

| Chemistry 342, Jasperse, Summer 2009 (38 days) | | Reading Assignment |
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| Date | Topic | |
| June 15 | No Class | |
| June 16 | Intro; Conjugation, Molecular Orbitals, Dienes, Allylic Cations, Additions to Dienes | 14.1-2 |
| June 17 | More allylic cations/radicals/conjugation and Applications; Diels-Alder Reaction | 14.3-4 |
| June 18 | Diels-Alder Reaction, Aromaticity | 14.4-5 |
| June 19 | Aromaticity; Huckel's Rule, Complex Aromaticity, Application, Nomenclature Skip: 14.6-10 | 15.1-8 |
| June 22 | Electrophilic Aromatic Substitution: Intro, Mechanisms | 16.1-5 |
| June 23 | Reactions in Detail: Halogenation, Nitration, Sulfonation, Alkylation, Acylation | 16.1-5 |
| June 24 | Catchup; Addition to Disubstituted Benzenes; Synthetic Applications | 16.6,9-11 |
| June 25 | Synthetic Applications; Practice | Practice |
| June 26 | Structure, Nomenclature, Properties, Acidity of Alcohols, Synthesis Review Skip: 16.7-8 | 17.1-3 |
| June 29 | Synthesis of Alcohols; Grignard Reactions | 10.7, 17.5 |
| June 30 | Test #1 Covering Chapters 14-16. | Test 1 |
| July 1 | Synthesis of Alcohols; Grignard Reactions | 17.5 |
| July 2 | Grignard Reactions; Reduction Reactions | 17.5, 17.4 |
| July 3 | No Class Skip: 17.8-11 | |
| July 6 | Oxidation of Alcohols | 17.6 |
| July 7 | Halogenation of Alcohols | 10.6, 17.6 |
| July 8 | Synthesis and Retrosynthesis | |
| July 9 | Catchup, Multistep Synthesis Problems | Catchup |
| July 10 | Ketones/Aldehydes. Nomenclature, Properties, Intro, Synthesis | 19.1-2 |
| July 13 | Synthesis and Reactions of Ketones/Aldehydes. | 19.2, 4-7 |
| July 14 | Test #2 Covering Chapters 17 and 10. | Test 2 |
| July 15 | Reactions of Ketones/Aldehydes | 19.4-10 |
| July 16 | Reactions of Ketones/Aldehydes | 19.4-10 |
| July 17 | Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile Skip: 19.11-14 | 22.1, 5-6 |
| July 20 | Halogenation; Alkylation; Ester Hydrolysis; Decarboxylation | 22.5,7 |
| July 21 | The Aldol Reaction (Aldehyde/Ketone as Electrophile) | 23.1-6 |
| July 22 | Claisen Reaction (Ester as Electrophile); | 23.7-9 |
| July 23 | The Wittig Reaction; Catchup. | 19.11 |
| July 24 | Catchup, Integrated Practice Problems. Skip: 22.4, 23.10-13 | Catchup |
| July 27 | Amines, Nomenclature, Properties, Basicity | 24.1-4 |
| July 28 | Amines, Basicity | 24.3-4 |
| July 29 | Test #3 Covering Chapters 19, 22, and 23. | Test 3 |
| July 30 | Reactions of Amines | 24.7-8 |
| July 31 | Synthesis of Amines Skip: 24.5, 9-10 | 24.6 |
| Aug 3 | Carboxylic Acid Nomenclature and Acidity | 20.1,2,4 |
| Aug 4 | Reactions and Synthesis of Acids | 20.5, 21.1-7 |
| Aug 5 | Interconversions Among Acids and Derivatives | 21.1-7 |
| Aug 6 | Practice Problems | - |
| Aug 7 | Test #4 Chapters 24, 20, 21 Skip: 20:3, 9-10, ch 21: 8-10 | Test 4 |