

Chemistry 350, Jasperse, Fall 2009			Reading
Class	Date	Topic	Assignment
1	Aug. 24	Intro. Octet Rule, Lewis Structure, Electroneg, Polarity, Formal Charge	1.1-1.6
2	Aug. 26	Resonance; Structural Formulas; Acids/Bases, Electrophiles/Nucleophiles	1.7-1.14
3	Aug. 28	Orbitals, π -Bonds, Hybridization + Shape; Drawing 3-D Shapes	2.1-2.6
	Aug. 31	Bond Rotation, Isomerism, Polarity, Intermolecular Forces, Solubility	2.7-2.11
4	Sept. 2	Classification of Organic Compounds. The Functional Groups.	2.12-2.14
5	Sept. 4	Classification, Formulas, Physical Properties, Nomenclature of Alkanes	3.1-3.5
6	Sept. 7	Labor Day Holiday	No Class
7	Sept. 9	Conformations and Stability of Acyclic Alkanes and Cycloalkanes	3.6-3.12
8	Sept. 11	Conformations and Stability of Cyclohexanes	3.13-3.16
9	Sept. 14	Alkane Chlorination. Factors to Think About in a Chemical Reaction.	4.1-4.9
10	Sept. 16	Transition States, Multistep Reactions, Halogenation of Higher Alkanes.	4.10-4.14
11	Sept. 18	Test 1. Chapters 1-3.	Test
12	Sept. 21	Reactive Intermediates (Radicals, Cations, Anions)	4.15-4.16
13	Sept. 23	Chirality, R/S Classification of Chiral Carbons.	5.1-5.3
14	Sept. 25	Miscellaneous Stereochemistry	5.4-5.9
15	Sept. 28	Diastereomers; More than One Chiral Carbon	5.11-5.16
16	Sept. 30	Catchup	Catchup
17	Oct. 2	Nomenclature, Structure, Properties, Reactivity of Alkyl Halides.	6.1-6.7
		Skip 5.10	
18	Oct. 5	The Sn2 Substitution Reaction.	6.8-6.12
19	Oct. 7	The Sn1 Substitution Reaction.	6.13-6.16
20	Oct. 9	The E1 and E2 Elimination Reactions. Substitution vs. Elimination?	6.17-6.21
	Oct. 12	Fall Breather, NO CLASS	No Class
21	Oct. 14	Catchup	Catchup
22	Oct. 16	Alkenes: Structure, Nomenclature, Isomers.	7.1-7.6
23	Oct. 19	Test 2. Chapters 4-6	Test
24	Oct. 21	Alkene Stability; Synthesis.	7.7-7.10
25	Oct. 23	Synthesis of Alkenes; Classifying/Recognizing Reaction Mechanisms; Alkenes	7.10-8.2
		Skip 7.11	
26	Oct. 26	Addition of H-Cl, H-Br, and H-OH to Alkenes.	8.1-8.5
27	Oct. 28	Oxymercuration/Dermercuration; Hydroboration/Oxidation; Hydrogenation	8.5-8.7,8-10
28	Oct. 30	Addition of Halogens, Formation of Halohydrins; Epoxidation	8.8-8.9
		Skip 8.11	
29	Nov. 2	Oxidation Reactions of Alkenes	8.12-8.16
30	Nov. 4	Catchup; Practice Problems	Catchup
31	Nov. 6	Structure, Nomenclature, Properties, Weak Acidity of Alcohols	10.1-10.6
		Skip 8.16	
32	Nov. 9	Test 3. Chapters 7,8	Test
33	Nov. 11	Synthesis of Alcohols; Organometallic Reactions	10.7-10.9
34	Nov. 13	Side Reactions; Reduction of Carbonyl Compounds	10.10-10.11
		Skip 10.12	
35	Nov. 16	Catchup; Practice Problems	Catchup
36	Nov. 18	Oxidation of Alcohols	11.1-11.3
37	Nov. 20	Conversion of Alcohols to Tosylates or Halides; Uses of Tosylates and Halides	11.5-11.9
38	Nov. 23	Miscellaneous; Multistep Synthesis	11.10, 11.14
39	Nov. 25	Thanksgiving Break	No class
40	Nov. 27	Thanksgiving Break	No class
41	Nov. 30	Catchup, Multistep Synthesis Problems	Catchup
42	Dec. 2	Review for Test 4	---
43	Dec. 4	Test #4 Covering Chapters 10,11	Test
		Skip 11.4, 11.11-13	
44	Dec. 7	Practice Test for Final, As Much as Time Permits	
	Dec. 15	Final Exam. 12:00 TUESDAY	Final Exam

Tentative
Letter
Grades:
A: 90%
B: 78%
C: 66%
D: 54%