

# The University of Montana Western

## 2016-2017 Catalog

### Bachelor of Science: Earth Science & Secondary Education Double Major

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

<b>Institution</b>	<b>Abbreviated</b>
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### Bachelor of Science: Earth Science & Secondary Education Double Major 128 Total Required Credits

#### General Education Requirements (printable worksheet available at [advising.umwestern.edu](http://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 & Philosophy of Science \_\_\_\_\_ 4

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

\_\_\_\_\_ CHMY 141 College Chemistry I \_\_\_\_\_ 4  
*Prereq: M 095 or higher; (high school chemistry or CHMY 121 recommended).*

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Select **ONE** of the following:

\_\_\_\_\_ GEO 101 Intro to Physical Geology \_\_\_\_\_ 4  
*Prereq: M 095 or higher or equivalent.*

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\_\_\_\_\_ GEO 103 Intro to Environmental Geology \_\_\_\_\_ 4  
*Prereq: M 095 or higher or equivalent.*

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#### Earth Science Major Core

**44 Credits**

\_\_\_\_\_ ASTR 110 Intro to Astronomy \_\_\_\_\_ 4  
*Prereq: M 095 or higher or equivalent*

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

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\_\_\_\_\_ ENSC 348 Soil Science \_\_\_\_\_ 4  
*Prereq: M 095 or higher or equivalent, and CHMY 121 or 141; and either BIOB 101, 160 or 170; and GEO 101 or 103.*

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\_\_\_\_\_ GEO 226 Rocks, Minerals & Resources \_\_\_\_\_ 4  
*Prereq: GEO 101 or 103; and either CHMY 121 or 141.*

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\_\_\_\_\_ GEO 230 Geology of the American West \_\_\_\_\_ 4  
*Prereq: GEO 101 or 103.*

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\_\_\_\_\_ GEO 309 Sedimentation & Stratigraphy \_\_\_\_\_ 4  
*Prereq: GEO 101 or 103.*

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\_\_\_\_\_ GEO 315 Structural Geology \_\_\_\_\_ 4  
*Prereq: GEO 226.*

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\_\_\_\_\_ GEO 378 Surficial Processes \_\_\_\_\_ 4  
*Prereq: GEO 226 or BIOO 220 or BIOO 435.*

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\_\_\_\_\_ GEO 470 Geological Research & Writing \_\_\_\_\_ 4  
*Prereq: Junior/Senior standing and GEO 101 or 103.*

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\_\_\_\_\_ PHSX 249 Physical Meteorology \_\_\_\_\_ 4  
*Prereq: M 095 or higher or equivalent.*

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\_\_\_\_\_ STAT 217 Intermediate Statistical Concepts \_\_\_\_\_ 4  
*Prereq: STAT 121.*

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

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

_____	HEE	340	Methods of Health Education	4		
_____	HTH	220	Human Sexuality	4		

**Student Teaching**

**8 Credits**

_____	EDU	495S	Student Teaching 5-12 <i>Prereq: Admission to student teaching and consent of Director of Field Experience.</i>	8		
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**Electives to reach 128 total credits**

**8-9 Credits**

Subject	Course #	Title			

**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).