

CH 430/530 Advanced Organic Chemistry, Fall 2007 (CRN#15833 /15834)

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

Class Meetings: Tuesday/Thursday: 10:00 - 11:50, SB2, 166

Office Hours: Tuesday/Thursday: 11:50 - 1:00 pm in SB1, 309 (or by appt.)

Text: "Perspectives on Structure and Mechanism in Organic Chemistry" by Felix A. Carroll (Brooks/Cole). Additional reference books are on reserve at the library.

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) and Physical Chemistry (1 yr) are prerequisites.

Homework: Homework assignments will be collected and graded. 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	<i>9/25 & 9/27</i>	Stereochemistry (Chapter 2)
Week 2	<i>10/2 & 10/4</i>	Conformational Analysis (Chapter 3.1 – 3.2)
Week 3	<i>10/9 & 10/11</i>	Reactive Intermediates (Chapter 5)
Week 4		Midterm (on 10/18), no class on 10/16
Week 5	<i>10/23 & 10/25</i>	Techniques for studying reaction mechanisms (Chapter 6)
Week 6	<i>10/30 & 11/1</i>	Acid Base Catalysis (Chapter 7.2 and 7.3)
Week 7	<i>11/6 & 11/8</i>	Substitution (Chapter 8)
Week 8		Midterm 2 (on 11/15)
Week 9	<i>11/20</i>	Addition and Elimination (Chapter 9, Chapter 10)
Week 10	<i>11/27 & 11/29</i>	Photochemistry (Chapter 12)

Final exam (Tuesday, Dec 4th 10:15-12:05 in SB2, 166)