

Chemistry Electives 2025-26

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

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. *Prereqs: CHEM 1212K and CHEM 2312.*

CHEM 3412 Physical Chemistry II (FALL and SPRING)

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

CHEM 3511 Survey of Biochemistry (SUMMER, FALL and SPRING)

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)

The chemistry and biochemistry of proteins, lipids, carbohydrates, nucleic acids, and other biomolecules. *Prereq: CHEM 2311.*

CHEM 3522 Biochemistry II (FALL and SPRING)

The chemistry and biochemistry of proteins, lipids, carbohydrates, nucleic acids, and other biomolecules. *Prereq: CHEM 3521.*

CHEM 4311 Adv. Organic Chemistry (FALL only)

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

No credit awarded for both CHEM 3511 and CHEM 3521.