B. S. Sophomore Year – Spring Semester

CEM 352 Organic Chemistry II

Description: Carboxylate derivatives. Conjugation, Aromaticity. Amino acids. Proteins. Carbohydrates. Nucleic acids.

Credit: 3 credits (3 hours of lecture, 1 hour of recitation per week)

Prerequisite: CEM 351; not open to students with credit in CEM 252.

Lecture Topics:

- 1. Spectroscopy (MS, IR, UV-Visible, ¹H NMR, ¹³C NMR)
- 2. Aldehydes and Ketones
- 3. Alcohols and Ethers
- 4. Enols and Enolates
- 5. Carboxylic Acids
- 6. Acyl Derivatives
- 7. Amines
- 8. Orbital Symmetry
- 9. Carbohydrates
- 10. Amino Acids and Peptides