

**PLANNING SCHEDULE - CHEM 301 Fall 2018 (Hanna) (Revised 11/7/2018)**

**NOTE:** This schedule is tentative and subject to change at the professor's discretion. Any changes to the schedule will be announced during lecture.

Week of	Day	Topic(s)	Text Sections	Recommended Study Problems
20-Aug-18	W	Introduction, Molecular structure and bonding, resonance	1.1-1.14	<b>Ch. 1:</b> 40, 42, 43, 46, 48, 49, 52, 55, 56, 58, 60, 61, 63-65, 67, 68, 70-72, 75, 80, 84
	F			
27-Aug-18	M	Nomenclature 1: Alkanes, substituted alkanes	4.1-4.6, 7.2, 9.3(B), 9.15(B)	<b>Ch. 4:</b> 38, 40, 41; <b>Ch. 7:</b> 42(a-e), 43(a-c) <b>Ch. 9:</b> 41(a,b,d)
	W			
	F			
3-Sep-18	M	<b>Labor Day (Sept. 3)</b> <b>No Class</b>		
	W	Nomenclature 2: Functional groups, alcohols, thiols, amines, alkenes, alkynes	3.1-3.2, 9.3(A), 9.15(A), 10.3(A), 11.2, 25.3(A,B)	<b>Ch. 3:</b> 36-38; <b>Ch. 9:</b> 40, 41(e), <b>Ch. 10:</b> 38, 39(a,c,d,f-h, ignore E/Z), <b>Ch. 11:</b> 26(a-e), 27(a,b,e); <b>Ch. 25:</b> 38(a-c,g,h), 39(b,e,f,h, ignore (S))
	F			
10-Sep-18	M	<b>9/10/18: Exam # 1 (Structure and bonding, nomenclature)</b>		Unit 1 Review Problems (found on course webpage)
	W	Spatial relationships in organic molecules: Conformational analysis	4.9-4.13	<b>Ch. 4:</b> 45-49, 52, 53, 55, 56, 58, 59-61, 71
	F	<b>Winthrop Closed (Hurricane Florence)</b> <b>No Class</b>		
17-Sep-18	M	<b>Winthrop Closed (Hurricane Florence)</b> <b>No Class</b>		
	W	Spatial relationships in organic molecules: Conformational analysis	4.9-4.13	<b>Ch. 4:</b> 45-49, 52, 53, 55, 56, 58, 59-61, 71
	F	Spatial relationships in organic molecules: Stereochemistry	5.1-5.13	<b>Ch. 5:</b> 38, 40-42, 44, 46-48, 51, 52, 54, 56, 59, 61, 63, 64
24-Sep-18	M			
	W	Intermolecular forces in organic molecules	3.3-3.8	<b>Ch. 3:</b> 39, 41-43, 45, 48, 49, 51, 55
	F	<b>9/28/18: Exam # 2 (Functional groups, intermolecular forces, spatial relationships in organic molecules)</b>		Unit 2 Review Problems (found on course webpage)
1-Oct-18	M	Acids and bases	2.1-2.8	<b>Ch. 2:</b> 38-42, 44, 47, 49-51, 54, 57, 59, 63-65, 67-69, 71, 73, 78
	W			
	F			
8-Oct-18	M	Organic reactions: mechanisms and energetics	6.1-6.10	<b>Ch. 6:</b> 28-31, 33, 38, 39, 42-44, 46-48, 50, 55
	W			

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	F	<b>Fall Break (Oct. 12 - 15)</b> <b>No Class</b>		
	M			
15-Oct-18	W	<b>10/17/18: Exam # 3 (Acids and bases, reaction mechanisms, energetics)</b>		Unit 3 Review Problems (found on course webpage)
	F			<b>Ch. 7:</b> 46-51, 53-63, 67-69, 73, 75
22-Oct-18	M	Reactions of the C-Z bond 1: Substitutions and eliminations of alkyl halides	7.5-7.15, 7.17-7.18 8.1-8.11	<b>Ch. 8:</b> 27, 28,31, 33, 35, 37-39, 44-46, 50, 51, 53-56, 58, 59, 63
	W			
29-Oct-18	F	Reactions of the C-Z bond 2: Substitutions and eliminations of alcohols, ethers, and related compounds	9.5-9.16, 12.6	<b>Ch. 9:</b> 45-48, 50, 52, 53, 54, 56, 58, 59, 61, 62, 65, 66, 69, 71, 72
	M			
	W			
	F	<b>11/2/18: Exam # 4 (Reactions of the C-Z bond)</b>		Unit 4 Review Problems (found on course webpage)
5-Nov-18	M			<b>Ch. 10:</b> 46(except f)-49, 51(except c)-54, 56, 58, 60, 61
	W	Additions to nonpolar pi-bonds: alkenes and alkynes	10.5-10.18, 11.6-11.11, 12.3-12.8	<b>Ch. 11:</b> 28, 29, 33, 36, 38 <b>Ch. 12:</b> 38(a,b,k,l), 40(c,d)
	F			
12-Nov-18	M			<b>Ch. 16:</b> 31-33, 41, 43-45, 58(a,b), 59, 62
	W	Dienes, aromaticity, resonance effects	16.1-16.11, 17.5-17.8	<b>Ch. 17:</b> 30, 31
	F	Introduction to Organic Synthesis	11.12	<b>Ch. 10:</b> 64, 65; <b>Ch. 11:</b> 51-53; <b>Ch. 12:</b> 61, 63, 66 (b,c,d)
19-Nov-18	M	<b>11/19/18: Exam # 5 (Additions to nonpolar pi-bonds, synthesis, dienes, resonance effects)</b>		Unit 5 Review Problems (found on course webpage)
	W	<b>Thanksgiving Holiday (Nov. 21 - 23)</b> <b>No class</b>		
	F			
26-Nov-18	M			<b>Ch. 13:</b> 25, 31, 34, 38, 41-43, 45, 47
	W	Structure determination 1: UV, MS, IR	13.1-13.2, 13.6-13.8, 16.15	<b>Ch. 16:</b> 66-68
	F			<b>Ch. 14:</b> 37, 40-42, 48, 50, 53, 58-60, 64-68, 70, 71
3-Dec-18	M	Structure determination 2: NMR	14.1-14.11	Unit 6 Review Problems (found on course webpage)
	R	<b>Final Exam, Units 1 - 6 (8:00 am on Thursday, 12/6 in Sims 105)</b> Problem Sets for units 1-6 can be found on course webpage		