

BIOCHEMISTRY (BCM)

BCM 600 Selected Topics (1-6 Credits)

Arts & Sciences

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable 6 times for 6 credits maximum

BCM 630 Journal Club in Molecular Pharmacology & Structural Biology (1 Credit)

Arts & Sciences

Double-numbered with BCM 430

Critical evaluation of recent journal articles that focus on molecular pharmacology and/or structural biology. Students make at least one presentation per semester and participate in weekly discussion. Additional work required of graduate students.

Repeatable 2 times for 2 credits maximum

BCM 677 Proteins and Nucleic Acids Lab (3 Credits)

Arts & Sciences

Cross-listed with CHE 677

Double-numbered with CHE 477, BCM 477

Experimental methods for biologically synthesizing and chemically purifying macromolecules in order to analyze their structure and function, including: polymerase chain reaction; site-directed mutagenesis; Protein expression and purification; nucleic acid and protein electrophoresis. Additional work required of graduate students.

BCM 678 Perspectives in Biochemistry (3 Credits)

Arts & Sciences

Cross-listed with CHE 678

Survey of Biochemistry with emphasis on the unifying concepts of Chemistry and Biology, requiring a graduate-level background in science.

BCM 684 Biomolecular Modeling (3 Credits)

Arts & Sciences

Double-numbered with BCM 484

Experience in biomolecular modeling of proteins, nucleic acids, and drug candidates as practiced in biochemical research and technology. Connections with structural and physical principles will be emphasized. Additional work required of graduate students.