

BIOLOGY/CHEMISTRY (BCHM)

BCHM 312: Biochemistry: Proteins

Proteins reviews fundamental protein synthesis, structure/function relationship, consequences of mutations, equilibrium binding, use of antibodies as investigative tools, catalytic mechanisms, kinetics, and regulation of enzymes. Direct application of course content to health and biotechnology are emphasized. Corequisite: BCHM 312 Prerequisite: grade of "C-" or better in BIOL 104 and BIOL 104L, and grade of "C-" or better in CHEM 202 and CHEM 202L

Credits: 3

College: Jefferson College of Life Sciences

Prerequisites: (BIOL 104 and BIOL 104L) and (CHEM 202 and CHEM 202L) [Min Grade: C-]

Corequisites: BCHM 312L

Schedule Type: Hybrid, Lecture

BCHM 312L: Biochemistry: Proteins Lab

This lab introduces some common, basic techniques used routinely the study of proteins. The techniques learned include spectrophotometric, chromatographic, electrophoretic, and enzymatic analysis. Students prepare lab reports and seminar presentations typical of real-world dissemination methods. Corequisite: BCHM 312 Prerequisite: grade of "C-" or better in BIOL 104 and BIOL 104L, and grade of "C-" or better in CHEM 202 and CHEM 202L.

Credits: 1

College: Jefferson College of Life Sciences

Prerequisites: (BIOL 104 and BIOL 104L) and (CHEM 202 and CHEM 202L) [Min Grade: C-]

Corequisites: BCHM 312

Schedule Type: Lab

BCHM 313: Biochemistry:Metabolism

Biochemistry II: Metabolism reviews the structures and metabolic transformations of carbohydrates, lipids, amino acids, and nucleotides. The regulation of metabolism by principles of protein function reviewed in BCHM 312 is thematic throughout the course. Direct application of course content to health and biotechnology are emphasized. Corequisite: BCHM 313L Prerequisite: grade of "C-" or better in BIOL 104 and BIOL 104L, and grade of "C-" or better in CHEM 202 and CHEM 202L.

Credits: 3

College: Jefferson College of Life Sciences

Prerequisites: (BIOL 104 and BIOL 104L) and (CHEM 202 and CHEM 202L) [Min Grade: C-]

Corequisites: BCHM 313L

Schedule Type: By Appointment - 1 student, By Appointment - 2 students, Lecture

BCHM 313L: Biochemistry: Metabolism Lab

This lab includes analysis of metabolites and the regulation of metabolism by proteins. The techniques learned include spectrophotometric, chromatographic, electrophoretic, and enzymatic analysis. Students prepare lab reports and seminar presentations typical of real-world dissemination methods. Corequisite: BCHM 313 Prerequisite: grade of "C-" or better in BIOL 104 and BIOL 104L, and grade of "C-" or better in CHEM 202 and CHEM 202L.

Credits: 1

College: Jefferson College of Life Sciences

Prerequisites: (BIOL 104 and BIOL 104L) and (CHEM 202 and CHEM 202L) [Min Grade: C-]

Corequisites: BCHM 313

Schedule Type: By Appointment - 1 student, By Appointment - 2 students, Lab