		Chemistry 360, Jasperse, Spring 2025 Wade 9 (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
		*Note: some lectures for a later test come before an earlier test has been completed.		
T1	10-Feb	**Test #1 Covering Chapters 10-11.**		**Test 1**
12	12-Feb	1H NMR Overview: Chemical Shift, Integration, and Splitting; 1H NMR Problem Solving		13.5-8
13	14-Feb	1H NMR Problem Solving		13.5-8
14	17-Feb	No classes (Non-Instructional Day)		
15	19-Feb	More Problem Solving; Complex Splitting; Stereochemical Nonequivalence of Protons		13.9-10
16	21-Feb	13C NMR; Infrared Spectroscopy		13.12-14
		(Focus on 13.5-8, 12-13; Skim 13.1-4, 9, 10; Skip 11, 14)		
	24-Feb	Spectroscopy Catchup, Integrated Problems		catchup
17	26-Feb	Ketones/Aldehydes. Nomenclature, Properties, Intro.		18.1-7
T1	28-Feb	**Test #2 Covering Chapters 12-13. 50 points.**		Test 2
18	3-Mar	Synthesis of Ketones/Aldehydes.		18.7-11
19	5-Mar	Reactions of Ketones/Aldehydes		18.12-17
20	7-Mar	Carbonyls, Carbohydrates, and Condensation Polymers		18.19-20
		(Skip 18.13, for now….)		
	10-Mar	No Class, Spring Break		
	12-Mar	No Class, Spring Break		
	14-Mar	No Class, Spring Break		
21	17-Mar	Catchup; Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile		22.1-2, 22.15
22	19-Mar	Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile		22.1-2, 22.15
23	21-Mar	Halogenation; Alkylation; Double Activation; Ester Hydrolysis; Decarboxylation		22.3, 5, 15-17
		(Skip 22.4,6. 18, 19)		
24	24-Mar	The Aldol Reaction (Aldehyde/Ketone as Electrophile)		22.7-11
25	26-Mar	Claisen Reaction (Ester as Electrophile)		22.12-17
26	28-Mar	Catchup		
27	31-Mar	The Wittig Reaction and Alkene Synthesis; Catchup		18.18
28	2-Apr	Catchup, Integrated Practice Problems.		Catchup
29	4-Apr	Reactions of Amines		19.1-7
30	7-Apr	Amines. Intro, Nomenclature, Properties; Basicity of Amines; Structural Factors; Salts		19.9-12, 16-17
T3	9-Apr	**Test #3 Covering Chapters 18 and 22.**		
31	11-Apr	Reactions of Amines. Proteins: Condensation Polymers of Amino Acids.		19.16-18
32	14-Apr	More Synthesis of Amines		19.18
33	16-Apr	Carboxylic Acids: Nomenclature; Properties; *ACIDITY*; Salts; Soap; SYNTHESIS		20.1-5
	18-Apr	No classes (Non-Instructional Day, Easter weekend)		
		(Skip 19.8-9,14-16,24-25)		
34	21-Apr	Acid Synthesis; Reactions		20.8-11
35	23-Apr	Reactions of Acids: Nucleophilic Acyl Substitution; Carboxylic Acid Derivatives		20.13-15; 21.1-3
36	25-Apr	Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup		21.5-7
		(Skip 20.6,7,12; Skip 21.4))		
37	28-Apr	Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup		21.5-7
38	30-Apr	Practice Problems		Practice
39	2-May	Practice Problems, Catchup. Polymers Chemistry. Addition, Condensation, Biopolymers.		26.1-4, 24.8-10, 23.13
T4	**5-May**	**Test #4 Chapters 19-21**		Test 4
	13-May	**Final Exam, 11:30am., Tuesday**		**Final Exam**