

CHEMISTRY (CHEM)

CHEM-1405. Introductory Chemistry I. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry and environmental/consumer chemistry. Designed for non-science and allied health students. A laboratory component is included that gives practical experience to material covered in class. Lab fee.

CHEM-1406. Introductory Chemistry I for Allied Health. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. This course is a survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry and environmental/consumer chemistry. Designed for non-science and allied health students. A laboratory component is included that gives practical experience to material covered in class. Lab fee.

CHEM-1407. Introductory Chemistry II. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. Students will earn an A, B, C, D, F, or W. A continuation of Chemistry 1405. Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. A laboratory component is included that gives practical experience to material covered in class. Lab fee.

CHEM-1411. General Chemistry I. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. (Prerequisite Math 1314 or equivalent academic preparation) Students will earn an A, B, C, D, F, or W. Fundamental principles of chemistry for majors in the sciences, health sciences and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases and an introduction to thermodynamics and descriptive chemistry. A laboratory component is included that gives practical experience to material covered in class. Lab fee.

CHEM-1412. General Chemistry II. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. (Prerequisite CHEM 1411) Students will earn an A, B, C, D, F, or W. A continuation of CHEM 1411 with topics covering chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. A laboratory component is included that gives practical experience to material covered in class. Lab fee.

CHEM-2423. Organic Chemistry I. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. (Prerequisite CHEM 1412) Students will earn an A, B, C, D, F, or W. Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups and synthesis of simple molecules. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS. A laboratory component is included that gives practical experience to material covered in class. Lab fee.

CHEM-2425. Organic Chemistry II. (4 Credits)

(4-3-3) CORE AREA 030 This course is taken for academic credit. (Prerequisite CHEM 2423) Students will earn an A, B, C, D, F, or W. A continuation of CHEM 2423. Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups and synthesis of simple molecules. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS. A laboratory component is included that gives practical experience to material covered in class. Lab fee.