



Mathematics B.A. Major with STEM Teaching Program Minor (Math 5-12th)

The Mathematics: Secondary Education BA, Mathematics (Small Plan) BS, or Applied Mathematics BS Majors partially satisfy the criteria for teaching endorsement in Mathematics (5-12), qualifying students to teach mathematics at the middle, junior or high school levels. Students who successfully complete one of these three majors with the listed elective restrictions and the STEM Teaching Program Minor (an alternative to the Professional Education Program) are eligible to apply for Washington State teacher certification. Teacher certification candidates must receive a C grade or higher in all major and STEM Teaching Program 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 secondary mathematics and STEM Teaching advisors as soon as possible to develop a course of study.

Pre-Requisites

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

Required Courses	Credits	Plan	Completed
Math B.A. (Major)			
Math 172, 173 Calculus I/II	10		
Math 260 Sets and Logic	5		
Math 265 Linear Algebra I	4		
Math 272, 273 Multivariable Calculus I/II	10		
Math 314 Probability and Statistics	5		
Math 332 Discrete Models	4		
Math 355, 455 College Geometry I/II	7		
Math 360, 361 Algebraic Structures I/II	6		
Math 376 Differential Equations I	3		
Math 410A Advanced Statistical Methods I	3		
Math 430 Introduction to Theory of Numbers	3		
Math major subset:	60		
STEM Teaching Program (Minor)			
<i>Pre-admission courses (must complete before full admission)</i>			
STP 301 Inquiry Approaches to Teaching	OR STP 302A Inquiry Based Teaching & Lesson Design (4)	2	
STP 302 Inquiry Based Lesson Design		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:	104		



EXAMPLE 4-Year Plan – Meet with your major and STP advisor(s) 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 10 ^Math 130 Math 172 5 Total 15
Sophomore Year	Gen Ed 10-12 Math 173 5 Total 15-17	Gen Ed 4-8 Math 272 5 STP 301 2 Total 14-16	Gen Ed 4-6 Math 265 4 Math 273 5 STP 302 2 Total 15-16
Junior Year	Math 260 5 Math 314 5 Math 376 3 STP 303 4 Total 17	Math 355 4 Math 410A 3 STP 304 4 Total 11	Math 455 3 Math 430 3 STP 305 4 Total 10
Senior Year	Math 332 4 Math 360 3 STP 307B 3 STP 306 3 Total 13	Math 361 3 STP 308 3 STP 309 3 # Total 9	EFC 480 16 Total 16

^Recommended Basic and Breadth

* Junior year averages more than 12 credits for financial aid

Extra field experience possible for winter of senior year (possible year-long experience in classroom)

Student Name: _____ ID#: _____

Email: _____ Qtr complete MATH 172: _____

Signature: _____ Date: _____

STEM Teaching Minor Advisor Signature: _____ Date: _____

Major Advisor Signature: _____ Date: _____