SECONDARY MATHEMATICS MINOR

Prerequisite Grade Policy: Students must have earned a grade ≥C or better in any course that is to be used to satisfy a prerequisite requirement for a subsequent mathematics course offered by the Eastern Washington University Department of Mathematics.

Grade Requirements: Students must receive a grade ≥C in each course used to satisfy the requirements of an undergraduate major or minor in mathematics.

Required MATH Courses		
MATH/HONS 161	CALCULUS I (with a grade ≥C satisfies the university proficiencies in math)	5
MATH 162	CALCULUS II	5
MATH 225	FOUNDATIONS OF MATHEMATICS	5
or MATH 301	DISCRETE MATHEMATICS	
or MATH 411	DISCRETE MATHEMATICS FOR K-8 TEACHERS	
MATH 370	SURVEY OF GEOMETRIES	5
or MATH 312	GEOMETRY FOR THE K-8 TEACHER	
or MATH 470	FOUNDATIONS OF GEOMETRY	
MATH 385	PROBABILITY AND STATISTICAL INFERENCE I	5
or MATH 380	ELEMENTARY PROBABILITY AND STATISTICS	
or MATH 417	ADVANCED MATHEMATICS FOR MIDDLE SCHOOL TEACHERS	
Required MTED Courses		
MTED 425	ASSESSMENT IN THE MATHEMATICS CLASSROOM	3
MTED 476	MATHEMATICAL PROGRESSIONS	4
MTED 477	MATHEMATICAL DISCUSSIONS	4
Total Credits		**36**

Students who earn a Secondary Mathematics Minor from EWU should be able to:

- apply of pedagogical content knowledge for secondary mathematics in planning and teaching;
- critically read, analyze, evaluate, transform, and implement mathematics education literature;
- demonstrate the mathematical habits of mind of a community of mathematicians;
- demonstrate understanding of mathematical learning progressions and connections within secondary mathematics;
- describe and explain mathematical concepts and procedures addressed in high school and early college and connections among them;
- display a sensitivity and ability to respond productively to the mathematical thinking of secondary students;
- employ habits of mind to continue improving teaching practices that support mathematics learning;
- reason mathematically to develop proofs that communicate the reasoning clearly.