



Wayne County Community College District

COURSE SYLLABUS

CHM 250 Organic Chemistry I

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

First lecture course of a one-year sequence in organic chemistry designed for chemistry majors and for students planning to attend professional schools. Topics include introduction to the nomenclature of organic compounds, stereochemistry, reaction intermediates, spectroscopy, kinetics, and thermodynamics (meets four hours per week).

PREREQUISITES: CHM 145

COREQUISTE: CHM 252

EXPECTED COMPETENCIES:

Upon successful completion of this course, the student will demonstrate competency in:

1. Structure Determines Properties
2. Alkanes and Cycloalkanes: Introduction to Hydrocarbons
3. Alkanes and Cycloalkanes: Conformations and cis-trans Stereoisomers
4. Alcohols and Alkyl Halides
5. Structure and Preparation of Alkenes: Elimination Reactions
6. Reactions of Alkenes
7. Stereochemistry
8. Nucleophilic Substitution
9. Alkynes
10. Conjugation in Alkadienes and Allylic Systems
11. Arenes and Aromaticity
12. Reactions Of Arenes: Electrophilic Aromatic Substitution

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E