

## CHAPTER OVERVIEW

### 1: Chapters

- 1.1: Carbonyl Group - Notation, Structure, and Bonding
- 1.2: Functional Groups, Hybridization, Naming
- 1.3: Additions- Electrophilic and Nucleophilic
- 1.4: Acetal Formation, Mechanism, Resonance
- 1.5: Nitrogen Nucleophiles - Imine Formation
- 1.6: Addition of Organometallics - Grignard
- 1.7: Oxidation and Reduction, alpha-C-H acidity
- 1.8: Enolates, Aldol Condensation, Synthesis
- 1.9: Carboxylic Acid Derivatives- Interconversion
- 1.10: Carboxylic Acid Derivatives - Alpha Carbon Reactions
- 1.11: Fats, Fatty Acids, Detergents
- 1.12: Carboxylic Acids
- 1.13: Alcohols
- 1.14: Ethers, Epoxides, Thiols
- 1.15: Chirality, Three Dimensional Structure
- 1.16: R/S Naming, Two or More Stereogenic Centers
- 1.17: Carbohydrates- Monosaccharides
- 1.18: Glycosides, Disaccharides, Polysaccharides
- 1.19: Amines- Structure and Synthesis
- 1.20: Amines- Reactions
- 1.21: Amino Acids and Peptides
- 1.22: Proteins
- 1.23: Nucleic Acids
- 1.24: Nucleophilic Substitution, SN2, SN1
- 1.25: Elimination - E2 and E1
- 1.26: Alkenes and Alkyne Structure
- 1.27: Electrophilic Additions
- 1.28: Polymers
- 1.29: Metabolic Organic Reactions
- 1.30: Aromatic Compounds
- 1.31: Electrophilic Substitution
- 1.32: Side Chain Oxidations, Phenols, Arylamines
- 1.33: Radical Reactions

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