

The University of Missouri at Columbia
Chemistry 2030 – Survey of Organic Chemistry - Fall Semester 2012

Schedule (tentative, last update 11/18/12)

Week	Day/Date	Chapter & Topic	Main Learning Goals: Structure, Property, Reactivity, Function
1	T, 8/21	Syllabus & Start Chapter 1	Lewis Structures
	R, 8/23	Ch1 Bonding & Isomerism	Bond Polarity
2	T, 8/28	Ch2 Alkanes	Conformation, Radical
	R, 8/30	Ch2 Alkanes	Halogenation, <i>E/Z</i> -Isomers
3	T, 9/4	Ch3 Alkenes and Alkynes	Elect. Addition
	R, 9/6	Ch3 Alkenes and Alkynes	
4	T, 9/11	Ch4 Aromatic Compounds	Electr. Arom. Substitution
	R, 9/13	TEST #1 Chapters 1 - 3	
5	T, 9/18	Ch4 Aromatic Compounds	
	R, 9/20	Ch5 Stereochemistry	Chirality, <i>R/S</i>
6	T, 9/25	Ch5 Stereochemistry	
	R, 9/27	Ch6 Halogen Compounds	Nucl. Substitution, Elimination
7	T, 10/2	Ch6 Halogen Compounds	Carbanion Chemistry
	R, 10/4	TEST #2 Chapters 4 - 6	
8	T, 10/09	Ch7 Alcohols, Phenols & Thiols	
	R, 10/11	Ch7 Alcohols, Phenols & Thiols	Oxidation & Reduction
9	T, 10/16	Ch8 Ethers & Epoxides	
	R, 10/18	Ch9 Aldehydes & Ketones	Nucl. Addition to C=O
10	T, 10/23	Ch9 Aldehydes & Ketones	
	R, 10/25	TEST #3 Chapters 7, 8, parts of 9	
11	T, 10/30	Ch10 Carboxylic Acids et al.	Acidity
	R, 11/01	Ch10 Carboxylic Acids et al.	Ester & Amide Form.
12	T, 11/6	Ch15 Lipids & Detergents	Amphiphiles, Bilayers
	R, 11/8	Ch11 Amines	Basicity, Deamination
13	T, 11/13	Ch12 Spectros. & Struct. Determ.	Identification
	R, 11/15	TEST #4 rest of 9, 10, 11	
14	T, 11/20	Thanksgiving	
	R, 11/22	Thanksgiving	Natural Polymers for ...
15	R, 11/27	Ch13 Heterocycles	... Energy Prod. & Storage
	T, 11/29	Ch16 Carbohydrates	... Infrastruc. & Manufact.
16	R, 12/04	Ch18 Nucleotides & Nucleic Acids	... Information Storage
	T, 12/06	Ch18 Nucleotides & Nucleic Acids	
17		TEST#5 – FINAL: Comprehensive, questions inspired by 13, 15, 16 & 18	

*) Tests will take 50 minutes and there will be lecture in the remainder of the meeting time.