



CHEM 108

INTRODUCTION TO ORGANIC CHEMISTRY

BACHELOR IN BIOCHEMISTRY AND BACHELOR IN FOOD
SCIENCES

PRE-REQUISITES COURSE

CHEM 101

CREDIT HOURS 4 (3+1)

COURSE OBJECTIVES

Upon successful completion of this course, the student should be able to:

- Name organic compounds using IUPAC naming system, their occurrence in nature, physical properties.
- Identify, classify and understand physical and chemical properties of the major functional groups.
- Understanding the basic organic reaction for preparation of common functional groups.
- Understanding the reaction of functional groups and families of organic compounds.
- The practical uses of organic compounds as food additives, pesticides, plastics, and other products.



Topic Course Descriptions

- Bonding and Isomerism
- Alkanes and Cycloalkanes
- Alkenes and Alkynes
- Aromatic Compounds
- Stereoisomerism
- Organic Halides
- Alcohols, Phenols and Thiols
- Ethers and Epoxides
- Aldehydes and Ketones
- Carboxylic acids and derivatives
- Fats and oils

References

Organic Chemistry, A short Course By hart

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