**Organic Chemistry**

**Course Prerequisites**

**Successful completion of Algebra, Chemistry or currently enrolled in Chemistry with Instructor approval**

1. **Introduction:**

**Organic Chemistry is designed for the highly motivated student with strong interest in Chemistry. Students will investigate the world of organic chemistry while learning various reactions and a wide range of laboratory techniques. Students will become familiar with the nomenclature and behavior of organic functional groups through reactions and analysis. This course give a foundation for successful completion of college chemistry.**

1. **General Objectives and Sequential Time frame:**

**1. Students study a variety of topics that include:**

* + 1. **Bonding and Isomerism (2 weeks) 1**
    2. **Alkanes, cycloalkanes; Conformational and Geometrical Isomerism, Alkenes, Alkynes (3 weeks) 2,3**
    3. **Aromatic Compounds Organic halogens and heterocyclic compounds (3 weeks) 4, 6, 13**
    4. **Stereochemistry (2 weeks) 5**
    5. **Functional groups, including reactions ( 3 weeks) 7,8, 9 ,10, 11**
    6. **Polymers (3 weeks) 14**
    7. **Lipids, Carbohydrates, amino acids, Nucleotides (2weeks) 15-18 end semester**

**Textbook used**:

Organic Chemistry: A short Course Lab Manual  12th edition.  Houghton Mifflin,  2007

**Grading Scale:**

25% homework,  25% labs,  25% Test,   25% quiz

**Supplies needed:**

pen/paper, notebook, spiral notebook for lab reports, Scientific calculator, flash drive