

CHM - CHEMISTRY

CHM 100 Introductory Chemistry (Non-Degree Credit) (3-3-4)

Offered Fall, Spring, and Summer Semesters

This is an introductory course in general chemistry and principles of chemistry. Emphasis is placed on mathematical solutions and laboratory techniques.

CHM 105 General Organic & Biochemistry (3-3-4)

Offered Fall, Spring, and Summer Semesters

Prerequisite: CHM 100 or CHM 110

This course is a study of the fundamental principles of chemistry, including atomic and molecular structure, common substances and reactions, introduction to organic chemistry and biochemistry.

CHM 110 College Chemistry I* (3-3-4)

Offered Fall, Spring, and Summer Semesters

Prerequisites: MAT 109 or MAT 110 and CHM 100 (or completion of high school chemistry with a grade of "C" or higher)

This is the first course in a sequence that includes the following topics: atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, equilibria and nuclear chemistry.

CHM 111 College Chemistry II* (3-3-4)

Offered Fall, Spring, and Summer Semesters

Prerequisite: CHM 110 and MAT 109 or MAT 110

This course is a continuation of the study of atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions and equilibria. Other topics included are kinetics, thermodynamics, electrochemistry, inorganic chemistry and an introduction to organic chemistry.

CHM 211 Organic Chemistry I* (3-3-4)

Offered on a rotational basis

Prerequisite: CHM 111

This is the first in a sequence of courses that includes nomenclature, structure and properties and reaction mechanisms of basic organic chemistry.

CHM 212 Organic Chemistry II* (3-3-4)

Offered on a rotational basis

Prerequisite: CHM 211

This course is a continuation of basic organic chemistry. Topics include nomenclature, structure and properties, reaction mechanisms of basic organic chemistry, biochemistry and spectroscopy.

CHM 213 Principles of Biochemistry (3-0-3)

Offered on a rotational basis

Prerequisite: CHM 211 or CHM 105

This course is the study of the major biochemical processes, including those related to proteins, enzymes, nucleic acids, DNA replication and transcription, carbohydrates, lipids and their associated pathways and significance.

CHM 299 Research in Chemistry (0-9-3)

Offered on a rotational basis

Prerequisite: Instructor Permission

This course provides an opportunity for students to investigate a faculty-approved topic related to Chemistry using the application of practical research methods. This course is designed for students in an Associate in Arts or Associate in Sciences program to explore part of their major in more depth by working one-on-one or in small groups on faculty- or student-designed research projects.