CHEMISTRY 209, ELEMENTARY ORGANIC CHEMISTRY FALL 2022

Syllabus

Textbooks: Hart et al "Organic Chemistry, A Short Course" 13th Edition, Cengage Hart et al "Study Guide and Solutions Manual" accompanying the textbook

Lec	Dates ¹	Topic	Reading ²	Problems ³
0	8/22-	Get Ready	Pp 1-13, xxv-	Gen Chem as needed
	9/5		xxviii	
1	9/6	Drawing Structures	Sec 1,9, 1.11-	DS; R on Canvas; In
		(DS); Resonance(R)	1.13, Canvas	Chapter
			Files	
2	9/8	Condensed	Sec 1.10, 1.14-	CF, CS, O on Canvas; In
		Formulas (CF);	1.16, Canvas	Chapter
		Carbon	Files	
		Skeletons(CS);		
		Orbitals (O);		
		Classification		
3	9/13	Alkanes,	2.1-2.8	In Chapter
		Nomenclature		2.26, 27, 31, 35, 38
4	9/15	Conformations,	2.8-2.12	In Chapter
		Cycloalkanes		2.40, 42, 45, 46, 47, 54
5	9/20	Alkenes	3.1-3.10	In Chapter
				3.33-35, 38-39
6	9/22	Quiz 1 Lec 1-4;	3.11-3.16	In Chapter
		Alkenes, Reactions		3.43,44, 50, 52, 53
7	9/27	Aromatic	4.1-4.7	In Chapter
		Compounds		4.20, 21,25,26
8	9/29	Aromatic	4.8-4.13	In Chapter
		Compounds	5.1-5.4	4.30a, 31,32, 44, 49
		Stereoisomerism		
9	10/4	Stereoisomerism	5.5-5.12	In Chapter
				5.27,31,33,36,39,44,54,58
10	10/6	Organic Halogen	6.1-6.9	In Chapter
		Cpds		6.11, 17, 20, 26
		Pre-Exam Review		

	10/11	Exam I Lec. 1-9		
11	10/13	Alcohols, Phenols,	7.1-7.14, 7.17	In Chapter
		Thiols		7.26, 29, 36, 40, 42, 43,
				47
12	10/18	Ethers, Epoxides	8.1-8.9	In Chapter
	10,10		0.1	8.16, 19, 24, 29, 34, 37,
				40
13	10/20	Aldehydes, Ketones	9.1-9.11	In Chapter
		,		9.30-32, 41, 43, 45, 47
14	10/25	Aldehydes, Ketones	9.12-9.19	In Chapter
		,		9.48-50, 53, 56, 57
15	10/27	Carboxylic Acids	10.1-10.7	In Chapter
16	11/1	Quiz 2 Lec 10-13	10.8-10.17	In Chapter
		Carboxylic Acid		10.37; 38; 42a,b,e; 43
		Derivatives		
17	11/3	Carboxylic Acid	10.18-10.22	In Chapter
		Derivatives		10. 44; 45; 49; 52; 55; 60;
				61; 62
18	11/8	Amines	11.1-11.5	In Chapter 11.23-26
19	11/10	Amines	11.6-11.13	In Chapter 11. 27; 29, 33,
				34, 40, 42, 43
20	11/15	Spectrospcopy	12.1-12.3	In Chapter
21	11/17	Spectroscopy	12.4-12/6	In Chapter 12.19,
				22, 28, 31, 34, 35, 37, 39,
				48, 49
22	11/22	Heterocyclic	13.1-13.7	In Chapter 13.11,
		Compounds		13-15, 17, 19, 22, 27
		Pre-Exam Review		
	11/29	Exam II Lec 10-19		
23	12/1	Carbohydrates	16.1-16.17	In Chapter
				16.16, 23, 25, 30, 36, 37,
_				39, 42, 52
24	12/6	Proteins	17.1-17.10a,	In Chapter
			17.13-17.15	17.24, 26, 28, 38, 51,
	4 = 1 =		10	59-61.
25	12/8	Nucleic Acids	18.1-18.12	In Chapter
				18.9, 11, 13-15, 19, 20,
				27, 29, 32

12/13	Review	Ch 1-13, 16-18	
12/22	Final Exam		
4-			
7PM			

¹ These are the dates of the class connected to the listed lecture ² Pp and Sec refer to pages or sections in your textbook. Canvas refers to a folder in Files with the name of one of the topics of the lecture Read before and after listening to the lecture.

³ You should do all the in-text problems in the assigned reading sections and check your answers in the Solutions Manual **after** you make a serious attempt to solve the problem.

The same applies to the assigned End-of-Chapter problems in the book. Problems from Canvas start with the initials of their file followed by numbers. There will be an assignment for every chapter we cover. Each one will have a due date about a week after the lectures on the chapter. It is very likely that some of the homework problems will appear on quizzes and exams.