

**CHEM 2453  
ORGANIC CHEMISTRY**

**FALL QUARTER, 2005**

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**Text:** "Organic Chemistry", 2<sup>nd</sup> Edition, by Joseph M. Hornback

**Help Sessions:**

There is no formal recitation associated with this class. There will be no weekly quizzes. There will be a help session each Tuesday at 8:00 am. During these sessions I will go over the homework problems and answer any questions you have about them or the previous week's lecture. Attendance at these sessions is completely optional, but if you are having trouble understanding something, try to come to the help session. If you have a conflict, make an appointment by calling me at X12981.

**Homework:** In the lecture outline you will find a set of homework problems listed for each chapter. You do not have to turn in these problems. However, you should recognize the value of working the problems. This is the best way to learn the material and to prepare for the exams since the exam problems will be similar to the homework problems. Working the problems also tells you whether you really understand the material or not.

**It is also important to keep up with the material as it is covered in class.** Read your book and work the appropriate problems soon after the material is covered in class. If you fall behind, you will make the class much more difficult for yourself.

**Exams:** There will be two one-hour exams during the quarter and one 1.75-hour, cumulative final exam, each worth 200 points. If your lowest hour exam score is lower than your final exam score, the hour exam score will be dropped and the final will count double. **There will be no make-up exams.** If you miss an exam, for any reason, it will have to count as the dropped exam.

**Grading:** Your final grade will be based on the two exams and the final. The maximum point total is 600 points.

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**Tentative Lecture Outline**

<b>DATE</b>	<b>TOPIC</b>	<b>READING ASSIGNMENT &amp; PROBLEMS</b>
Sept. 12	Chapter 12 Functional Groups and Nomenclature II	Read pp. 466-488, 491-494. Problems 12.1-4, 7, 8, 11, 12, 14, 15, 19, 20, 21-23.
Sept. 14	continue	
Sept. 16	Chapter 18 Additions to the Carbonyl Group	Read pp. 739-790. Problems 18.1-29, 31-33, 35-39, 42, 43.
Sept. 19	continue	
Sept. 21	continue	
Sept. 23	continue	
Sept. 26	continue	
Sept. 28	continue	
Sept. 30	Chapter 19 Substitutions at the Carbonyl Group	Read pp. 803-835, 840-843. Problems 19.1-10, 12-24, 36-39.
Oct. 3	continue	
Oct. 5	<b>EXAM 1</b>	Chapters 12 and 18
Oct. 7	continue Chapter 19	
Oct. 10	continue	
Oct. 12	continue	
Oct. 14	Chapter 20 Enolate and Other Carbon Nucleophiles	Read pp. 858-905. Problems 20.1-18, 20-32, 35-43.
Oct. 17	continue	

Oct. 19	continue	
Oct. 21	continue	
Oct. 24	Chapter 21 The Chemistry of Radicals	Read pp. 918-948. Problems 21.1-11, 13-29.
Oct. 26	continue	
Oct. 28	continue	
Oct. 31	Chapter 22 Pericyclic Reactions	Read pp. 956-1001. Problems 22.1-39.
Nov. 2	<b>Exam 2</b>	Chapters 19, 20, and 21
Nov. 4	continue Chapter 22	
Nov. 7	continue	
Nov. 9	continue	
Nov. 11	continue	
Nov. 14	continue	
Nov. 16	Chapter 25 Carbohydrates	Read pp. 1085-1110. Problems 25.1-23.
Nov. 18	continue	
Nov. 19	<b>FINAL EXAM</b>	Cumulative <b>(7:00 - 8:45 am)</b>