

CHEM 2110 Fundamentals of Spectroscopic Analysis

Course Description:

This course teaches basic spectroscopic techniques used commonly for structure elucidation of organic compounds. It includes ultraviolet-visible spectrometry, infrared spectroscopy, mass spectrometry, ^1H and ^{13}C nuclear magnetic resonance (NMR) spectroscopy, as well as brief introduction of multinuclear NMR.

Main Course Outline (for reference only):

1. Molecular Formulas and What Can Be Learned from Them
2. Infrared Spectroscopy
3. Ultraviolet Spectroscopy
4. Nuclear Magnetic Resonance Spectroscopy
5. Mass Spectrometry
6. Combined Structure Problems