

Chemistry 341, Jasperse, Summer 2009 (39 class days)		Reading	
Date	Topic	Assignment	
June 15	NO CLASS		
June 16	Intro. Octet Rule, Lewis Structure, Hybridization, Bonding	1.1-11	
June 17	Formal Charge, Resonance, Hybridization + Shape; Drawing 3-D Shapes	1.12-2.6	
June 18	Acid-Base Chemistry, Bond Rotation, Isomerism, Polarity, Intermolecular Forces, Solubility	2.7-2.13	Tentative
June 19	Classification of Organic Compounds. The Functional Groups.	3.1	Letter
June 22	Formulas, Nomenclature, Conformations of Alkanes	3.2-7	Grades:
June 23	Conformations and Stability of Acyclic Alkanes and Cycloalkanes	4.1-4	A: 90%
June 24	Conformations and Stability of Cyclohexanes	4.5-9	B: 77%
June 25	Catchup	Catchup	C: 65%
June 26	Alkane Chlorination. Factors to Think About in a Chemical Reaction.	5.1-8, 10.3-4	D: 53%
June 29	Transition States, Multistep Reactions, Halogenation of Higher Alkanes.	5.9-11, 10.3-4	
June 30	Test 1. Chapters 1-4.		
July 1	Reactive Intermediates (Radicals, Cations, Anions)	5.9-11, 10.3-4	
July 2	Chirality, R/S Classification of Chiral Carbons.	9.1-5	
July 3	NO CLASS		
July 6	Miscellaneous Stereochemistry	9.1-5	
July 7	Diastereomers; More than One Chiral Carbon	9.6-14	
July 8	Nomenclature, Structure, Properties, Reactivity of Alkyl Halides.	10.1-4	
July 9	The Sn2 Substitution Reaction.	11.1-3	
July 10	The Sn1 Substitution Reaction.	11.4-6	
July 13	The E1 and E2 Elimination Reactions. Substitution vs. Elimination?	11.7-12	
July 14	Catchup	Catchup	
July 15	Practice	Practice	
July 16	Alkenes: Structure, Nomenclature, Isomers.	6.1-5	
July 17	Test 2. Chapters 4-6	Test	
July 20	Alkene Stability; Synthesis.	6.6, 7.1	
July 21	Synthesis of Alkenes; Classifying/Recognizing Reaction Mechanisms; Alkenes	7.1, 17.6	
July 22	Addition of H-Cl, H-Br, and H-OH to Alkenes.	6.7-11, 7.2	
July 23	Oxymercuration/Dermercuration; Hydroboration/Oxidation; Hydrogenation	7.4, 7.5, 7.7	
July 24	Addition of Halogens, Formation of Halohydrins; Epoxidation	7.2-3	
		Skip 7.6, 10, 11	
July 27	Oxidation Reactions of Alkenes	7.8-9	
July 28	Catchup; Practice Problems	Catchup	
July 29	¹ H NMR Overview: Chemical Shift, Integration, and Splitting; ¹ H NMR Problem Solving	13.1-3, 8-11	
July 30	¹ H NMR Problem Solving	13.8-11	
July 31	Test 3. Chapters 6,7	Test	
		Skip 10.12	
Aug 3	¹ H NMR Problem Solving	13.8-11	
Aug 4	¹³ C NMR	13.4-5	
Aug 5	Infrared Spectroscopy	12.6-8	
Aug 6	Integrated Practice Problems	Practice	
Aug 7	Test 4. Chapters 13, 12	Test	