

**CHEM 2451, SECTION 2
ORGANIC CHEMISTRY
WINTER QUARTER, 2011**

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Text: "Organic Chemistry", Second Edition, by Joseph M. Hornback

Home Page: www.nsm.du.edu/organic

Problem Sessions: There is no formal recitation associated with this class. There are no weekly quizzes. Each week there will be a problem session on Tuesday at 9:00 am. During this session the instructor will go over the homework problems and answer any questions you have about them or the previous week's lecture. Attendance at this session is optional, but if you are having trouble understanding something, try to come to the help session. If you have a conflict, make an appointment with the instructor.

Homework: Assigned problems are a vital exercise that will help you to consolidate your understanding of the material and they will help you to be ready for the exams. Problem assignments will be given periodically in class. **These problem assignments must be submitted for grading. For many assigned problems, full points will be given merely for completing the assignment and showing your work, but *any number of problems may be graded for correctness at the instructor's discretion.*** It's ok for you to work in groups on these problems, but your submitted work must be your own. It is strongly recommended that you at least attempt to solve each problem independently before comparing with others, because this will give you the best opportunity to develop your understanding of the material.

Success: **It is 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. Get help when you need it. It is very difficult to master challenging concepts on the night before an exam.

Please note that most of the material in O Chem builds on itself rather than existing as separate concepts. It's very hard to succeed later in the course if you haven't mastered the early material.

Exams: There will be two 50 min. exams during the quarter, each worth 150 points. The final exam is cumulative and is worth 300 points. If your final exam score is higher than one of your other exam scores, that exam score will be dropped and your final will count for 450 points. **There will be no make-up exams.** If you miss an exam, for any reason, it will have to count as the dropped exam. The final exam is not optional.

Clickers: Clickers will not be used in this section.

Grading: Your final grade will be based on a maximum of 640 points, distributed as follows: midterm exams and final exam, 600 points; homework, 40 points. All homework assignments contribute equally to the 40 point total.

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Tentative Lecture Outline

DATE	TOPIC	ASSIGNED READING
Jan. 3	Chapter 1 A Simple Model for Chemical Bonds	Read pp. 1-25.
Jan. 5	Chapter 2 Organic Compounds: A First Look	Read pp. 30-53.
Jan. 7	continue Chapter 2	
Jan. 10	continue Chapter 2	
Jan. 12	Chapter 3 Orbitals and Bonding	Read pp. 61-97.
Jan. 14	continue Chapter 3	
Jan. 17	No class	
Jan. 19	continue Chapter 3	
Jan. 21	continue Chapter 3	
Jan. 24	Chapter 4 The Acid-Base Reaction	Read pp. 103-135.
Jan. 26	continue Chapter 4	
Jan. 28	continue Chapter 4	
Jan. 31	Chapter 5 Functional Groups and Nomenclature I	Read pp. 142-172.
Feb. 2	continue Chapter 5	
Feb. 4	EXAM 1 Chapters 1, 2, 3, and 4	

Feb. 7	Chapter 6 Stereochemistry I Cis-Trans Isomers and Conformations	Read pp. 178-214.
Feb. 9	continue Chapter 6	
Feb. 11	continue Chapter 6	
Feb. 14	continue Chapter 6	
Feb. 16	Chapter 7 Stereochemistry II Chiral Molecules	Read pp. 219-244.
Feb. 18	continue Chapter 7	
Feb. 21	continue Chapter 7	
Feb. 23	Chapter 8 Nucleophilic Substitution Reactions	Read pp. 257 - 302.
Feb. 25	EXAM 2 Chapters 5, 6, and 7	
Feb. 28	continue Chapter 8	
Mar. 2	continue Chapter 8	
Mar. 4	continue Chapter 8	
Mar. 7	Chapter 9 Elimination Reactions	Read pp. 313-325; 329-341.
Mar. 9	continue Chapter 9	
Mar. 12	FINAL EXAM 10:00 - 11:50	Cumulative