Biochemistry & Molecular Biology

Directors: Stevens-Truss (contact person), Furge, Langeland, Moore,

A major focus of modern scientific inquiry is uncovering the physical and chemical mechanisms underlying biological systems. Therefore, an interdisciplinary concentration in Biochemistry and Molecular Biology is offered for students interested in advanced study at the interface between biology and chemistry. Courses include a selection from the physical and biological sciences, all offered with labs that make use of sophisticated, cutting-edge instrumentation and techniques. Students interested in graduate studies of molecular-level biological phenomena are especially encouraged to consider this plan of study.

The Concentration in Biochemistry and Molecular Biology

Required Courses

In Biology:
- BIOL 246: Cell and Molecular Biology with Lab
- BIOL 352: Biochemistry with Lab (note: same as CHEM 352, need only do one)

In Chemistry:
- CHEM 220: Organic Chemistry II with Lab
- CHEM 310: Chemical Thermodynamics and Kinetics with Lab
- CHEM 352: Biochemistry with Lab (note: same as BIOL 352, need only do one)

One additional course in Biology or Chemistry – choose either:
- BIOL 420: Advance Molecular Genetics with lab, or
- CHEM 460: Advanced Biochemistry with Lab

In Mathematics:
- MATH 112: Calculus I
- MATH 113: Calculus II

In Physics:
- PHYS 150: Introductory Physics I with Lab
- PHYS 152: Introductory Physics II with Lab

Prerequisite Coursework

- BIOL 112: Evolution and Genetics with Lab
- CHEM 110: Chemical Composition and Structure with Lab
- CHEM 120: Chemical Reactivity with Lab
- CHEM 210: Organic Chemistry I with Lab

In accordance with College policy, concentrators in biochemistry and molecular biology must pass the required courses with a C- or better.

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