

KALAMAZOO COLLEGE  
2017-2018 ACADEMIC CATALOG

## Biochemistry & Molecular Biology

Professors: Furge, Langeland, Moore, Stevens-Truss

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; most are laboratory based and make use of sophisticated, cutting-edge instrumentation and techniques. Students interested in graduate studies of molecular-level phenomena are especially encouraged to consider this plan of study.

### The Concentration in Biochemistry and Molecular Biology

#### Prerequisite Coursework

BIOL 112 Evolution and Genetics with Lab

CHEM 110 Chemical Composition and Structure with Lab

CHEM 120 Chemical Reactivity with Lab or CHEM 125 Chemical Composition, Structure, and Reactivity with Lab

CHEM 210 Organic Chemistry I with Lab

MATH 112 Calculus I

MATH 113 Calculus II

PHYS 150 Introductory Physics I with Lab

PHYS 152 Introductory Physics II with Lab

#### Required Courses

BIOL 246 Cell and Molecular Biology with Lab

BIOL/CHEM 352 Biochemistry with Lab

CHEM 220 Organic Chemistry II with Lab

CHEM 310 Physical Chemistry I with Lab

One unit from:

BIOL 420 Advance Molecular Genetics with lab

CHEM 460 Advanced Biochemistry 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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