

SECONDARY SCHOOL MATHEMATICS, MINOR

The high school mathematics curriculum covers a wide range of content including algebra, geometry, trigonometry, calculus, and statistics.

Secondary school mathematics minors not only learn these topics at a fundamental level, but they also learn how to effectively communicate these concepts to students at a grade appropriate level. Most students completing the secondary school mathematics minor go on to get their permanent teaching certification and work as high school math teachers. Additionally, some students choose to work with math tutoring centers, math summer camps, accelerated math programs, and/or science museums.

To access Minor Requirements, please view the Curriculum Guide tab.

Related Links

Middle Level Education: Mathematics Program Page (<https://www.sru.edu/academics/majors-and-minors/middle-level-education-mathematics/>)

Professional Licensure/Certification Page (<https://www.sru.edu/students/student-consumer-information/professional-licensures/>)

Curriculum Guide

GPA Requirement

2.0 or higher Minor GPA

Minor Requirements

- A minimum of 6 credit hours must be upper division (courses numbered 300 and above).
- At least 9 credit hours of MATH/STAT courses used for the minor must be taken at Slippery Rock University.
- Middle Level Education majors (in the Department of Secondary Education/Foundations of Education) CANNOT apply SEFE 200 to the Secondary School Mathematics Minor.
- A minor shall be no fewer than 18 credits.
- BS-Mathematics majors must choose at least 15 credits distinct from those being counted toward major.
- Students minoring in both Mathematics and Second School Mathematics must complete 9 credits in each minor that are not applied to the other minor.

Code	Title	Hours
Required Mathematics Courses		
MATH 235	Foundations of Mathematical Proof	3
MATH 304	Geometric Structures	3
MATH 320	Theory of Numbers	3
SPED 121	Overview of Special Education	3
SEFE 338	Standards-Based Instruction & Assessment in the Inclusionary Classroom	3
Additional Courses		
Select three of the following:		9
MATH 230	Calculus II ¹	
MATH 231	Calculus III ¹	
STAT 124	Introduction to Survey Methods	

STAT 252	Introduction to Statistical Modeling
STAT 318	Statistical Study Design
SEFE 200	Introduction to Education, Teaching Methods and Field
SEFE 230	Production and Utilization of Instructional Technology
SEFE 245	Middle Level Learning Theory
SEFE 250	Pre, Early, & Adolescent Development
SEFE 300	Middle Level Cognitive Development
SEFE 311	Teaching of Mathematics in the Middle School
SEFE 326	ELL Strategies and Practice
SEFE 342	Educational Psychology for Diverse Learners
SEFE 370	Educational Measurements, Assessment and Evaluation
SEFE 380	History and Philosophy of Education
PHIL 313	Symbolic Logic
PHIL 351	Philosophy of Natural Science

Total Hours **24**

¹ Course may not be used by Mathematics majors

* Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*

PASSHE - Pennsylvania State System of Higher Education Institutions

Minor in Secondary Mathematics (52G)

This program is effective as of Summer 2022

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