

CH 430/530 Advanced Organic Chemistry, Fall 2008 (CRN#15417 /15440)

Instructor: Scott Reed, (sreed@pdx.edu)

Class Meetings: Monday/Wednesday: 8:15 - 10:05, Neuberger Hall 446

Office Hours: Monday/Wednesday: 10:05 - 11:30 pm in SB1, 309 (or by appt.)

Text: "Perspectives on Structure and Mechanism in Organic Chemistry" by Felix A. Carroll (Brooks/Cole). Available at the PSU bookstore.

Grading:

- 10% Homework
- 40% 2 Midterm exams (20% each)
- 20% Presentations (and participation in literature discussions)
- 30% Final Exam

Objectives: One goal of this course is to provide a survey of physical organic chemistry. Another goal of the course will be to develop skills of searching, reading, and understanding the chemical literature related to organic chemistry.

Prerequisites: Organic Chemistry (1 yr) is the only *firm* prerequisite. Physical Chemistry is recommended.

Homework: Homework is due one class period after completing the chapter (10% off for each weekday late).

Exams: There will be two midterm exams (worth 40% of your overall grade) and a final exam (worth 30% of your grade). There will be no make-up exams.

Presentations: Each student will present one formal literature talk in class. Your presentation grade (20%) is based on your talk and your participation in discussions.

Schedule: Outline for the term:

Week 1	9/29 & 10/1	Stereochemistry (Chapter 2)
Week 2	10/6 & 10/8	Conformational Analysis (Chapter 3.1 – 3.2)
Week 3	10/13 & 10/15	Reactive Intermediates (Chapter 5)
Week 4		Midterm (on 10/22)
Week 5	10/27 & 10/29	Techniques for studying reaction mechanisms (Chapter 6)
Week 6	11/3 & 11/5	Acid Base Catalysis (Chapter 7.2 and 7.3)
Week 7	11/10	Substitution (Chapter 8) Midterm 2 (on 11/12)
Week 8	11/17 & 11/19	Addition (Chapter 9) + presentations
Week 9	11/24 & 11/26	Elimination (Chapter 10) + presentations
Week 10	12/1 & 12/3	Photochemistry (Chapter 12)
Final exam	(Monday, Dec 8 th)	8:00-9:50