

Middle Level Mathematics Endorsement Minor (4th – 9th Grades)

Note: This program is a **minor** program for students seeking a **secondary** teaching certificate with another major.

Minor requirements (58 credits):

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 114	Algebra Concepts	5	Math 103A&B (3.0 or better), or Math 104A&B (2.0 or better), or satisfactory score on APTP Math Placement Test.	Fall, winter, spring, summer
Math 211	Structure of Elementary Mathematics I	5	Engl 100, Math 114 (2.0 or better) or 104 (3.0 or better) or satisfactory score on APTP Math Placement Test.	Fall, winter, spring, summer
Math 212	Structure of Elementary Mathematics II	5	Math 211	Fall, winter, spring, summer
Math 311	Functions and Relations for K-8 Teachers [Math 105 can substitute for this course.]	5	Math 114 or satisfactory score on APTP Math Placement Test, and MATH 211 & 212. <i>*Math 104 is unacceptable.</i>	Fall, winter
Math 312	Geometry for the K-8 Teacher	5	Math 311 & computer literacy clearance.	Fall
MTED 390	Methods of Teaching Elementary School Mathematics	5	Math 211 & 212, Junior standing, and EDUC 303	Fall, winter, spring, summer
Math 411	Discrete Mathematics for K-8 Teachers [Math 225 can substitute.]	4	Math 311	Winter
MTED 412	Advanced Methods of Teaching K-8 Mathematics	5	Math 311 & MTED 390 or MTED 493	Fall, spring
Math 413	Data Analysis & Probability for Middle Level Teachers	3	Math 212, Math 311, MTED 390, and MTED 412	Spring odd years, Summer even years
Math 416	Calculus for Middle Level Teachers [Math 161 can substitute.]	4	Math 105 or Math 311	Spring even years, Summer odd years
Math 420	Problem Solving for K-8 Teachers	4	Math 311 & MTED 390 or equivalent or teaching experience, and computer literacy clearance	Winter, spring
MTED 490	Department Senior Capstone: Mathematics Practicum/K-8	5	MTED 390, MTED 412, & Senior standing	Fall, winter, spring
EDUC 417	Culture of Middle Level School	3	EDUC 200, EDUC 303, EDUC 308, and Washington State Patrol Clearance/FBI finger-printing receipt submitted	Summer

*This minor requires completion of a major and Professional Education (teacher certification) requirements (46-47 credits). See the suggested program schedule on the next page.

To declare this minor please contact the Department Chair indicated below who will plan your first quarter classes and assign a departmental advisor.

Dr. Barbara L. Alvin, Department Chair
Department of Mathematics
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SCHEDULE FOR NEW FRESHMEN

ASSUMPTIONS: This assumes that the student is initially placed in college-level Computer Literacy, English Composition, and Mathematics. Otherwise, the student also may need to take any or all of the following: CPLA 100, ENGL 100, Math 103A&B, and Math 10A&B..

Year	Fall	Notes	Credits	Winter	Notes	Credits	Spring	Notes	Credits
Freshman	MATH 114	P	5	MATH 211	P	5	MATH 212	P	5
	BIOL 115* [Natural Science GEGR]		5	ENGL 201	P/T	5	GEGR*	P	5
	ENGL 101	P/T	5	HIST 110* [Social Science GEGR]		5	GEGR*	P	5
			15			15	CPLA 101	P/T	1
									16
Sophomore	MATH 311	P	5	PHYS 115* [Natural Science GEGR]		5	PHYS 115* [Natural Science GEGR]		5
	BIOL 115* [Natural Science GEGR]		5	CMST 340 or SOCI 320* P		5	GEOG/GEOL 115* [Nat. Sci. GEGR]		5
	GEOG 101* [Social Science GEGR]		5	MAJOR course* P		5	HIST 104* [International Studies]		5
			15			15	EDUC 201	P	3
									18
Junior	MTED 390	P	5	MATH 411	P	4	MATH 420	P	4
	MATH 312	P	5	EDUC 200	PC	1	MATH 413 or 416	P	3 or 4
	CMST 200	P	4	EDUC 303	PC	3	MAJOR course* P		5
	MAJOR course* P		5	EDUC 309	PC	3	CEDP 302	P	5
			19	MAJOR course* P		5			15 or 16
					16				
Senior	MATH 412*	P	5	EDUC 413	P	4	MATH 413 or 416	P	3 or 4
	MAJOR course* P		5	MAJOR course* P		5	EDUC 341	P	4
	MAJOR course* P		5	MAJOR course* P		5	MAJOR course* P		5
	SPED 363		4			19	MAJOR course* P		5
		19						18	
5 th Year	MTED 490	P	5	EDUC 423	P	15	⇒ Summer Course Requirement: Educ 417, 3 credits, must be completed <i>one summer</i> during the program. It may be offered Fall, Winter, or Spring in the future.		
EDUC 420	P	1	(Elementary Student Teaching)						
MAJOR course* P		5							
MAJOR course* P		5							
			16						

* There are multiple courses that satisfy this requirement. Consult with advisor before registering. Note also that 60 credits are designated for MAJOR courses.

THREE-YEAR SCHEDULE FOR TRANSFERRING AA HOLDERS

TRANSFER ASSUMPTIONS: Direct transfer degree includes equivalencies for — ENGL 201, MATH 211, EDUC 201, CMST 200 (Speech), GEGR courses, and Cultural and Gender Diversity (e.g. CMST 340 or SOCI 320). Note that the Teacher Education program at EWU requires that a course from a specific list of Cultural and Gender Diversity courses be completed to earn a teaching certificate. Check that the DTA Cultural/Gender Diversity course has met this requirement OR complete this requirement at EWU.

Year	Fall	Notes	Credits	Winter	Notes	Credits	Spring	Notes	Credits
Junior	MATH 114**	P	5	MATH 311	P	5	EDUC 200	PC	1
	MATH 212	P	5	SPED 363		4	EDUC 303	PC	3
	CEDP 302	P	5	MAJOR course* P		5	EDUC 309	PC	3
	MAJOR course* P		5	MAJOR course* P		5	MATH 413 or 416	P	3 or 4
			20	CPLA 101	P/T	1	HIST 104* [International Studies]		5
						20			15-16
Senior	MATH 312	P	5	MATH 411	P	4	MTED 412	P	5
	MTED 390	P	5	MAJOR course* P		5	MATH 413 or 416	P	3 or 4
	MAJOR course* P		5	MAJOR course* P		5	EDUC 413	P	4
	MAJOR course* P		5	MAJOR course* P		5	MAJOR course* P		5
			20			19			16
5 th Year	EDUC 341	P	4	MTED 490	P	5	EDUC 423	P	15
	MAJOR course* P		5	MATH 420	P	4	(Elementary Student Teaching)		
	MAJOR course* P		5	EDUC 420	P	1	⇒ Summer Course Requirement: Educ 417, 3 credits, must be completed <i>one summer</i> during the program. It may be offered Fall, Winter, or Spring in the future.		
	MAJOR course* P		5	MAJOR course* P		5			
	MAJOR course* P		5	MAJOR course* P		5			
			19			20			

* There are multiple courses that satisfy this requirement. Consult with advisor before registering.

**Math 114 or equivalent (College Algebra) is available at some community colleges.

Abbreviations: C = Concurrent enrollment required P = Prerequisite course(s) required T = Placement Test required / = or

Requirements based on 2010/11 Catalog