

Chemistry 341, Jasperse, Summer 2013 (38 class days)			Reading
Date	Topic		Assignment
	June 10	NO CLASS	
1.	June 11	Intro. Octet Rule, Lewis Structure, Hybridization, Bonding	1.1-5
2.	June 12	Formal Charge, Resonance, Hybridization + Shape; Drawing 3-D Shapes	1.6-11
3.	June 13	Acid-Base, Mechanism.	1.12-18
4.	June 14	Hybridization, Rotation, Isomerism, Polarity, Intermolecular Forces, Solubility Quick skim 2.1-4	2.1-7, 17,22.
5.	June 17	The Organic Functional Groups.	4.1, 4.6
6.	June 18	Formulas, Nomenclature, Conformations of Alkanes	2.5-14
7.	June 19	Conformations and Stability of Acyclic Alkanes and Cycloalkanes	3.1-6
8.	June 20	Conformations and Stability of Cyclohexanes, Catchup	3.7-13
9.	June 21	Alkane Chlorination. Factors to Think About in a Chemical Reaction. Quick skim 3.13-15. Skip 4.1-14 at this time.	4.15-19
10.	June 24	Transition States, Multistep Reactions, Halogenation of Higher Alkanes.	4.15-19
11.	June 25	Reactive Intermediates (Radicals, Cations, Anions)	4.10,17
12.	June 26	Test 1. Chapters 1-3.	
13.	June 27	Chirality, R/S Classification of Chiral Carbons.	7:1-6
14.	June 28	Miscellaneous Stereochemistry Skip 4.1-14 at this time. Quick skim 7.7,9,16,17	7:8,10
15.	July 1	Diastereomers; More than One Chiral Carbon	7.11-15
16.	July 2	Nomenclature, Structure, Properties, Reactivity of Alkyl Halides.	4.2,4-6
17.	July 3	The Sn2 Substitution Reaction.	8.1-5
	July 4	NO CLASS	
18.	July 5	The Sn1 Substitution Reaction.	8.6-12
19.	July 8	E1 and E2 Eliminations. Substitution vs. Elimination? Cation rearrangements	5.14-18
20.	July 9	Alkenes: Structure, Nomenclature, Isomers.	5.1-7; 13.25
21.	July 10	Alkene Stability; Synthesis.	5.8-13
22.	July 11	Synthesis of Alkenes; Classifying/Recognizing Reaction Mechanisms; Alkenes	catchup
23.	July 12	Test 2. Chapters 4, 7, 8, 5 Skim: 5.17	Test
24.	July 15	Addition of H-Cl, H-Br, and H-OH to Alkenes.	6.1-6,18
25.	July 16	Oxymercuration/Dermercuration; Hydroboration/Oxidation; Hydrogenation	6.9-13, p.275
26.	July 17	Addition of Halogens, Formation of Halohydrins; Epoxidation <u>Drop Deadline</u>	6.14-17
27.	July 18	Oxidation Reactions of Alkenes	6.19,20
28.	July 19	Catchup; Practice Problems Skim: 6.21	Catchup
29.	July 22	Intro; Conjugation, Molecular Orbitals, Dienes, Allylic Cations, Diene Additions	10.1-7, 11.13,14
30.	July 23	More allylic cations/radicals/conjugation and Applications; Diels-Alder Reaction	10.8-14
31.	July 24	Test 3. Chapters 5, 6	Test
32.	July 25	Diels-Alder Reaction, Aromaticity	10.15-17
33.	July 26	Aromaticity; Huckel's Rule, Complex Aromaticity, Application, Nomenclature Skip: 11.10,16,17	11.1-9,18-23
34.	July 29	Electrophilic Aromatic Substitution: Intro, Mechanisms	12.1-8
35.	July 30	Reactions Detailed: Halogenation, Nitration, Sulfonation, Alkylation, Acylation	12.9-16
36.	July 31	Catchup; Addition to Disubstituted Benzenes; Synthetic Applications	11.11-12
37.	Aug 1	Synthetic Applications; Practice	Practice
38.	Aug 2	Test 4. Chapters 10, 11, 12 Skip: 12.17-22	Test

Tentative
Letter
Grades:
A: 90%
B: 80%
C: 70%
D: 56%