CHEM 3332 Honors Organic Chemistry II
Spring 2013

Prof. Jeremy A. May
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Office hours: MW 16:00-17:00; also, meetings by appointment (send me an email).

Lectures: Room 154 Fleming
Mondays and Tuesdays 17:30-19:00. Jan 19 - May 2, 2009.
Lecture attendance is required. There will be material presented in the lecture that is not in your text.

Text: Wade. "Organic Chemistry", 8th Ed. You are responsible for reading the chapter to be discussed in lecture (see Class Schedule). It is best to do this before the lecture on that topic.

Optional Texts: (Found in the library)
Kürti, L.; Czakó, B. "Strategic Applications of Named Reactions in Organic Synthesis"
Zweifel, G.; Nantz, M. "Modern Organic Synthesis: An Introduction"
Warren, S. "Designing Organic Syntheses: A Programmed Introduction to the Synthon Approach"

Model Sets: Students are *strongly* encouraged to purchase at least one set. HGS biochemistry molecular model sets, which are available in UH Research Stores, are recommended.

Name Reactions: There are a number of key reactions in organic synthetic chemistry that have become identified by a name (either a person or a specific transformation). Knowledge of these reactions is fundamental to your success in this class. Make note of them (and their mechanisms) as they appear in the text and in lecture, as they will appear on exams and quizzes.

Quizzes: Quizzes will be administered in class routinely to encourage study of the material in a timely manner. They will be based on material covered in the lecture. Some problems will be taken from the homework and some will be new problems that you haven't seen. Quizzes are CLOSED BOOK. No make-up quizzes will be given.

Problem Sets: Problem sets are considered mandatory. While not collected or graded, some problems will appear later in quizzes and tests to assess if the material was learned. Some homework problems will be assigned from the text, and some will be distributed as a handout in class. It is essential to practice the material to comprehend it.

Exams: There will be three midterm exams and a final (see schedule). The midterms will be administered Friday evenings from 7 to 9 pm. The final will be administered on the same day and time as the other CHEM 3332 sections (see schedule). As is chemistry itself, the exams will be comprehensive. No make-up exams will be given. Exams are CLOSED BOOK. Only writing utensils and a model set are allowed for the test. All other personal items must be left at the front of the class. The final exam will cover both semesters of Organic Chemistry (CHEM 3331 and 3332). Two thirds of the final will be the ACS standardized organic chemistry exam, while the instructor will write one third.

Course Grade:
The course grade will be based on midterm exams (60%: 20% each), quizzes (10%), and the final exam (30%: 20% ACS and 10% CHEM 3332). Note that there are no "dropped" scores. Any conflicts with exam dates (see below) should be dealt with in the first week of the course.

Drop Days: Monday, Jan. 30 (no grade assigned) and Mar. 27 (W grade).

Class Schedule Spring 2011

Class Day	Day of Week	Approximate Topic
14-Jan	M	Ch. 14 Ethers, Epoxides, and Thioethers
16-Jan	W	Ch. 14 Ethers, Epoxides, and Thioethers
21-Jan	M	Martin Luther King, Jr. Day: NO CLASS
23-Jan	W	Ch. 15 Conjugated Systems
28-Jan	M	Ch. 15 Diels-Alder and Electrocyclizations
30-Jan	W	Ch. 16 Aromatic Compounds
4-Feb	M	Ch. 16 Heterocycles
6-Feb	W	Ch. 17 Benzene Reactions
8-Feb	F	Midterm I
11-Feb	M	Ch 17 Benzene Substituents
13-Feb	W	Ch. 17 Benzene Substituents
18-Feb	M	Ch. 18 Aldehydes and Ketones
20-Feb	W	Ch. 18 Aldehydes and Ketones
25-Feb	M	Ch. 20 Carboxylic Acids
27-Feb	W	Ch. 20 Carboxylic Acids
4-Mar	M	Ch. 21 Carboxylic Acid Derivatives
6-Mar	W	Ch. 22 Enolate Anions
8-Mar	F	Midterm II
11-Mar	M	Spring Break
13-Mar	W	Spring Break
18-Mar	M	Ch. 22 Enolate Anions
20-Mar	W	Ch. 22 Enolate Anions
25-Mar	M	Ch. 22 Ester Enolates
27-Mar	W	Ch. 19 Amines
1-Apr	M	Ch. 19 Amines
3-Apr	W	Ch. 23 Carbohydrates
8-Apr	M	Ch. 23 Nucleic Acids
10-Apr	W	Ch. 24 Amino Acids, Peptides and Proteins
12-Apr	F	Midterm III
15-Apr	M	Ch. 25 Lipids
17-Apr	W	Ch. 26 Organic Polymers
22-Apr	M	C-C Bond-Forming Reactions
24-Apr	W	Organic Synthesis
29-Apr	M	Organic Synthesis
1-May	W	FINAL EXAM 154 Fleming; 8-11am