

Jan. 12	Chap. 11	Oxidation of alcohols; formation of sulfonates
14	Chap. 11	Displacement of alcohols; alcohols as nucleophiles
16	Chap. 12	IR Spectroscopy
19	Holiday: Martin Luther King, Jr. Birthday	
21	Chap. 12	Mass Spec
23	Chap. 13	NMR Spectroscopy – ^1H NMR: General principles; chemical shift and coupling
26	Chap. 13	NMR Spectroscopy – complex coupling
28	Chap. 13	NMR Spectroscopy – ^{13}C NMR
30	Chap. 13	Structure Elucidation Using MS, ^1H NMR, ^{13}C NMR
Feb. 2	NO LECTURE (Help Session)	
3	FIRST HOUR EXAM, 8:00-9:30 pm, PHYS 112, 114	
4	Chap. 14	Ethers – Physical properties, nomenclature, spectroscopy, formation
6	Chap. 14	Reactions of ethers, sulfides, epoxides
9	Chap. 15	Structure, stability & UV-Vis of dienes
11	Chap. 15	Kinetic vs. thermodynamic control; addition reactions; allylic reactivity
13	Chap. 15	Diels-Alder reaction: conformation & stereochemical outcome
16	Chap. 16	Resonance & aromaticity
18	Chap. 16	Nomenclature & spectroscopy of benzene & its derivatives
20	Chap. 17	Electrophilic aromatic substitution of benzene & its derivatives
23	Chap. 17	Factors influencing electrophilic aromatic substitution reactions
25	Chap. 17	Factors influencing electrophilic aromatic substitution reactions
27	Chap. 17	Nucleophilic substitution reactions of aryl halides & aromatics; benzylic rxns
Mar. 2	NO LECTURE (Help Session)	
3	SECOND HOUR EXAM, 8:00-9:30 pm, PHYS 112, 114	
4	Chap. 17	Acidity, oxidation reactions & electrophilic substitution reactions of phenols
6	Chap. 18	Nomenclature & spectroscopy of aldehydes & ketones
9	Chap. 18	Synthesis of aldehydes & ketones; Carbonyl addition reactions - reversible rxns
11	Chap. 18	Carbonyl addition reactions - reduction & Grignard reaction
13	Chap. 18	Carbonyl addition reactions of aldehydes & ketones- acetal & imine reactions
16-20	SPRING BREAK	
23	Chap. 19	Nomenclature, basicity, spectroscopy, & alkylation/elimination Rxs of amines
25	Chap. 19	Diazotization reactions & synthesis of amines
27	Chap. 20	Nomenclature, structure, acid-base properties & spectroscopy of carboxylic acids
30	Chap. 20	Synthesis & reactions of carboxylic acids
Apr. 1	Chap. 20	Conversion of carboxylic acids into esters, acid chlorides and anhydrides
3	Chap. 21	Nomenclature, basicity & spectroscopy of carboxylic acid derivatives
6	Chap. 21	Hydrolysis & nucleophilic acyl substitution Rxs of carboxylic acid derivatives
8	NO LECTURE (Help Session)	
9	THIRD HOUR EXAM, 8:00-9:30 pm, PHYS 112, 114	
10	Chap. 21	Reduction and organometallic Rxs of carboxylic acid derivatives
13	Chap. 22	Acidity, enolization & α -halogenation
15	Chap. 22	Aldol addition and aldol condensation
17	Chap. 22	Condensation reactions involving ester enolates
20	Chap. 22	Alkylation of ester enolates & conjugate addition reactions
22	Chap. 23	Classification, structure & isomerization of aldoses & ketoses
24	Chap. 23	Reactions of carbohydrates; disaccharides & polysaccharides
27	Chap. 23	Functional group chemistry of carbohydrates; nucleic acids
29	Chap. 24	Nomenclature, amphoteric properties & synthesis of amino acids
May 1	Chap. 24	Structure of peptides & proteins; solid phase synthesis of peptides