

# BIOCHEMISTRY AND BIOPHYSICS M.S.

## Master of Science - Biochemistry and Biophysics Summary

Code	Title	Hours
Core Courses		10
Lab Rotation		1
Electives		10-13
Research		6-9
<b>Total Hours</b>		<b>27-33</b>

Degree Specific Credits: 30

Required Cumulative GPA: 3.0

### Notes

- The Biochemistry and Biophysics master's program provides a dynamic environment where students engage in cutting-edge research in close collaboration with faculty. Students will learn to apply the tools of physical biochemistry and structural biology to exciting problems through research projects with Biochemistry Program Faculty Members.
- The Center for Biomolecular Structure and Dynamics and related research in the provide a rich context for graduate studies in Biochemistry & Biophysics at the University of Montana.

## Courses

Code	Title	Hours
<b>Core Courses</b>		
BCH 581	Physical Biochemistry	3
BCH 582	Proteins and Enzymes	3
BCH 584	Nucleic Acids	3
BMED 605	Biomedical Research Ethics	1
<b>Lab Rotations</b>		
BCH 570	Intro to Research	1
<b>Approved Electives</b>		
Complete 10-13 hours of the following:		10-13
BCH 486	Biochemistry Research Lab	
BCH/CHMY 595	Special Topics (Biophotonics)	
BCH/CHMY 595	Special Topics (NMR Spectroscopy)	
BCH 600	Cell Organization & Mechanisms	
CSCI 558	Intro to Bioinformatics	
CHMY 562	Organic Structure and Mechanisms	
BMED 621	Drug Design	
BMED 615	Molecular Pharmacology	
NEUR 661	Neuroscience I	
NEUR 667	Topics in Neurobiology	

Other courses that may be useful but do not count for the elective requirement are:

BCH 561	RNA Structure & Function	
CHMY 580	Advanced Graduate Research Seminars	
BIOB 596	Independent Study	
<b>Seminar/Data Club</b>		
BCH 694	Biochemistry & Biophysics Seminar	1
BCH 547	Experimental Molecular, Cellular, and Chemical Biology	1
<b>Research</b>		
BCH 597	Research	6-9
<b>Total Hours</b>		<b>29-35</b>

### Elective Requirements

Course work for Biochemistry & Biophysics graduate students is determined by the Advisory Committee. The minimum coursework requirement is the three Core courses and one 3 credit hour elective. A list of approved electives is provided above. Other electives may be substituted, if appropriate, with the approval of the student's Advisory Committee. All course work will normally be completed during the first two years of graduate study.

Minimum Required Grade: C