

Chemistry 342, Jasperse, Summer 2012 (38 days)		Reading Assignment
Date	Topic	
June 11	No Class	
June 12	Intro; Structure, Nomenclature, Properties, Synthesis Review	4.3-6,
June 13	Synthesis of Alcohols; Grignard Reactions	14.6, 19.12
June 14	Synthesis of Alcohols; Grignard Reactions	14.6,9; 16.12
June 15	Grignard Reactions; Reduction Reactions	14.9; 15.2,4
	Skip: 14.7,8,10-16	
June 18	Acidity of Alcohols, Oxidation of Alcohols	1.14,16; 15.9
June 19	Halogenation of Alcohols	4.7-14
June 20	Synthesis and Retrosynthesis	14.9
June 21	Catchup, Multistep Synthesis Problems; Tosylates;	8.12
June 22	Catchup, Multistep Synthesis Problems	Catchup
	Skip: 15.7,11,12-	
June 25	¹ H NMR Overview: Chemical Shift, Integration, and Splitting; NMR Problem Solving	13.1-6,25
June 26	¹ H NMR Problem Solving	13.4-12
June 27	Test #1 Covering Chapters 14-16.	Test 1
June 28	¹ H NMR Problem Solving	13.4-12
June 29	¹³ C NMR	13.14-19
	Skip: 13.22-24	
July 2	Infrared Spectroscopy	13.21-23
July 3	Integrated Practice Problems	Practice
July 4	No Class	
July 5	Ketones/Aldehydes. Nomenclature, Properties, Intro, Synthesis	17.1-4
July 6	Synthesis and Reactions of Ketones/Aldehydes.	17.5-6
July 9	Reactions of Ketones/Aldehydes	17.7
July 10	Test #2 Covering Chapters 17 and 10.	Test 2
July 11	catchup	17.8,9
July 12	Reactions of Ketones/Aldehydes	17.10, 15-17
July 13	Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile	20.1,13,16
	Skip: 17.11	
July 16	Halogenation; Alkylation; Ester Hydrolysis; Decarboxylation	20.14,9-11
July 17	The Aldol Reaction (Aldehyde/Ketone as Electrophile)	20.3,4
July 18	Claisen Reaction (Ester as Electrophile);	20.5-8
July 19	The Wittig Reaction; Catchup.	17.12,13
July 20	Catchup, Integrated Practice Problems.	Catchup
	Skip: 20.15,17-20	
July 23	Amines, Nomenclature, Properties, Basicity	21.1-4
July 24	Amines, Basicity	21.5-7
July 25	Test #3 Covering Chapters 19, 22, and 23.	Test 3
July 26	Reactions and Synthesis of Amines	21.9-12,17
July 27	Carboxylic Acid Nomenclature and Acidity	18.1-7
	Skip: 21.5,8,13-15,18	
July 30	Synthesis and Reactions of Acids	18.10-18
July 31	Interconversions Among Acids and Derivatives	19.1-11
Aug 1	Interconversions Among Acids and Derivatives, Catchup	19.12-20
Aug 2	Practice Problems, Catchup	-
Aug 3	Test #4 Chapters 24, 20, 21	Test 4