

Biochemistry Minor

University of Michigan - Department of Chemistry

Effective: Fall 2019

The Biochemistry minor provides a broad and general exposure to the traditional areas of the biochemical sciences.

Exclusions: The Biochemistry minor is NOT open to student's majoring in:

Biochemistry	Interdisciplinary Chemical Sciences	Microbiology
Biomolecular Science	Biology	Neuroscience
Chemistry	General Biology	EEB
MCDB or CMB	Biology, Health and Society (BHS)	Plant Biology

Prerequisites:

- AP credit for Physics (125 or 139) will fulfill the Physics requirement.
- AP credit for Math (120) will fulfill the Math requirement.
- AP credit for Biology (174, 192, or 195) will fulfill the Biology requirement.

Course #	Course Description	Completed	Term Typically Offered	Credits
PHYS 135 OR PHYS 140	Physics for the Life Sciences I General Physics I		F, W, Sp	4
MATH 115	Calculus I		F, W, Sp, Su	4
BIO 172	Introductory Biology: Molecular Cellular and Developmental		F, W, Sp	4

Minor Program requirements (at least 18 credit hours):

Core courses:

Course #	Course Description	Completed	Term Typically Offered	Credits
*CHEM 210	Structure and Reactivity I		F, W, Sp	3
CHEM 211	Investigations in Chemistry: Laboratory		F, W, Sp	2
CHEM 215	Structure and Reactivity II		F, W, Sp	3
CHEM 260 OR CHEM 370	Chemical Principles Physical and Chemical Principles Behind Biology and Medicine		F, W, Sp F	3 3
CHEM 351 OR **BIOLCHEM 415 OR **MCDB 310	Fundamentals of Biochemistry Introductory Biochemistry Introductory Biochemistry		F, W F, W F, W, Sp, Su	4 4 4

Elective Courses: Electives should be selected in consultation with an advisor.

Course #	Course Description	Completed	Term Typically Offered	Credits
CHEM 241	Introduction to Chemical Analysis		<i>F, W</i>	2
CHEM 242	Introduction to Chemical Analysis Laboratory		<i>F, W</i>	2
OR				
CHEM 245	Biomedical Analytical Chemistry		<i>F, W</i>	2
CHEM 246/247	Biomedical Analytical Chemistry Laboratory I and II		<i>F, W</i>	2
CHEM 451	Advanced Biochemistry I Macromolecular Structure and Function		<i>F, W</i>	4
CHEM 452	Advanced Biochemistry II Cellular Processes		<i>W</i>	4
BIO 305	Genetics		<i>F, W, Sp, Su</i>	4

All students may only share only one required course between a major and the biochemistry minor. (College of Engineering students, please see a Chemistry Department Advisor.)

NOTES:

* Students who do not place into CHEM 210 are strongly recommended to take CHEM 130. CHEM 130 or AP credits earned for CHEM 130 DO NOT count toward the minor.

** If MCDB 310 or BIOLCHEM 415 is selected then you must take CHEM 451 or 452 as your elective to complete the minor.