

The University of Montana Western

2017-2018 Catalog

Bachelor of Science: Ecology

Name	Evaluated by
ID #	Date

Institution	Abbreviated
Institution	Abbreviated
Institution	Abbreviated

Bachelor of Science: Ecology 120 Total Required Credits

General Education Requirements (printable worksheet available at advising.umwestern.edu)

The following required courses are general education requirements specific to this degree. They will satisfy these particular general education categories:

Math 100-Level (category located on page 1 of your general education worksheet)

_____ STAT 121 Probability _____ 4
Prereq: M 095 or appropriate ACT or SAT score.

Natural Sciences (category located on page 2 of your general education worksheet)

_____ BIOB 160 Principles of Living Systems _____ 4
Prereq: M 095 or appropriate ACT or SAT score.

_____ CHMY 141 College Chemistry I _____ 4
Prereq: M 095 or appropriate ACT or SAT score; (high school chemistry or CHMY 121 recommended).

Institution	Accepted
For Office Use	

32 Credits

Ecology Major Core

_____ BIOB 170 Principles of Biology Diversity _____ 4
Prereq: M 095 or appropriate ACT or SAT score; (BIOB 160 recommended).

_____ BIOB 260 Cellular & Molecular Biology _____ 4
Prereq: BIOB 160.

_____ BIOB 375 General Genetics _____ 4
Prereq: BIOB 260 and STAT 121.

_____ BIOB 420 Evolution _____ 4
Prereq: Junior/Senior standing and BIOB 375.

_____ BIOE 250 Conservation Biology _____ 4
Prereq: Gen Ed 100-level math; Consider BIOB 101 or 170 if no HS Biology

_____ BIOE 370 General Ecology _____ 4
Prereq: BIOB 170.

_____ BIOO 220 General Botany _____ 4
Prereq: BIOB 160.

_____ CHMY 143 College Chemistry II _____ 4
Prereq: CHMY 141.

_____ M 110 Intro to Math Software _____ 4
Prereq: STAT 121 with B- or better

_____ STAT 233 Biostatistics _____ 4
Prereq: STAT 121 with C- or better

_____ GEO or PHSX Any Geology or Physics course _____ 4

52 Credits

For **Organizmal Ecology** select **one** of the following: (4 credits)

_____ BIOM 260* General Microbiology _____ 4

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		<i>Prereq: BIOB 260</i>					
_____	BIOM 427*	General Parasitology	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior standing</i>					
_____	BIOO 435*	Plant Systematics	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: BIOO 220</i>					
_____	BIOO 470	Ornithology	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: BIOB 170</i>					
_____	BIOO 475	Mammalogy	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: BIOB 170</i>					

*** Required for Fish and Wildlife Option**

For **Quantitative Ecology** select **one** of the following: (4 credits)

_____	M 345*	Methods of Data Analysis & Modeling	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: STAT 121 and M 210 with B- or better</i>					
_____	STAT 433	Stochastic Modeling	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: STAT 121 and M 210 with B- or better</i>					
_____	STAT 437	Intro to Applied Multivariate Analysis	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: STAT 121 and M 210 with B- or better</i>					

*** Required for Quantitative Ecology Option**

Select **one** of the following: (3 credits)

_____	BIOE 498	Internship/Cooperative Education	_____	3	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior Standing</i>					
_____	BIOE 499	Senior Thesis/Capstone	_____	3	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior Standing</i>					
_____	WILD 498	Internship/Cooperative Education	_____	3	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior Standing</i>					
_____	WILD 499	Senior Thesis/Capstone	_____	3	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior Standing</i>					

Select **one** of the following to coincide with the Internship/Thesis Rubric: (1 credit)

_____	BIOE 494P	Seminar: Public Presentation	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior Standing</i>					
_____	WILD 494P	Seminar: Public Presentation	_____	4	<table border="1"><tr><td></td><td></td></tr></table>		
		<i>Prereq: Junior/Senior Standing</i>					

Ecology Option Areas (Choose one) (printable worksheets are available at advising.umwestern.edu)

_____	Fish and Wildlife Ecology	24
_____	Integrative Ecology	24
_____	Quantitative Ecology	24

Electives to reach 120 total credits

Select any college-level courses from the catalog to bring degree total to 120 credits.

_____	_____	<table border="1"><tr><td></td><td></td></tr></table>		
_____	_____	<table border="1"><tr><td></td><td></td></tr></table>		
_____	_____	<table border="1"><tr><td></td><td></td></tr></table>		

120 Total Earned Credits