

BAE, Mathematics/Secondary

Major requirements: (77 credits)

This program satisfies the Secondary Endorsement for grades 5-12

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 161	Calculus I	5	Math 106 and Engl 100	Fall, winter, spring
Math 162	Calculus II	5	Math 161	Fall, winter, spring
Math 163	Calculus III	5	Math 162	Fall, winter, spring
Math 225	Foundations of Mathematics	5	Math 161	Fall, winter, spring
Math 231	Linear Algebra	5	Math 106	Fall, winter, spring
Math 241	Calculus IV	5	Math 163	Fall, spring
Math 320	History of Mathematics	4	Math 225 or permission and Engl 201	Winter
Math 360	Continuous Functions	4	Math 225 and 163	Fall
Math 370	Survey of Geometries	5	Math 225, Computer Literacy	Winter
Math 385	Probability and an Introduction to Statistics	4	Math 163 and 225, Computer Literacy Clearance	Fall, Winter (odd years), Spring (even years)
Math 386	Applied Statistics	4	Math 380 or 385 or equivalent	Winter
Math 393	Methods of Teaching Secondary Mathematics I	3	Junior Standing and concurrent Educ 413	Spring
Math 431	Introduction to Modern Algebra I	4	Math 225 and 231	Fall
Math 432	Introduction to Modern Algebra II	4	Math 431	Winter
Math 490	Dept. Senior Capstone: Mathematics Practicum/Secondary	5	Math 393 & Sr. stand.	Fall, winter
Math 492	Problem Solving Seminar	5	Math 225 or permission and senior standing, computer literacy clearance.	Spring
Math 493	Methods of Teaching Secondary Mathematics II	3	Math 393 and Math 370 concurrent Educ 341	Fall
Math 494	Senior Seminar	2	prior or concurrent enrollment in Math 360, 386, 432 and 493	Winter

*This major requires completion of Professional Education requirements (46-47 credits) – See schedule on next page

Minor requirements: (39 credits)

This program satisfies the Secondary Endorsement for grades 5-12 (for candidates holding an endorsement in another subject area).

Course Number	Course Name	Credits	Prerequisites	Quarters Offered
Math 161	Calculus I	5	See above	See above
Math 225	Foundations of Mathematics	5	See above	See above
Math 231	Linear Algebra	5	See above	See above
Math 320	History of Mathematics	4	See above	See above
Math 370	Survey of Geometries	5	See above	See above
Math 380	Elementary Probability and Statistics	5	Math 105 or Math Proficiency Clearance, Comp. Lit. clearance	Fall, winter, spring, summer
Math 393	Methods of Teaching Secondary Mathematics I	3	See above	See above
Math 431	Introduction to Modern Algebra I	4	See above	See above
Math 493	Methods of Teaching Secondary Mathematics	3	See above	See above

- *Note: Math 490 is recommended as a Senior Capstone.*

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. Barbara L. Alvin, Department Chair
Department of Mathematics
Phone (509) 359-2203
E-Mail: balvin@ewu.edu

SCHEDULE FOR NEW FRESHMEN

ASSUMPTIONS: This assumes that the student is initially placed in college-level Computer Literacy, English Composition, and has achieved advanced placement in Mathematics (through pre-calculus). Otherwise, the student also may need to take any or all of the following: CPLA 100, Engl 100, Math 103, Math 104, Math 105 or Math 106.

Year	Fall	L	CR	Winter	L	CR	Spring	L	CR
Freshman	MATH 161 CPLA 101 ENGL 101 GECR*	P/T P/T P/T	5 1 5 5	MATH 162 ENGL 201 GECR*	P P/T	5 5 5	MATH 163 MATH 231 GECR*	P P	5 5 5
Sophomore	MATH 225 MATH 241 EDUC 201 Int. Studies	P P P	5 5 3 4-5	MATH 320 EDUC 200 EDUC 303 EDUC 419 GECR*	P PC PC PC	4 1 3 3 5	CMST 200 (speech requirement) GECR* GECR* Tutoring class (optional)		4 5 5
Junior	MATH 360 MATH 385 CEDP 302 Tutoring class (optional)	P P P	4 4 5	MATH 386 CEDP 363 MATH 370 CMST 340 or SOCI 320 (cult. div.)*	P	4 4 5 5	MATH 393 MATH 492 EDUC 413 GECR	PC P PC	3 5 4 4-5
Senior	MATH 431 MATH 493 EDUC 341 GECR*	P PC PC	4 3 4 5	MATH 432 MATH 494 EDUC 420 MATH 490	P P P P	4 2 1 5	EDUC 426 (Secondary Student Teaching)	P	15

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

THREE-YEAR SCHEDULE FOR TRANSFERRING AA HOLDERS

Year	Fall	L	CR	Winter	L	CR	Spring	L	CR
1st year	MATH 225 MATH 241 CPLA 101	P P P/T	5 5 1	MATH 231 MATH 320 EDUC 200 EDUC 303 EDUC 419	P P PC PC PC	5 4 1 3 3	Intern. Studies CEDP 302 CEDP 363 Tutoring class (optional)		4-5 5 4
2nd year	MATH 360 MATH 385 MATH 431	P P P	4 4 4	MATH 386 MATH 432 MATH 370	P P P	4 4 5	MATH 492 EDUC 413 MATH 393	P PC PC	5 4 3
3rd year	MATH 493 EDUC 341 Tutoring class (optional)	P P	3 4	MATH 494 MATH 490 EDUC 420	P P P	2 5 1	EDUC 426 (Secondary Student Teaching)	P	15

TRANSFER ASSUMPTIONS: Direct transfer AA degree includes equivalencies for: MATH 161, 162, and 163, ENG 201, EDUC 201, 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	PPI-prior permission of Instructor
R-recommended	S-required supporting course	T-placement test required
		V-variable credit /-or