



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

CHEM 160 Fundamentals of Health Science Chemistry

Course Information

Division	Science/Mathematics
Contact Hours	90
Lecture Hours	45
Lab Hours	45
Total Credits	4

Prerequisites **CHEM 150 or CHEM 151**

Course Description

A study of organic and biochemistry as it applies to the health sciences. The course is designed for majors in occupational programs relating to the health sciences that require a basic understanding of organic and biochemistry. Course requires laboratory work.

CHEM 160 Course Outcomes

In order to evidence success in this course, students will be able to:

1. Identify and draw organic substances and reactions in terms of functional groups and families.
2. Utilize molecular, structural, and condensed formulas to represent organic molecules.
3. Identify and draw organic substances and reactions in terms of nomenclature.
4. Identify organic substances and reactions in terms of physical and chemical properties.
5. Explain organic substances and reactions in terms of structure and bonding.
6. Identify, categorize, and draw the biomolecules of life.
7. Identify the chemical and physical properties of the biomolecules.
8. Define the concept of optical activity and the role of optical isomerism in physiological activity.
9. Define and explain the anabolism and catabolism of biomolecules.
10. Utilize analytical laboratory techniques to differentiate physical and chemical properties of organic functional groups and families.
11. Perform organic preparations and operations in the laboratory including simple analysis of products.
12. Demonstrate proper handling and assembling of laboratory equipment.
13. Utilize analytical laboratory techniques to evaluate the physical and chemical properties of biomolecules.

Date Updated: September 15, 2018
By: L. Bean