WVUteach

Mathematics 5-Adult

Teaching changes lives. It is a rewarding profession that makes a difference. Well-prepared science and mathematics teachers are some of the most sought after in our state and nation's middle and high schools and are vital to making a positive impact for future generations.

The Secondary STEM Education teacher preparation pathway at WVU is designed to give undergraduate students the opportunity to explore the profession of teaching in science and/or mathematics, improve their practice as educators, and earn a secondary (middle and/or high school) teaching certification—all while pursuing a 4-year degree in a STEM field. This gives graduates the flexibility to pursue a career in middle or high school teaching, or to pursue non-teaching jobs or graduate programs in their field.

Students in the Secondary STEM Education pathway as part of their STEM degree will take coursework in education and field-based experiences in school classrooms, some of which helps satisfy General Education Foundations (GEF) requirements and other degree requirements. Students will continue to take the courses and other requirements as part of their STEM degree, though with some slight variations.

Advisors in the STEM degrees will be able to support students who are interested in the Secondary STEM Education pathway. Students should also contact the WVU School of Education in the College of Applied Human Sciences for more information on the pathway and its requirements.

Students seeking Mathematics 5-Adult teaching certification complete the Mathematics B.A. or B.S. major requirements and the following courses (36 hours). The Secondary STEM Education curriculum can be completed within the 120 hours required for graduation with a B.A. or B.S. in Mathematics:

WVUTEACH: MATHEMATICS 5-ADULT

Code	Title	Hours
ARSC 120	Inquiry Approaches to Teaching	1
ARSC 220	Inquiry-Based Lesson Design	1
UTCH 221	Knowing and Learning in Mathematics and Science (GEF 4)	3
UTCH 322	Classroom Interactions in Math and Science	3
UTCH 420	Project-Based Instruction in Mathematics and Science	3
UTCH 430	Apprentice Teaching in Math and Science	10
MATH 318	Perspectives on Mathematics and Science (GEF 5) *	3
MATH 376	Foundations, Functions and Regression Models *	3
PHYS 376L	Research Methods Laboratory	3
C&I 434	Teaching Mathematics: Secondary School	3
MATH 338	Geometry for Teachers	3
Total Hours		36

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MATH 318 and MATH 376 count within the math major requirements.

ADDITIONAL COURSEWORK FOR NON-MATHEMATICS MAJORS

Code	Title	Hours
MATH 155	Calculus 1	4
MATH 156	Calculus 2	4
MATH 251	Multivariable Calculus	4
MATH 261	Elementary Differential Equations	4
STAT 215	Introduction to Probability and Statistics	3
MATH 303	Introduction to the Concepts of Mathematics	3
Select one of the following:		3
MATH 343	Introduction to Linear Algebra	
MATH 441	Applied Linear Algebra	
Select one of the following:		3
MATH 341	Introduction to Algebraic Structures	
MATH 378	Discrete Mathematics	
MATH 451	Introduction to Real Analysis 1	

MATH 456	Complex Variables	
Total Hours		28