

Biophysical Chemistry

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Description

Biophysical chemistry is the interface between biochemistry and physical chemistry. This stream is available for students in the Chemistry and Biochemistry programs. This stream will provide the necessary background for students intending to do modern research in the life sciences. It will also provide much needed training for students intending to work in the biotech industry. This program also provides the most comprehensive coverage of subjects (biology, chemistry and physics) that students will need for taking the MCAT exam.

Chemistry courses: 18 credit hours from:

CHEM 2370	Biochemistry 2 (<i>required</i>)
CHEM 3360	Elementary Quantum Chemistry and Molecular Bonding
CHEM 3370	Symmetry, Spectroscopy and Structure
CHEM 3490	Introduction to Polymers
CHEM 3570	Biophysical Chemistry (<i>required</i>)
CHEM 4590	Bioanalytical Methods
CHEM 4620	Biochemistry of Nucleic Acids
CHEM 4630	Biochemistry of Proteins (<i>required</i>)
CHEM 4640	Spectroscopy, Relaxation and Structure
CHEM 4700	Advanced Biochemistry Laboratory (<i>highly recommended!</i>)

Non-Chemistry courses: 9 credit hours from:

BIOL 2500	Genetics (prereqs pre-approved for chemistry students)
BIOL 2520	Cell Biology (prereqs pre-approved for chemistry students)
MBIO 2410	Essentials of Molecular Biology
MBIO 3460	Membrane and Cellular Biochemistry
MBIO 4540	Biological Energy Transduction