

**The University of Montana Western**  
**2017-2018 Catalog**  
**Bachelor of Science: Biology & Secondary Education Double Major**

Name \_\_\_\_\_ Evaluated by \_\_\_\_\_  
 ID # \_\_\_\_\_ Date \_\_\_\_\_

Institution \_\_\_\_\_ Abbreviated \_\_\_\_\_  
 Institution \_\_\_\_\_ Abbreviated \_\_\_\_\_  
 Institution \_\_\_\_\_ Abbreviated \_\_\_\_\_

**Bachelor of Science: Biology** **120 Total Required Credits**

**General Education Requirements** (printable worksheet available at [advising.umwestern.edu](http://advising.umwestern.edu)) **32 Credits**

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.*

**Humanities: Literary & Artistic Studies**

\_\_\_\_\_ PHL 241 History & Philosophy of Science \_\_\_\_\_ 4

**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).*

**Biology Major Core** **52 Credits**

\_\_\_\_\_ 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 370 General Ecology \_\_\_\_\_ 4  
*Prereq: BIOB 170.*

\_\_\_\_\_ BIOO 220 General Botany \_\_\_\_\_ 4  
*Prereq: BIOB 160.*

\_\_\_\_\_ CHMY 143 College Chemistry II \_\_\_\_\_ 4  
*Prereq: CHMY 141.*

\_\_\_\_\_ CHMY 321 Organic Chemistry I \_\_\_\_\_ 4  
*Prereq: CHMY 143.*

\_\_\_\_\_ CHMY 323 Organic Chemistry II \_\_\_\_\_ 4  
*Prereq: CHMY 321.*

Select **one** of the following: (4 credits)

\_\_\_\_\_ M 161 Survey of Calculus \_\_\_\_\_ 4  
*Prereq: M 095 or appropriate ACT or SAT score.*

\_\_\_\_\_ M 171 Calculus I \_\_\_\_\_ 4  
*Prereq: M 112; or C- or higher in high school trigonometry*

Institution	Accepted
For Office Use	

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Select **two** of the following: (8 credits)

_____	PHSX	220	Physics I	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: M 161 or M 171.</i>				
_____	PHSX	222	Physics II	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: M 161 or M 171.</i>				
_____	PHSX	224	Physics III	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: M 161 or M 171.</i>				

Select **one** of the following: (4 credits)

_____	STAT	217	Intermediate Statistical Concepts	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: STAT 121.</i>				
_____	STAT	233	Biostatistics	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: STAT 121.</i>				

**Education Professional Core**

_____	EDU	201	Intro to Education w/Field Experience	_____	<b>36</b>	<b>credits</b>	<input type="text"/>	<input type="text"/>
_____	EDU	222	Educational Psych and Child Development	_____			<input type="text"/>	<input type="text"/>
_____	EDU	306	School Law & Advocacy for all K-12 Learners	_____			<input type="text"/>	<input type="text"/>
			<i>Prereq: EDU 382, TEP</i>					
_____	EDU	311	Cultures, Diversity & Ethics in Global Ed	_____			<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP</i>					
_____	EDU	371	Foundation of Ed Tehc in Secondary Schools	_____			<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP</i>					
_____	EDU	382	Assesment, Curriculum & Instruction	_____			<input type="text"/>	<input type="text"/>
			<i>Prereq: EDU 201, 222</i>					
_____	EDU	444	Classroom Management in Secondary Schools	_____			<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP; Taken in semester prior to student teaching</i>					
_____	EDU	481	Content Area Literacy	_____	<input type="text"/>	<input type="text"/>		
			<i>Prereq: EDU 382, TEP</i>					
_____	EDU	497S	Methods: 5-12 Science	_____	<input type="text"/>	<input type="text"/>		
			<i>Prereq: TEP Preferably taking in semester prior to student teaching</i>					
_____	HEE	340	Methods of Health Education	_____	<input type="text"/>	<input type="text"/>		
			<i>Prereq: EDU 201</i>					

**Student Teaching**

_____	EDU	494	Teacher Work Sample	_____	<b>2</b>	<input type="text"/>	<input type="text"/>
_____	EDU	495S	Student Teaching 5-12	_____	<b>6</b>	<input type="text"/>	<input type="text"/>
			<i>Prereq: Admission to student teaching and consent of Director of Field Experience</i>				

**Total Earned Credits**

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