Lecture 1 Review: Carboxylic acids and the acidity of the OH bond

What we covered last time:

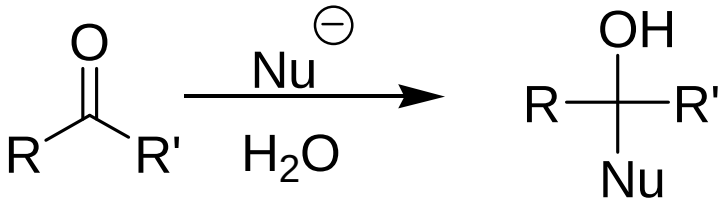
- Introduction to carboxylic acids
  - Nomenclature and physical properties
- Synthesis and Reactions of carboxylic acids
  - Methods for preparation and reactivity
- Bronstead-Lowry Acids
  - Acid-base equilibrium
- Introduction to amino acids
  - Structure and properties

Chemistry at the Carbonyl Carbon: Overview

- Carbonyl chemistry
  - Classes of carbonyl compounds
  - General types of carbonyl reactions
- Oxidation/ reduction chemistry
- Organometallic reagents

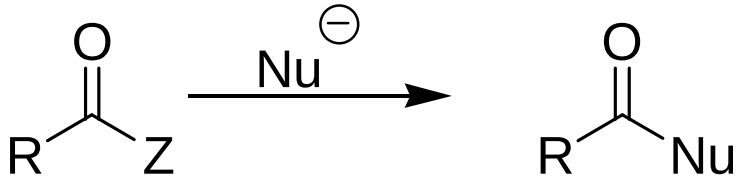
Chapter 20
(lectures 2 + 3)

- Nucleophilic addition reactions



Chapter 21
(lectures 4 + 5)

- Nucleophilic substitution reactions



Chapter 22
(lectures 6 + 7)

Lecture 2 Overview: Introduction to Carbonyl Chemistry part 1

- Chemistry at the Carbonyl Carbon: Introduction
- Oxidation/ Reduction of carbonyl compounds
  - Generation of alcohol, aldehydes, ketones, carboxylic acids
  - Stereochemistry and enentioselective reductions
  - Biological reductions
  - Selective oxidizing agents
- Organometallic reagents