

We may get slightly behind this schedule....check the **lecture topic** column and make sure it matches with the most recent lecture before starting those problems (unless you'd like to work ahead).

Note: **Most of these are in-chapter problems, not at the end of the chapter!** Chapter one problems are listed as 1.3, 1.4, 1.10, 1.54, etc. in the text.

<i>Date</i>	<i>Lecture Topic</i>	<i>Text Sections</i>	<i>Homework (4th edition)</i>
Aug 31	Lewis Structures, Formal Charge, Bonding	1.3 – 1.5	Ch 1. 3, 4, 6, 7, 8, 9, 10, 11, 33, 35, 54 Most of these are in-chapter problems, not at the end of the chapter!
Sep 2	Bonding and Hybridized Orbitals; VSEPR Geometry	1.7 – 1.11	Ch 1. 15, 16, 19, 20, 21, 22, 23, 40, 45, 48
Sep 4	Intermolecular Forces	1.12 – 1.13	Ch 1. 24, 25, 49, 50, 55, 56, 60
	No Recitation		
Sep 7	Labor Day - No Class		
Sep 9	Drawing Organic Compounds, Functional Groups	1.6, 2.1 – 2.6	Ch 1. 13, 14, 28, 30, 31, 58 Ch 2. 1, 2, 3, 4, 5 (skip m), 7, 37, 38, 40, 82
Sep 11	Naming Alkanes; Isomerism	4.1 – 4.2	Ch 4. 1, 4, 5
	Quiz 1		
Sep 14	Alkane and Cycloalkane Conformations	4.3, 4.6 – 4.9	Ch 4. 8, 9, 10, 14, 16, 17, 19, 36 a-i (skip j and k), 37, 38, 40ab, 41, 42 47a (can also attempt 47b and 47c)
Sep 16	Cyclohexane Conformations	4.9-4.14	Ch 4. 21, 23 (practice drawing cyclohexane), 24, 28, 30, 51
Sep 18	Exam 1 (during lecture period)		
Sep 21	Stereochemistry	5.1 – 5.3	Ch 5. 4, 5, 7a-f, 33b
Sep 23	Stereoisomer Relationships	5.5-5.8, 5.11	Ch 5. 9, 10, 19, 20, 31, 33, 36, 37 (book says "stereoisomers" but means "configurational isomers" - the 2 nd thing from class), 38 (skip d), 39 (skip f), 44 (skip a) 45 The solutions manual considers conformers to be the "same"

			molecule," since conformers can be interconverted via rotation of single bonds in solution and can't be isolated from each other.
Sep 25	Physical Properties of Stereoisomers	5.4	Ch 5. 15, 16, 17, 18, 40, 54
	Quiz 2		
Sep 28	Resonance	2.7 – 2.12	Ch 2. 12-20, 25 (skip a,h,j), 26, 29, 47, 52bdf, 53, 60, 62, 64, 65, 69, 70, 71, 72 This one is long, in the interest of giving you lots of options for practicing with resonance. The early problems walk you through each part of the thought process. Feel free to skip toward the end as you feel comfortable.
Sep 30	Intro to Arrow Pushing, Quantitative Acid / Base	3.1 – 3.3	Ch 3. 1-7, 10, 11, 37, 38 (when Na appears, it is part of an ionic compound. Na has a +1 charge. Focus on the anion.), 39, 43, 48
Oct 2	Qualitative Acid / Base	3.4 – 3.5	Ch 3. 13, 15, 17, 18, 19, 21, 23, 24, 25, 46, 47, 49, 50, 51
	Quiz 3		
Oct 5	Alkyl Halide Nomenclature and S _N 2 Reactions	7.1 – 7.4	Ch 7. 1, 2, 3, 5, 47, 53, 55
Oct 7	S _N 2 Continued	7.3 – 7.4	No additional problems from previous class
Oct 9	Exam 2		
Oct 12-16	Fall Break (no class)		
Oct 19	E2 Reactions & Alkene Nomenclature	7.5 – 7.6 8.3	Ch 7. 9, 10, 62, 65 Ch 8. 1, 2, 4, 47 (skip c)
Oct 21	E2 Regiochemistry & Stereochemistry	7.7	Ch 7. 12, 13, 15, 17, 19, 58, 60, 61, 63, 64, 66, 68
Oct 23	S _N 1 and E1	7.8	21, 23, 24, 26, 72
	Quiz 4		
Oct 26	Predicting Substitution vs Elimination Products	7.9	Ch 7. 27, 28, 32 (skip e,f) 69 (skip a,b), 71 (skip b,c), 75 (skip j), 76, 79, 94, 96, 101
Oct 28	Predicting Substitution vs Elimination Products	7.9	
Oct 30	Alkene Addition / Hydrohalogenation	8.1, 8.2, 8.4, 8.5	Ch 8. 5 (skip b and f), 6, 7, 9, 10, 14, 15a, 51
	Quiz 5		

Nov 2	Hydration Reactions	8.6 – 8.8	Ch 8. 16, 20, 35 (a,e,f,h only), 39 (skip c,d)
Nov 4	Hydrogenation, Halogenation & Dihydroxylation	8.9 – 8.12	Ch 8. 22, 24, 25, 26, 31, 36, 49, 74
Nov 6	Exam 3		
Nov 9	Oxidative Cleavage & Predicting Products	8.13 – 8.14	Ch 8. 32, 33, 35 (skip c,g), 36, 39 (skip c), 42 (skip b,d), 45 (skip c,d), 67, 69, 81, 82, 83, 90
Nov 11	Synthesis and Reactivity of Epoxides	13.8 & 13.10	Ch 8. 28, 29, 50, 64d Ch 13. 13, 16bce, 18, 38bcde
Nov 13	Alkyne Reactions	7.10 9.3 – 9.6	Ch 7. 32, 33, 34, 69ab, 71bc, 75j Ch 8. 42, 57acd Ch 9. 1, 2, 5, 7, 32, 33, 35, 38
	Quiz 6		
Nov 16	Alkyne Reactions continued	9.7 – 9.10	Ch 9. 9, 10, 11, 13 (skip e), 14, 24, 34, 37 (skip bottom two structures), 41ad, 48bcef, 52bc
Nov 18	Radicals Introduction	10.1 – 10.3	Ch 10. 1, 2, 3, 5, 6, 7, 8, 10ace, 24, 27
Nov 20	Radicals and Selectivity	10.5 – 10.7, 10.10	Ch 10. 12, 14, 16, 21, 28, 34, 35, 36, 41
	Quiz 7		
Nov 23	Radicals in Life	10.8 – 10.9	Ch 10. 30, 33, 37, 39, 40
Nov 25	Conjugated Pi Systems	16.1 – 16.3	Ch 16. 1, 3, 4, 31, 33
Nov 27	Thanksgiving Break (no class)		
Nov 30	UV-Vis Spectroscopy / Addition to Conjugated Dienes	16.11, 16.4, 16.5	Ch 16. 6, 7, 9, 10, 35, 36, 38, 41, 47
Dec 2	Catch-up/Exam 4 Review		
Dec 4	Exam 4		
Dec 7	Introduction to Aromaticity	17.1, 17.3-17.4	Ch 17. 8, 10-15, 30, 32, 34, 37, 39
Dec 9	Final Exam Review and Course Evaluations		
TBD (scheduled)	Final Exam		

