Schedule: Which Lecture Videos and Practice-Set Videos Go with Each Test

	Chemistry 360, Jasperse, Wade 8 (43 class days, 39 lectures) Other version or other textbooks, if you bought the cheaper Version 7 (or 6): http://web.mnstate.edu/jasperse/Chem360/Other%20Books-Problems%20and%20Readings%20342/Other%20Books-Problems%20and%20Readings.htm		Reading
Video	Topic		Assignment
	TEST 1 LECTURES. Alcohol Chemistry. Synthesis, Reactions, Retrosynthesis		
1	Intro; Structure, Nomenclature, Properties, Weak Acidity of Alcohols		10.1-10.6
2	Synthesis of Alcohols; Organometallic Reactions.		10.7-10.9
3	Synthesis of Alcohols; Organometallic Reactions.		10.7-10.9
4	Side Reactions; Reduction of Carbonyl Compounds		10.10-10.11
5	Oxidation of Alcohols		11.1-11.3
6	Conversion of Alcohols to Tosylates or Halides; Uses of Tosylates and Halides		11.5-11.9
7	Miscellaneous; Chemical Tests; Multistep Synthesis		11.10, 11.14
8	Retrosynthetic Analysis		
9	Catchup, Multistep Synthesis Problems		Catchup
10	Review for Test 1		---
	Additional Practice Sets/Videos: Retrosynthesis Problems; Acid-Base Practice; Mechanisms Problems **Test 1 Practice Tests**: V1, V2, V3, V4		
	TEST 2 LECTURES. NMR and Spectroscopy		
11	1H NMR Overview: Chemical Shift, Integration, and Splitting; 1H NMR Problem Solving		13.5-8
12	H-NMR Interpretation and Problem Solving		13.5-8
13	Overlap, Symmetry, Integration, Splitting, Spectrum Prediction		13.5-8
14	More Problem Solving; Complex Splitting; Stereochemical Nonequivalence of Protons		13.9-10
15	13C NMR; Infrared Spectroscopy		13.12-14
16	Spectroscopy Catchup, Integrated Problems		catchup
	Additional Practice Sets/Videos: Jasperse NMR Problems (>40 pages) **Test 2 Practice Tests**: V1, V2, V3, V4		
	TEST 3 LECTURES. Carbonyls Chemistry; Enolates.		
17	Ketones/Aldehydes. Nomenclature, Properties, Intro.		18.1-7
18	Synthesis of Ketones/Aldehydes.		18.7-11
19	Reactions of Ketones/Aldehydes		18.13-20
20	Carbonyls and Condensation Polymers.		18.20-21
21	Catchup; Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile		22.1-2, 22.15
22	Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile		22.1-2, 22.15
23	Halogenation; Alkylation; Double Activation; Ester Hydrolysis; Decarboxylation		22.3, 5, 15-17
24	The Aldol Reaction (Aldehyde/Ketone as Electrophile)		22.7-11
25	Claisen Reaction (Ester as Electrophile)		22.12-17
26	Catchup		
27	The Wittig Reaction and Alkene Synthesis; Catchup		18.12
28	Catchup, Integrated Practice Problems.		Catchup
	Additional Practice Sets/Videos: Mechanism Practice (Many); Retrosynthesis Practice **Test 3 Practice Tests**: V1, V2, V3		
	TEST 4 LECTURES		
29	Amines. Intro, Nomenclature, Properties; Basicity of Amines; Structural Factors; Salts		19.1-7
30	Reactions of Amines		19.9-12, 16-17
31	Diazonium Chemistry; Amine Synthesis by Reductive Amination of Carbonyls		19.16-18
32	More Synthesis of Amines		19.18
33	Carboxylic Acids: Nomenclature; Properties; *ACIDITY*; Salts; Soap; SYNTHESIS		20.1-5
34	Acid Synthesis; Reactions		20.8-11
35	Reactions of Acids: Nucleophilic Acyl Substitution; Carboxylic Acid Derivatives		20.13-15; 21.1-3
36	Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup		21.5-7
37	Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup		21.5-7
38	Practice Problems		-
39	Significant Special Topics; Preview of ACS Final Exam		Practice
	Additional Practice Sets/Videos: Acid-Base Practice (Easy); Acid-Base Practice (Less Easy); Mechanisms, Retrosynthesis + Synthesis Design **Test 4 Practice Tests**: V1, V2, V3		
	Final Exam, Cumulative.		Final Exam