		Chemistry 360, Jasperse, Spring 2020 Wade 8 (43 class days, 39 lectures)		Reading
	Date	Topic		Assignment
1	13-Jan	Intro; Structure, Nomenclature, Properties, Weak Acidity of Alcohols		10.1-10.6
2	15-Jan	Synthesis of Alcohols; Organometallic Reactions.		10.7-10.9
3	17-Jan	Synthesis of Alcohols; Organometallic Reactions.		10.7-10.9
		Skip 10.12		
	20-Jan	No Class. Martin Luther King Day.		no class
4	22-Jan	Side Reactions; Reduction of Carbonyl Compounds		10.10-10.11
5	24-Jan	Oxidation of Alcohols		11.1-11.3
		Skip 11.4, 11.11-13		
6	27-Jan	Conversion of Alcohols to Tosylates or Halides; Uses of Tosylates and Halides		11.5-11.9
7	29-Jan	Miscellaneous; Chemical Tests; Multistep Synthesis		11.10, 11.14
8	31- Jan	Retrosynthetic Analysis		
9	3-Feb	Catchup, Multistep Synthesis Problems		Catchup
10	5-Feb	Review for Test 1		---
11	7-Feb	1H NMR Overview: Chemical Shift, Integration, and Splitting; 1H NMR Problem Solving		13.5-8
12	10-Feb	1H NMR Overview: Chemical Shift, Integration, and Splitting; 1H NMR Problem Solving		13.5-8
T1	12-Feb	**Test #1 Covering Chapters 10-11.**		**Test 1**
13	14-Feb	1H NMR Problem Solving		13.5-8
14	17-Feb	More Problem Solving; Complex Splitting; Stereochemical Nonequivalence of Protons		13.9-10
15	19-Feb	13C NMR; Infrared Spectroscopy		13.12-13; 12.11-12
16	21-Feb	Spectroscopy Catchup, Integrated Problems		catchup
		(Focus on 13.5-8, 12-13; Skim 13.1-4, 9, 10; Skip 11, 14)		
17	24-Feb	Ketones/Aldehydes. Nomenclature, Properties, Intro.		18.1-7
T2	26-Feb	**Test #2 Covering Chapters 12-13. 50 points.**		Test 2
18	28-Feb	Synthesis of Ketones/Aldehydes.		18.7-11
	2-Mar	Reactions of Ketones/Aldehydes		18.12, 14-17, 18-19
	4-Mar	Reactions of Ketones/Aldehydes		18.20-21
	6-Mar	Catchup; Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile		22.1-2, 22.15
		(Skip 18.13, for now….)		
19	9-Mar	No Class, Spring Break		
20	11-Mar	No Class, Spring Break		
21	13-Mar	No Class, Spring Break		
22	16-Mar	Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile		22.1-2, 22.15
23	18-Mar	Halogenation; Alkylation; Double Activation; Ester Hydrolysis; Decarboxylation		22.3, 5, 15-17
24	20-Mar	The Aldol Reaction (Aldehyde/Ketone as Electrophile)		22.7-11
		(Skip 22.4,6. 18, 19)		
25	23-Mar	Claisen Reaction (Ester as Electrophile)		22.12-17
26	25-Mar	Catchup		
27	27-Mar	The Wittig Reaction and Alkene Synthesis; Catchup		18.13
28	30-Mar	Catchup, Integrated Practice Problems.		Catchup
29	1-Apr	Amines. Intro, Nomenclature, Properties; Basicity of Amines; Structural Factors; Salts		19.1-7
T3	3-Apr	**Test #3 Covering Chapters 18 and 22.**		
30	6-Apr	Reactions of Amines		19.10-13, 17-18
31	8-Apr	Diazonium Chemistry; Amine Synthesis by Reductive Amination of Carbonyls		19.17-19
	10-Apr	No Class, Easter Friday		
	13-Apr	No Class, Easter Monday		20.8-11
32	15-Apr	More Synthesis of Amines		19.19
33	17-Apr	Carboxylic Acids: Nomenclature; Properties; *ACIDITY*; Salts; Soap; SYNTHESIS		20.1-5
		(Skip 19.8-9,14-16,24-25)		
34	20-Apr	Acid Synthesis; Reactions		20.8-11
35	22-Apr	Reactions of Acids: Nucleophilic Acyl Substitution; Carboxylic Acid Derivatives		20.13-15; 21.1-3
36	24-Apr	Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup		21.5-7
		(Skip 20.6,7,12; Skip 21.4))		
37	27-Apr	Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup		21.5-7
38	29-Apr	Practice Problems		-
39	1-May	Catchup		
T4	4-May	**Test #4 Chapters 19-21**		Test 4
	12-May	**Final Exam, 11:30am., Tuesday**		**Final Exam**