



BAE, Mathematics/Elementary (K-8)

Major requirements (43 credits):

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 211	Structure of Elementary Mathematics I	5	Engl 100, Math 114 or 104 (3.0 or better) or MPT Score ≥ 23	Fall, winter, spring, summer
Math 212	Structure of Elementary Mathematics II	5	Math 211	Fall, winter, spring, summer
Math 311	Functions and Relations	5	Math 211 and 212 or consent	Fall, winter
Math 312	Geometry for the K-8 Teacher	5	Math 311, computer literacy clearance or consent	Fall
Math 390	Methods of Teaching Elementary School Mathematics	5	Math 211 and 212, Junior standing Educ 303	Fall, winter, spring, summer
Math 411	Development of the Number System	4	Math 311 or consent	Winter
Math 412	Advanced Methods of Teaching K-8 Mathematics	5	Math 311 & 390 or Math 493 or consent	Winter, spring
Math 420	Problem Solving for K-8 Teachers	4	Math 311 & 390 or equivalent or teaching experience	Fall, spring
Math 490	Dept. Senior Capstone: Mathematics Practicum/Elementary	5	Math 390, Math 412, & Sr. stand.	Fall, winter, spring

*This major requires completion of a minor + Professional Education requirements (102-103 credits) – See schedule on next page

Minor requirements (29 credits):

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 211	Structure of Elementary Mathematics I	5	See above	See above
Math 212	Structure of Elementary Mathematics II	5	See above	See above
Math 311	Functions and Relations	5	See above	See above
Math 390	Methods of Teaching Elementary School Math.	5	See above	See above
Math 412	Advanced Methods of Teaching K-8 Math.	5	See above	See above
Math 420	Problem Solving for K-8 Teachers	4	See above	See above

Middle Level (grades 5-9) Mathematics Endorsement (10 credits in addition to the K-8 major):**

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 413	Data Analysis for Middle Level Teachers	3	Math 212, 311 and 412	Summer
Math 416	Calculus for Middle Level Teachers	4	Math 311	Spring odd years
Educ 417	Culture of Middle School	3	Educ 200, 303, 418 or 419	Summer

** Math 490 must include middle school practicum (9th grade is allowed)

If the major or minor shown above is your chosen program, you should meet with the Department Chair to plan your first quarter of classes and to be assigned to a departmental adviser. Please contact:

Dr. Christian K. Hansen, Department Chair
Department of Mathematics
Phone (509) 359-6068.
E-Mail chansen@mail.ewu.edu

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 103, and Math 104.

Year	Fall	L	CR	Winter	L	CR	Spring	L	CR
Freshman	CPLA 101 ENGL 101 BIOL 115* HIST 104*	P/T P/T 5	1 5 5	MATH 211 ENGL 201 CMST 200 HIST 110*	P P/T P 5	5 5 4 5	MATH 212 GEOG 101* EDUC 200 EDUC 303 EDUC 418	P 	5 5 1 3 3
Sophomore	MATH 311 EDUC 201 GECR* MINOR	P P P P	5 3 5 3-5	CEDP 302 GEOG 115* PHYS 115*	P 	5 5 5	MATH 390 GECR MINOR*	P P 	5 5 3-5
Junior	MATH 312 EDUC 304 CEDP 363 GECR*	P P P	5 3 4 5	MATH 411 EDUC 310 PHED 390 MINOR*	P PC P 	4 3 3 3-5	MATH 412 CMST 340 or SOC 320* MINOR*	P P 	5 5 3-5
Senior	MATH 420 EDUC 338 EDUC 339 MINOR	P PC PC P	4 3 4 3-5	EDUC 420 MUSC 390 ART 390 MATH 490 MINOR*	P P P P 	1 3 3 5 3-5	EDUC 423 (Elem. Student Teaching)	P 	15

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

THREE-YEAR SCHEDULE FOR TRANSFERRING AA HOLDERS

	Fall	L	CR	Winter	L	CR	Spring	L	CR
Junior	MATH 212 CPLA 101 MINOR* EDUC 200 EDUC 303 EDUC 418	P P/T 	5 1 3-5 1 3 3	MATH 390 MATH 311 EDUC 304 CEDP 302	P P P P	5 5 3 5	MATH 420 EDUC 310 MINOR* MINOR*	P PC 	4 3 3-5 3-5
Senior	MATH 312 MINOR* INT'L. STDY	P 	5 3-5 4	MATH 411 MATH 412 MUSC 390 ART 390	P P P P	4 5 3 3	CEDP 363 EDUC 338 EDUC 339 MINOR*	 PC PC 	4 3 4 3-5
5th year	MATH 490 EDUC 420 PHED 390 MINOR*	P P P 	5 1 3 3-5	EDUC 423 (Elem. Student Teaching)	P 	15 			

TRANSFER ASSUMPTIONS: Direct transfer degree includes equivalencies for: ENGL 201, MATH 211 (prerequisite is MATH 114), EDUC 201, Cultural and Gender Diversity (e.g. CMST 340 or SOCI 320), and CMST 200 (Speech)

C-concurrent enrollment	D-defined choices; contact Advisor in major department	E-equivalent
I-internship	O-overload	P-prerequisite(s) required
R-recommended	S-required supporting course	PPI-prior permission of Instructor
	T-placement test required	V-variable credit /-or