

CHEMISTRY (CHE)

CHE-1110: Consumer Chemistry (With Lab) (4 hours)

Consumer applications of fundamental chemistry principles. Designed for the liberal arts non-science majors. Cannot be used for credit in any science major. Fee: Required.

CHE-2000: Chemistry in the World Today (3 hours)

Applications of chemical concepts to technological and societal issues. Replaces CHE-3000. Field Trip: Required. Prerequisite: Minimum of one year of high school chemistry.

CHE-2100: Health Science Applications in Chemistry (3 hours)

Applications of chemical concepts to technological and societal issues with special emphasis on health science related issues. Replaces: CHE 3005.

CHE-2200: Fundamentals of Chemistry (With Lab) (4 hours)

A survey of concepts and principles of general inorganic chemistry. Introduction to organic chemistry. Fee: Required. Prerequisite: C or higher in MAT-0110 or higher, and one year of high school chemistry.

CHE-2211: General Chemistry I (With Lab) (4 hours)

The chemical principles of matter, atomic theory, reactions, bonding, thermochemistry and gases. Fee: Required. Prerequisites: C or higher in MAT-0110 or higher, and one year of high school chemistry.

CHE-2212: General Chemistry II (With Lab) (4 hours)

The chemical principles of phases of matter, solutions, kinetics, equilibrium, acids and bases, solubility, complex ions and coordination compounds, thermochemistry and electrochemistry. Fee: Required. Prerequisite: C or higher in CHE-2211.

CHE-2300: Introduction to Organic and Biological Chemistry (With Lab) (4 hours)

Introduction to nomenclature and reactions for simple compounds of carbon. A study of the composition, structure and function of molecules within organisms. Students may not receive credit for graduation for both CHE-2300 and CHE-3311. Fee: Required. Prerequisite: C or higher in CHE-2200 or higher.

CHE-3311: Organic Chemistry I (With Lab) (4 hours)

Structure and reactions of saturated and unsaturated hydrocarbons, alkyl halides, alcohol, phenols and ethers. Introduction to stereochemistry and spectroscopy. Fee: Required. Prerequisite: C or higher in CHE-2212.

CHE-3312: Organic Chemistry II (With Lab) (4 hours)

Structure and reactions of carbonyl compounds, carboxylic acids and their derivatives, amines, aromatic hydrocarbons and polymers. Fee: Required. Prerequisite: C or higher in CHE-3311.

CHE-3712: Biochemistry (With Lab) (4 hours)

The study of the structure, function and transformations of molecules within biological organisms. Students may not receive credit for graduation for both CHE-2300 and CHE-3712. Fee: Required. Prerequisite: C or higher in CHE-3312 or equivalent.

CHE-4720: ACCA - Chemistry (2 hours)

A limited number of chemistry courses are offered by the Associated Colleges of the Chicago Area. Consult the Natural Science Department for details on specific courses.

CHE-4901: Seminar in Chemistry (3 hours)

Readings, discussion, and oral and written presentations of current topics in selected areas of physical science. Cross-Listed: BIO-4900 and EAS-4901. Prerequisite: Senior college standing and 16 semester hours in physical science.

CHE-4910: Special Topics: Chemistry (4 hours)

An in-depth study of a topic relevant to a current topic in the discipline or a topic of interest that is not addressed in other departmental courses. The course may be repeated for credit so long as the topic is different.

CHE-4950: Independent Study in Chemistry (1-6 hours)

Limitations: Department consent; Junior or Senior class standing; one independent study per semester and cumulative GPA of at least 2.00; a 2.75 GPA in the pursued discipline.

CHE-4990: Internship in Chemistry (4 hours)

Supervised involvement in chemistry-related work experience. Prerequisite: A minimum overall GPA of 2.75 in 18 or more hours of chemistry; department consent.