

Chemistry Minor

University of Michigan - Department of Chemistry

Effective: Fall 2019

The Chemistry minor provides a broad and general exposure to the traditional areas of the chemical sciences.

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

Biochemistry, Biomolecular Science, Interdisciplinary Chemical Sciences, Chemistry, Cell and Molecular Biology, Biology, General Biology, Neuroscience, Ecology and Evolutionary Biology, Plant Biology, and Microbiology.

Prerequisites: - AP credit for Physics (125 or 139) will fulfill the Physics requirement.

- AP credit for Math (120) will fulfill the Math requirement.

Course #	Course Description	Completed	Typically Offered	Credits
PHYS 135 OR 140	Physics for the Life Sciences I OR General Physics I		<i>F, W, Sp</i>	4
MATH 115	Calculus I		<i>F, W, Sp, Su</i>	4

Minor Program requirements (at least 18 credit hours):

Core courses

Course #	Course Description	Completed	Typically Offered	Credits
* CHEM 210	Structure and Reactivity I		<i>F, W, Sp</i>	3
CHEM 211	Investigations in Chemistry: Laboratory		<i>F, W, Sp</i>	2

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

Course #	Course Description	Term Completed	Term Typically	Credits
CHEM 215	Structure and Reactivity II		<i>F, W, Sp</i>	3
CHEM 216	Synthesis and Characterization of Organic Compounds		<i>F, W, Sp</i>	2
CHEM 241	Introduction to Chemical Analysis		<i>F, W</i>	2
CHEM 242	Introduction to Chemical Analysis Laboratory		<i>F, W</i>	2
CHEM 260	Chemical Principles		<i>F, W, Sp</i>	3
OR				
CHEM 261 & CHE 330	Introduction to Quantum Chemistry (1 CR) Chemical and Engineering Thermodynamics (2 CR)		<i>F, W, Sp</i> <i>W</i>	3
CHEM 302	Inorganic Chemistry: Principles of Structure, Reactivity, and Function		<i>W</i>	3
OR				
CHEM 303	Introductory Bioinorganic Chemistry: The Role of Metals in Life		<i>F, W</i>	3
CHEM 402	Intermediate Inorganic Chemistry		<i>F</i>	3
CHEM 419	Intermediate Physical Organic Chemistry		<i>W</i>	3
OR				
CHEM 420	Intermediate Organic Chemistry		<i>W</i>	3
CHEM 461	Physical Chemistry I		<i>F</i>	3
CHEM 482	Synthesis and Characterization- ULWR		<i>F</i>	3

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.