



Mathematics: Middle Level Education B.A. Major with STEM Teaching Program Minor (Middle Level Math 4-9th)

This major partially satisfies the criteria for a teaching endorsement in Middle Level Mathematics (4-9), qualifying students to teach mathematics at the middle school or junior high levels. Students are encouraged to seek a second major or minor in an approved area. The coursework provides experiences in mathematics content and pedagogy.

This major requires completion of all Teacher Certification and Professional Education Program requirements. The STEM Teaching Program Minor (44 credits) serves as an alternative to the Professional Education Program. Students must be admitted to an approved teacher preparation program and have successfully completed Math 130 and Math 154 prior to acceptance into this major. Students who successfully complete the Mathematics: Middle Level Education, BA and an approved teacher preparation program are eligible to apply for Washington State teacher certification. Teacher certification candidates must receive a C grade or higher in all major and minor courses, have a GPA of at least 3.0 for either the last 45 graded quarter credits or overall CWU/transfer cumulative, and meet all Washington State teacher certification requirements. See the middle level mathematics and STEM Teaching advisors as soon as possible to develop a course of study.

Pre-Requisites

- MATH 130/153/154 completed Major/Minor applications completed Entry to major survey completed

Required Courses	Credits	Plan	Completed
Math: Middle Level Education B.A. (Major)			
Math 170 Intuitive Calculus	5		
Math 206 Mathematics for Teachers: Number and Operations OR Math 164 Foundations of Arithmetic	4 5		
Math 226 Mathematics for Teachers: Geometry and Measurement	4		
Math 232 Discrete Modeling for Middle-level Teachers	4		
Math 306 Middle-level Mathematics Standards Review	2		
Math 311 Statistical Concepts and Methods	5		
Math 316 Mathematics for Teachers: Proportional Reasoning and Algebra	4		
Math 405 Probability and Statistics for Teachers	4		
Math 406 Algebra for Teachers	4		
Math 456 Geometry for Teachers	4		
Math major subset:	50-51		
STEM Teaching Program (Minor)			
<i>Pre-admission courses (must complete before full admission)</i>			
STP 301 Inquiry Approaches to Teaching	2		
STP 302 Inquiry Based Lesson Design			
OR STP 302A Inquiry Based Teaching & Lesson Design (4)	2		
<i>Fully Admitted Courses (must be fully admitted to Teacher Certification)</i>			
STP 303 Knowing and Learning (pre-req to all following classes)	4		
STP 304 Classroom Interactions 1	4		
STP 305 Classroom Interactions 2	4		
STP 306 Project-Based Instruction	3		
STP 307B Functions and Modeling	3		
STP 308 Historical Perspectives in STEM Education	3		
STP 309 Research Methods	3		
EFC 480 – Student Teaching (Must meet all Student Teaching Requirements)	16		
Minor subset:	44		
Total Credits:	94-95		



EXAMPLE 4-Year Plan – Meet with your major and STP advisor to individualize your plan before registering for classes.

	Fall	Winter	Spring
Freshman Year	Gen Ed 14-16 ^Math 153 Total 14-16	Gen Ed 14-16 ^Math 154 Total 14-16	Gen Ed 14-16 ^Math 130 Total 14-16
Sophomore Year	Gen Ed 10-12 Math 206 4 Total 14-16	Gen Ed 4-6 Math 226 4 Math 170 5 STP 301 2 Total 15-17	Gen Ed 4-6 Math 316 4 Minor 5 STP 302 2 Total 15-17
Junior Year	Math 232 4 Minor 5-8 STP 303 4 Total 13-16	Math 311 5 Minor 5 STP 304 4 Total 17	Math 456 4 Minor 5-10 STP 307A 3 Total 12-17
Senior Year	Minor 5-7 Math 406 4 STP 305 4 STP 308 3 Total 15-18	Minor/Elective 4-6 Math 405 4 Math 306 2 STP 306 3 STP 309 3 Total 12-18	EFC 480 16 Total 16

^Recommended Basic/Breadth classes

Minors to Consider: Middle-Level Science; K-8 Science (not endorsable); Psychology;

Student Name: _____ ID#: _____

Email: _____

Signature _____ Date: _____

STEM Teaching Minor Advisor Signature: _____ Date: _____

Major Advisor Signature: _____ Date: _____