General Instructional Objectives Chapter 15. Aldehydes and Ketones

- 15.1 The Carbonyl Group
- 15.2 Compounds Containing a Carbonyl Group
- 15.3 The Aldehyde and Ketone Funcitonal Groups
- **15.4 Nomenclature for Aldehydes**
- **15.5 Nomenclature for Ketones**
- 15.6 Isomerism for Aldehydes and Ketones
- 15.7 Selected Common Aldehydes and Ketones
- 15.8 Physical Properties of Aldehydes and Ketones
- **15.9 Preparation of Aldehydes and Ketones**
- 15.10 Oxidation and Reduction of Aldehydes and Ketones
- 15.11 Reaction of Aldehydes and Ketones with Alcohols
- **15.12 Formaldehyde-Based Polymers**
- 15.13 Sulfur-Containing Carbonyl GroupsStudents should be able to:
 - 1. Be familiar with the physical and chemical properties of aldehydes and ketones.
 - 2. Write the structures of simple examples of each of the classes of aldehydes and ketones.
 - 3. Name the common aldehydes and ketones.
 - 4. Know the method of synthesizing aldehydes and ketones.
 - 5. Aldehydes and ketones and their reactions.
 - 6. Understand the functionality of aldehydes and ketones in molecules.