

Chemistry Electives 2023-24

The courses listed below will fulfill the CHEM elective requirement for CHBE Standard Option students (6 credit hours for Catalog Years 2022-2023 and before; 3 credit hours for Catalog Year 2023-2024):

CHEM 3111 Inorganic Chemistry (FALL only)

A study of the reactions and structures of inorganic compounds and principles, generalizations and theories that assist in understanding their behavior. Prereq: CHEM 1212K + CHEM 2312.

CHEM 3412 Physical Chemistry II (FALL and SPRING)

Quantum mechanics, atomic and molecular structure, bonding theory, molecular spectroscopy, statistical mechanics. Prereq: CHEM 1212K and PHYS 2212.

CHEM 3511 Survey of Biochemistry (ALL semesters, incl. SUMMER)

Introductory course in biochemistry dealing with the chemistry and biochemistry of proteins, lipids, carbohydrates, nucleic acids, and other biomolecules. Prereq: CHEM 2312 or CHEM 1315.

CHEM 3521 Biochemistry I (FALL and SPRING)

CHEM 3522 Biochemistry II (FALL and SPRING)

The chemistry and biochemistry of proteins, lipids, carbohydrates, nucleic acids, and other biomolecules. Prereq: CHEM 2311 (for 3521) and CHEM 3521 (for 3522).

CHEM 4311 Adv. Organic Chemistry (FALL only)

Construction reactions and functional group interconversions as applied to multistep organic synthesis. Prereq: CHEM 2312/2313.

CHEM 4341 Applied Spectroscopy (FALL only)

Theory and application of NMR, mass spectrometry, and infrared spectroscopy in the determination of organic structures. Prereq: CHEM 2312/2313.

No credit awarded for both CHEM 3511 and CHEM 3521.