

Biology: MINOR Requirements for Secondary Teacher Certification

These requirements are for students entering the program in summer 2008 or later.

Major/minor requirements are subject to change. All candidates are expected to consult with a School of Education advisor as they plan and progress through their program. In addition, candidates are responsible for checking with departments about possible prerequisites/co-requisites for non-Education courses required by their major/minor.

Prerequisite courses

(Note: These do not count toward the required credits for the major.)

Course Number	Course Title	Credits	Completed?
CHEM 125	General Chemistry Laboratory I	2	
CHEM 130*	General Chemistry: Macroscopic Investigations and Reaction Principles	3	
CHEM 210	Structure and Reactivity I	4	
CHEM 211	Investigations in Chemistry	1	
CHEM 215	Structure and Reactivity II	3	
CHEM 216	Synthesis and Characterization of Organic Compounds	2	

* If possible, students should take the studio section of Chemistry 130. This section is generally only offered in the fall. Please contact the Chemistry Department at (734) 763-7315 to identify which section is the studio section.

Biology minors must complete a minimum of 23 credits including the following:

Minor Requirements

Course Number	Course Title	Credits	Completed?
EDUC 423	On-line Module: Methods for Secondary Science Minors <i>Note: Students with a science teaching major are exempt from this course.</i>	1	
BIOLOGY 171	Introductory Biology: Ecology and Evolution	4	
BIOLOGY 172	Introductory Biology: Molecular, Cellular, and Developmental	4	
BIOLOGY 173	Introductory Biology Lab	2	
BIOLOGY 225	Principles of Animal Physiology: Lecture	3	
BIOLOGY 305	Genetics	3	

Select one course:

BIOLCHEM 415	Introductory Biochemistry	3	
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MCDB 310	Introductory Biochemistry	3	
MCDB 311	Introductory Biochemistry	3	

Select one or two courses for a total of at least three credits:

BIOLOGY 226	Animal Physiology	2	
BIOLOGY 230	Introduction to Plant Biology	4	
BIOLOGY 281	General Ecology	3	
BIOLOGY 282	General Ecology Laboratory	3	
EEB 381	Bio Station Ecology	5	
EEB 390	Evolution	3	
MCDB 306	Introductory Genetics Laboratory	3	