

The University of Montana Western
2017-2018 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) **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 <i>Prereq: M 095 or appropriate ACT or SAT score.</i>	4		

Mathematics Major Core **48 Credits**

_____ M 107 Geometry <i>Prereq: M 095 or appropriate ACT or SAT score.</i>	4		
---	---	--	--

_____ M 171 Calculus I <i>Prereq: M 112 or evidence of grade C- or higher in high school trigonometry.</i>	4		
---	---	--	--

_____ M 172 Calculus II <i>Prereq: M 171 grade B- or higher</i>	4		
--	---	--	--

_____ M 210 Intro to Math Software <i>Prereq: STAT 121 grade B- or higher</i>	4		
--	---	--	--

_____ M 221 Intro to Linear Algebra <i>Prereq: M 210 grade B- or higher.</i>	4		
---	---	--	--

_____ M 343 Foundations of Mathematics <i>Prereq: Sophomore standing and M 210 grade B- or higher</i>	4		
--	---	--	--

_____ M 345 Methods of Data Analysis and Modeling <i>Prereq: STAT 121 and M 210 grade B- or higher</i>	4		
---	---	--	--

_____ STAT 391A Data Mining <i>Prereq: M 210 and STAT 437 grade B- or higher</i>	4		
---	---	--	--

_____ STAT 433 Stochastic Modeling <i>Prereq: STAT 121 and M 210 grade B- or higher.</i>	4		
---	---	--	--

_____ STAT 437 Intro to Applied Multivariate Statistics <i>Prereq: STAT 217 or 233 and M 210 grade B- or higher</i>	4		
--	---	--	--

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

_____ STAT 217 Intermediate Statistical Concepts <i>Prereq: STAT 121.</i>	4		
--	---	--	--

_____ STAT 233 Biostatistics <i>Prereq: STAT 121.</i>	4		
--	---	--	--

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

_____ M 364 Topics in Discrete Mathematics <i>Prereq: M 343 grade B- or higher.</i>	4		
--	---	--	--

_____ M 494 Seminar/Workshop <i>Prereq: M 343 grade B- or higher and other topic dependent courses set by instructor.</i>	4		
--	---	--	--

Educational Professional Core

36 Credits

See page 138 in the 2016-17 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	_____	4		
			<i>Prereq: EDU 382; and TEP.</i>				
_____	EDU	311	Cultures, Diversity, & Ethics in Global Ed	_____	4		
			<i>Prereq: TEP.</i>				
_____	EDU	371	Foundation of Ed Tech in Secondary Schools	_____	2		
			<i>Prereq: TEP.</i>				
_____	EDU	382	Assessment, Curriculum, & Instruction	_____	4		
			<i>Prereq: EDU 201; and EDU 222.</i>				
_____	EDU	444	Classroom Management in Secondary Schools	_____	4		
			<i>Prereq: TEP; taken in semester prior to student teaching.</i>				
_____	EDU	481	Content Area Literacy	_____	2		
			<i>Prereq: EDU 382; and TEP.</i>				
_____	EDU	497M	Methods: 5-12 Mathematics	_____	4		
			<i>Prereq: TEP; preferably taken in semester prior to student teaching.</i>				
_____	HEE	340	Methods of Health Education	_____	4		
			<i>Prereq: EDU 201</i>				

Student Teaching

8 Credits

_____	EDU	494	Teacher Work Sample		2		
_____	EDU	495S	Student Teaching 5-12		6		
			<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			

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).