

Syllabus: Chem 244, Organic Chemistry II

Fall 2017

Instructor: Prof. Tamara Gund

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Office Hours: M 11:30 to 12:30 pm; W 11:30 to 12:30 pm; If you cannot make those hours other times can be arranged by appointment

Textbook: Organic Chemistry, 8th edition by Wade

The textbook is packaged with a study guide and molecular modeling software with workbook.

An inexpensive set of molecular models is highly recommended and models cannot be used during exams.

Material to be covered and tentative exam dates:

Chapter 11, Reactions of Alcohols

Chapter 12, IR Spectroscopy and Mass Spectrometry.

Chapter 13, NMR Spectroscopy.

Chapter 14, Ethers, Epoxides and Sulfides

Exam 1: October 16, 2017

Chapter 15, Conjugated Systems, Orbital Symmetry and UV Spectroscopy

Chapter 16, Aromatic Compounds.

Chapter 17, Reactions of Aromatic Compounds.

Exam 2: November 13, 2017

Chapter 18, Ketones and Aldehydes.

Chapter 20, Carboxylic Acids.

Chapter 21, Carboxylic Acid Derivatives.

Exam 3: December 4, 2017

Chapter 22, alpha-Substitution and Condensations of Enolate ions.

Chapter 19, Amines

Chapter 23-26, Selected Topics.(If time permits)

Final Exam

The final exam will be cumulative. Material from Organic Chemistry I, Chem 243 will have to be understood and integrated with the material in this course. In between exams there will be three short announced quizzes. There may be a fourth one depending on time.

Problems in the body of the chapter are assigned and selected problems at the end of the chapter. These will not be collected. You have answers to these problems. To do well in the course it is important to do these problems.

The grade will be determined from a total of 400 points. 100 points will be dropped from the total of 500 points. Either the quizzes (100 points) or the lowest of the three exams. Makeup exams are not encouraged. If you must miss an exam contact me before the exam or immediately after. Makeup should be taken within the first week of the exam and before exams are given back. The final exam will not be dropped.

Attendance is required and will be taken into consideration when grades are computed.