

COURSES

CHEMISTRY

CHM-130 General, Organic, & Biochemistry

Lec 3 Lab 0 Clinic 0 Credit 3

This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts.

Co-Requisites: None

Pre-Requisites: None

CHM-130A General, Organic, & Biochemistry Lab

Lec 0 Lab 2 Clinic 0 Credit 1

This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130.

Co-Requisites: CHM-130

Pre-Requisites: None

CHM-151 General Chemistry I

Lec 3 Lab 3 Clinic 0 Credit 4

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152.

Co-Requisites: one: MAT-143, MAT-152, MAT-171, MAT-271

Pre-Requisites: None

CHM-152 General Chemistry II

Lec 3 Lab 3 Clinic 0 Credit 4

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields.

Co-Requisites: None

Pre-Requisites: CHM-151