LSA CHEMISTRY
UNIVERSITY OF MICHIGAN

Biochemistry Minor

University of Michigan - Department of Chemistry

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

* Pharmaceutical Sciences major

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 150	Fundamental Physics for the Life Sciences I		*F, W, Sp*	4
OR				
PHYS 140	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	Chemical Principles		*F, W, Sp*	3
OR				
CHEM 370	Physical and Chemical Principles Behind Biology and Medicine		*F*	3
CHEM 351	Fundamentals of Biochemistry		*F, W*	4
OR				
**BIOLCHEM 415	Introductory Biochemistry		*F, W*	4
OR				
**MCDB 310	Introductory Biochemistry		*F, W, Sp, Su*	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		*F, W*	2
CHEM 242	Introduction to Chemical Analysis Laboratory		*F, W*	2
OR				
CHEM 245	Biomedical Analytical Chemistry		*F, W*	2
CHEM 246/247	Biomedical Analytical Chemistry Laboratory I and II		*F, W*	2
CHEM 451	Advanced Biochemistry I Macromolecular Structure and Function		*F, W*	4
CHEM 452	Advanced Biochemistry II Cellular Processes		*W*	4
BIO 305	Genetics		*F, W, Sp, Su*	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.

* Students can still earn a BS Pharmaceutical major and a Biochemistry minor by sharing their Biochemistry course (CHEM 351 or MCDB 310 or Biolchem 415) and taking three or four of the following courses/sets of courses to get to the 18 credits needed to complete the minor: (CHEM 451, CHEM 452, Biology 305, (CHEM 241 and 242 or CHEM 245, 246, and 247)).

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