11:30 to 12:30. If you cannot make those other times can be arranged.

Course notes, text, problems and select answers will be posted on Moodle.

To do well in the course you must do assigned problems and understand lecture material.