

# The University of Montana Western

2016-2017 Catalog

## Bachelor of Science: General Science Broadfield & Secondary Education Double Major

<b>Name</b>	<b>Evaluated by</b>
<b>ID #</b>	<b>Date</b>

<b>Institution</b>	<b>Abbreviated</b>
<b>Institution</b>	<b>Abbreviated</b>
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**Bachelor of Science: General Science Broadfield & Secondary Education Double Major** **128 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:

Institution	Accepted
For Office Use	

**Math 100-Level (4 Credits)** (category located on page 1 of your general education worksheet)

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

_____	M	161	Survey of Calculus	_____	4		
			<i>Prereq: M 095 or appropriate ACT or SAT score.</i>				
_____	M	171	Calculus I	_____	4		
			<i>Prereq: M 112; or high school trigonometry and M 095 or appropriate ACT or SAT score.</i>				

**Humanities: Literary & Artistic Studies (4 Credits)** (category located on page 2 of your general education worksheet)

_____	PHL	241	History of Philosophy and Science	_____	4		
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**Natural Sciences (8 Credits)** (category located on page 2 of your general education worksheet)

_____	BIOB	160	Principles of Living Systems	_____	4		
			<i>Prereq: M 095 or appropriate ACT or SAT score.</i>				
and Select <b>one</b> of the following: (4 credits)							
_____	GEO	101	Introduction to Physical Geology	_____	4		
			<i>Prereq: M 095 or appropriate ACT or SAT score.</i>				
_____	GEO	103	Introduction to Environmental Geology	_____	4		
			<i>Prereq: M 095 or appropriate ACT or SAT score.</i>				

**General Science Broadfield Major Core**

**56 Credits**

_____	ASTR	110	Introduction to Astronomy	_____	4		
			<i>Prereq: M 095 or appropriate ACT or SAT score.</i>				
_____	BIOB	260	Cellular & Molecular Biology	_____	4		
			<i>Prereq: BIOB 160.</i>				
_____	BIOB	375	General Genetics	_____	4		
			<i>Prereq: BIOB 260 and STAT 121.</i>				
_____	BIOB	420	Evolution	_____	4		
			<i>Prereq: Junior/Senior standing and BIOB 375.</i>				
_____	BIOO	220	General Botany	_____	4		
			<i>Prereq: BIOB 160.</i>				
_____	CHMY	141	College Chemistry I	_____	4		
			<i>Prereq: M 095 or appropriate ACT or SAT score; (high school chemistry or CHMY 121 recommended).</i>				
_____	CHMY	143	College Chemistry II	_____	4		
			<i>Prereq: CHMY 141.</i>				
_____	CHMY	321	Organic Chemistry I	_____	4		
			<i>Prereq: CHMY 143.</i>				
_____	CHMY	323	Organic Chemistry II	_____	4		
			<i>Prereq: CHMY 321.</i>				
_____	GEO	226	Rocks, Minerals, & Resources	_____	4		
			<i>Prereq: GEO 101 or 103; and either CHMY 121 or 141.</i>				

_____	GEO	309	Sedimentation & Stratigraphy	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: GEO 101 or 103</i>				
_____	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>				

**Educational Professional Core**

**34 Credits**

See page 138 in the 2016-17 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	382	Assessment, Curriculum, & Instruction	_____	4	<input type="text"/>	<input type="text"/>
			<i>Prereq: EDU 201; and EDU 222.</i>				
_____	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	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>				
_____	HEE	340	Methods of Health Education	_____	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).