

The University of Montana Western
2015-2016 Catalog

Bachelor of Science: Biology & Secondary Education Double Major

Name	Evaluated by
ID #	Date
Institution	Abbreviated
Institution	Abbreviated
Institution	Abbreviated

Bachelor of Science: Biology & Secondary Education Double Major **128 Total Required Credits**

General Education Requirements (printable worksheet available at advising.umwestern.edu) **31-32 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 equivalent ACT score 22+ or SAT score 520+.

Institution	Accepted
For Office Use	

Humanities: Literary & Artistic Studies (category located on page 2 of your general education worksheet)

_____ **PHL 241 History of Philosophy and Science** _____ **4**

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

_____ **BIOB 160 Principles of Living Systems** _____ **4**

Prereq: M 095 or higher.

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_____ **CHMY 141 College Chemistry I** _____ **4**

Prereq: M 095 or higher; (high school chemistry or CHMY 121 recommended).

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Biology Major Core **52 Credits**

_____ **BIOB 170 Principles of Biology Diversity** _____ **4**

Prereq: M 095 or higher; (BIOB 160 recommended).

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_____ **BIOB 260 Cellular & Molecular Biology** _____ **4**

Prereq: BIOB 160.

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_____ **BIOB 375 General Genetics** _____ **4**

Prereq: BIOB 260 and STAT 121.

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_____ **BIOB 420 Evolution** _____ **4**

Prereq: Junior/Senior standing and BIOB 375.

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_____ **BIOE 370 General Ecology** _____ **4**

Prereq: BIOB 170.

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_____ **BIOO 220 General Botany** _____ **4**

Prereq: BIOB 160.

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_____ **CHMY 143 College Chemistry II** _____ **4**

Prereq: CHMY 141.

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_____ **CHMY 321 Organic Chemistry I** _____ **4**

Prereq: CHMY 143.

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_____ **CHMY 323 Organic Chemistry II** _____ **4**

Prereq: CHMY 321.

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_____ **M 171 Calculus I** _____ **4**

Prereq: M 112; or high school trigonometry and M 095 or ACT score 22+ or SAT score 520+.

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

_____ **PHSX 220 Physics I** _____ **4**

Prereq: M 161 or M 171.

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_____ **PHSX 222 Physics II** _____ **4**

Prereq: M 161 or M 171.

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_____ **PHSX 224 Physics III** _____ **4**

Prereq: M 161 or M 171.

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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>				

Educational Professional Core

36 Credits

See page 134 in the 2015-16 Catalog for recommended course sequence

_____	EDU	201	Intro to Education with Field Experience	_____	4	<input type="text"/>	<input type="text"/>
_____	EDU	222	Educational Psychology and Child Development	_____	4	<input type="text"/>	<input type="text"/>
_____	EDU	306	School Law & Advocacy for all K-12 Learners	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: EDU 382; and TEP.</i>				
_____	EDU	311	Cultures, Diversity, & Ethics in Global Ed	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP.</i>				
_____	EDU	371	Foundation of Ed Tech in Secondary Schools	_____	2	<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP.</i>				
_____	EDU	382	Assessment, Curriculum, & Instruction	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: EDU 201; and EDU 222.</i>				
_____	EDU	444	Classroom Management in Secondary Schools	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP; taken in semester prior to student teaching.</i>				
_____	EDU	481	Content Area Literacy	_____	2	<input type="text"/>	<input type="text"/>
			<i>Prereq: EDU 382; and TEP.</i>				
_____	EDU	497S	Methods: 5-12 Science	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: TEP; preferably taken in semester prior to student teaching.</i>				

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

_____	HEE	340	Methods of Health Education	_____	4	<input type="text"/>	<input type="text"/>
_____	HTH	220	Human Sexuality	_____	4	<input type="text"/>	<input type="text"/>

Student Teaching

8 Credits

_____	EDU	495S	Student Teaching 5-12	_____	8	<input type="text"/>	<input type="text"/>
			<i>Prereq: Admission to student teaching and consent of Director of Field Experience.</i>				

Electives to reach 128 total credits

0-1 Credits

Subject	Course #	Title			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total Earned Credits

First Aid & CPR Certification (Current certification in first aid & safety including child and adult CPR and ARD, and infant CPR. ECP 100 First Aid & Safety (1) is recommended).

Information & Technology Exam (If a student does not pass the UMW Information & Technology exam upon entrance to UMW, the student will take COMS 115 Computer Basics for Educators (4) to assist in passing the exam. The exam must be passed prior to admission to the Teacher Education Program - TEP).