

The University of Montana Western
2015-2016 Catalog

Bachelor of Science: Mathematics & Secondary Education Double Major

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

Bachelor of Science: Mathematics & 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)

Institution	Accepted
For Office Use	

_____ STAT 121 Probability
Prereq: M 095 or equivalent ACT score 22+ or SAT score 520+.

4

Mathematics Major Core

48 Credits

_____ M 171 Calculus I
Prereq: M 112 or evidence of grade C- or higher in high school trigonometry.

4

_____ M 172 Calculus II
Prereq: M 171 grade B- or higher

4

_____ M 210 Intro to Math Software
Prereq: Any 100-400 level math course grade B- or higher.

4

_____ M 221 Intro to Linear Algebra
Prereq: M 171 and M 210 grade B- or higher.

4

_____ M 273 Multivariable Calculus
Prereq: M 172 grade B- or higher.

4

_____ M 274 Intro to Differential Equations
Prereq: M 172 and M 210 grade B- or higher.

4

_____ M 329 Modern Geometry
Prereq: Sophomore standing and meet the proficiency standards.

4

_____ M 343 Foundations of Mathematics
Prereq: Sophomore standing and meet the proficiency standards.

4

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

_____ STAT 217 Intermediate Statistical Concepts
Prereq: STAT 121 grade C- or higher.

4

_____ STAT 233 Biostatistics
Prereq: STAT 121 grade C- or higher.

4

_____ STAT 422 Mathematical Statistics
Prereq: STAT 121 and M 172 grade B- or higher.

4

Select **three** of the following: (12 credits)

_____ M 414 Deterministic Models
Prereq: M 172 and M 210 grade B- or higher.

4

_____ M 435 Advanced Calculus
Prereq: M 172 and M 343 grade B- or higher

4

_____ M 472 Intro to Complex Analysis
Prereq: M 273 and M 343 grade B- or higher.

4

_____ M 431 Abstract Algebra
Prereq: M 343 grade B- or higher.

4

_____	M	444	Advanced Number Theory <i>Prereq: M 343 grade B- or higher.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	M	494	Seminar/Workshop <i>Prereq: M 343 grade B- or higher and other (topic dependent) courses set by instructor.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	M	499	Senior Project/Thesis <i>Prereq: Senior Standing, c/I, c/pc, and c/vc.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	STAT	433	Stochastic Modeling <i>Prereq: STAT 121 and M 210 grade B- or higher.</i>	_____	4	<input type="text"/>	<input type="text"/>

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 <i>Prereq: EDU 382; and TEP.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	EDU	311	Cultures, Diversity, & Ethics in Global Ed <i>Prereq: TEP.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	EDU	371	Foundation of Ed Tech in Secondary Schools <i>Prereq: TEP.</i>	_____	2	<input type="text"/>	<input type="text"/>
_____	EDU	382	Assessment, Curriculum, & Instruction <i>Prereq: EDU 201; and EDU 222.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	EDU	444	Classroom Management in Secondary Schools <i>Prereq: TEP; taken in semester prior to student teaching.</i>	_____	4	<input type="text"/>	<input type="text"/>
_____	EDU	481	Content Area Literacy <i>Prereq: EDU 382; and TEP.</i>	_____	2	<input type="text"/>	<input type="text"/>
_____	EDU	497M	Methods: 5-12 Mathematics <i>Prereq: TEP and M 329</i>	_____	4	<input type="text"/>	<input type="text"/>

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 <i>Prereq: Admission to student teaching and consent of Director of Field Experience.</i>	_____	8	<input type="text"/>	<input type="text"/>
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Electives to reach 128 total credits

4-5 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"/>

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).