

NATURAL SCIENCE IN BIOLOGY (BACHELOR OF SCIENCE, B.S.)

Requirements

*Effective Fall 2020, this program is being phased out and has a 3-year teach out plan. More information can be found here (<https://www.missouriwestern.edu/acadaff/phased-out-programs/>).

Code	Title	Credit Hours
General Studies		
Students must complete General Studies courses (http://catalog.missouriwestern.edu/undergraduate/university-information/academic-standards-regulations/baccalaureate-degree/#bachelor-general-studies)		42-47
Major Requirements		
BIO 105	Principles of Organismal Biology	4
BIO 106	Principles of Cell Biology	4
BIO 205	Genetics	4
BIO 225	Ecology	4
BIO 390	Microbiology	4
CHE 111	General Chemistry I	5
CHE 120	General Chemistry II with Qualitative Analysis	5
CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Laboratory I	2
CHE 321	Quantitative Analysis	4
CHE 370	Biochemistry I	4
PHY 110	College Physics I	4
PHY 111	College Physics II	4
ESC 111	Physical Geology	4
MAT 111	Introductory Statistics	3-4
or MAT 111E	Introductory Statistics	
Plus eight additional credits from biology courses numbered 300 or higher selected from the following:		8
BIO 307	Plant Morphology	
BIO 308	History and Philosophy of the Natural Sciences	
BIO 310	Molecular Cell Biology	
BIO 311	Animal Physiology	
BIO 318	Ornithology	
BIO 325	Introduction to Paleontology	
BIO 350	Plant Systematics	
BIO 351	Local Flora	
BIO 360	Development of Federal Wildlife Law	
BIO 375	Pathophysiology	
BIO 385	Herpetology	
BIO 411	Developmental Biology	
BIO 415	Invertebrate Biology	
BIO 416	Vertebrate Biology	
BIO 417	Medical Parasitology	

BIO 418	Mammalogy
BIO 419	Animal Behavior
BIO 420	Biology Teaching Practicum
BIO 421	Immunology
BIO 425	Biology Internship
BIO 430	Molecular Basis of Disease
BIO 440	Plant Physiology
BIO 441	Virology
BIO 450	Independent Research/Project
BIO 455	Entomology

¹ No more than four credit hours combined of BIO 420, BIO 425, and BIO 450.

University Graduation Requirements

- Earn a minimum of 120 credit hours (100 level and higher, maximum of 6 CED credit hours applicable).
- Earn a minimum of 30 credit hours in upper-division courses. Lower-division transfer courses accepted as meeting upper-division departmental course requirements cannot be used to fulfill this requirement.
- Earn 30 of the last 45 credit hours at MWSU in institutional coursework (exclusive of credit by examination).
- Participate in required departmental and campus wide assessments.
- Fulfill the Missouri Constitution requirement.
- Successfully pass the Missouri Higher Education Civics Achievement exam.