

Class Times: **Lecture** Mon-Th 7 – 8:50 AM

**Labs** Tu, Wed,Th 9 AM - 10:50 AM

11 AM - 12:50 PM

| Date                                           | Lecture                                                                                                                                                                                        | Text Reference                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Week 1</b><br>7-1-09<br>1 <sup>st</sup> day | Reactions of hydroxyl groups<br>Ethers/ names & reactions<br>Labs –Solubilities,                                                                                                               | Chapter 9<br>Handouts                       |
| <b>Week 2</b>                                  | Reactions of alkenes<br>Labs-Halogenation of an alkene;<br>aqueous<br>Halogenation of an alkene ;<br>hydrocarbon                                                                               | Chapter 12<br>Handout                       |
| <b>Week 3</b>                                  | Reactions of alkynes<br>Labs-IR, NMR spectroscopy;<br><u>Test – Alcohols, ethers,</u><br><u>alkenes, alkynes</u><br><u>(around 7-21-09)</u>                                                    | Chapter 13<br>Handout<br>Chaps 9,12,13,labs |
| <b>Week 4</b>                                  | Reactions of aldehydes &<br>ketones;<br>Labs- permanganate oxidation<br>of ethanol<br>Distillation                                                                                             | Chapter 17<br>Handout                       |
| <b>Week 5</b>                                  | Reactions of aromatics<br>Labs- Organic acid/base<br>titration & esters<br>To be or not to be a strong acid<br><u>Test – Aldehydes, ketones,</u><br><u>aromatics</u><br><u>(around 8-3-09)</u> | Chapter 15<br>handout<br>Chapter 15,17,labs |
| <b>Week 6</b>                                  | Carbohydrates                                                                                                                                                                                  | Chapter 24                                  |
| <b>Week 7</b><br>Fri 8-21<br>Last day          | Amino Acids,<br>Peptides, Nucleic Acids<br><u>Test – Carbohydrates, amino</u><br><u>acids, proteins, nucleic</u><br><u>acids(around 8-19-09)</u>                                               | Chap 26,labs                                |