DATES	TOPICS	READING
	ALKENES: Recap and Reactions	
3/31-4/4	The alkene double bond: a focus of reactivity.	7.1, 7.2, 7.4, 7.5, 7.7,
	Polar and concerted addition reactions.	8.1, 8.2
	Hydrogenation, addition of HX (Markovnikov addition), halogenation.	8.3-8.5, 8.7, 8.8, 8.10, 8.11
	Epoxidation, hydroboration (anti-Markovnikov addition), osmylation and ozonolysis	8.12-8.15
	Alkene polymerization	8.16
	ALKYNES: Structure and bonding	
4/7	Introduction to the alkyne triple bond	9.1-9.5
	ALKYNES: Synthesis and Reactions	
4/9-4/11	Alkylation of acetylide anions (a carbon nucleophile)	9.6, 9.7
	Addition reactions to alkynes, hydrogenation, halogenation and HX. Hydration of alkynes, tautomerization.	9.9
4/14	**Exam # 3 (material from 3/12-4/11)**	
	ALCOHOLS: Structure, synthesis and reactions	
4/16-4/18	Structure and bonding. Acidity (brief review)	10.1-10.6
	Synthesis of alcohols (methods to date and new strategies)	10.7
	Organometallic reagents, reactivity and basicity.	10.8
	Reaction of carbonyl compounds with Grignard and organolithium reagents	10.9-10.12
	REDOX relationships amongst alcohols, aldehydes and ketones and carboxylic acids.	10.11,11.1-11.3
	Alcohols as nucleophiles (formation of alkoxides) and electrophiles (formation of tosylates). Esterification.	11.5-11.9, 11.12, 11.14
	(April 21, no class - Patriots day)	
	AROMATIC COMPOUNDS: Structure and Reactions	
4/23-4/25	2, 3, and 4 pi electron systems	15.1-15.4
	Benzene - the prototypic aromatic system. What is "aromaticity"? Huckel's rule. Identifying aromatic systems. Charged and neutral species. Polycyclics and heterocyclic.	16.1-16.10. 16.13
	Reaction chemistry of aromatic compounds - electrophilic aromatic substitution: halogenation, nitration, sulfonylation and Friedel-Crafts alkylation and acylation.	17.1-17.5, 17.10-17.11
4/28-4/30	Directing effects in electophilic aromatic substitution	17.6-17.9,
	Nucleophilic aromatic substitution	17.12
	Strategies in the synthesis of multisubstituted benzene derivatives	
	CARBONYL COMPOUNDS:	
5/2	Summary of various types of carbonyl compounds - aldehydes and ketones, carboxylic acids and carboxylic acid derivatives (acid chlorides, acid anhydrides, esters and amides).	18.1-18.4
5/5	**EXAM #4 (material from 4/14-4/30)**	
5/7-5/9	Synthesis of aldehydes and ketones.	18.7, 18.9, 18,11
	Reactions of carbonyl compounds with the carbonyl group as an electrophile with H, C, N and O nucleophiles.	18.12-18.21
5/12	Carbonyl reactivity at the alpha C-H (enols and enolates)	22.1-22.5
5/14	**WRAP UP!!!!**	