

The University of Montana Western
2015-2016 Catalog

Bachelor of Science: Earth Science & Secondary Education Double Major

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

Bachelor of Science: Earth Science & 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 & 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).