

SECONDARY EDUCATION MATH/SCIENCE WITH STEM CONCENTRATION

MASTER OF EDUCATION

DEPARTMENT OF SECONDARY EDUCATION /FOUNDATIONS OF EDUCATION

COLLEGE OF EDUCATION



DELIVERY METHOD

Basic Concentration: onsite and online
Advanced Concentration: 100% online

START TERMS

Fall, Winter, Spring, or Summer

COMPLETION TIME

Programs can be completed in a calendar year if a student begins in the summer

NUMBER OF CREDITS

36 credits



SlipperyRock
University

A member of Pennsylvania's State System
of Higher Education

EXPERIENCE THE DIFFERENCE

www.sru.edu/graduate

PROGRAM HIGHLIGHTS

Impact the future and explore the possibilities of teaching by earning a Master of Education in Secondary Education. SRU's M.Ed. in Secondary Education has two concentrations; a basic concentration and an advanced concentration. The basic concentration is for students seeking certification. The advanced concentration is for certified teachers.

SRU's master's degree in Secondary Education offers:

- Flexibility to fit your busy schedule. The basic concentration offers both onsite and online classes, and the advanced concentration can be completed exclusively online
- A 36-credit hour program that can be completed in one calendar year
- Leadership skills geared to advancing your career to the next level
- Specialization in mathematics and science

BASIC CONCENTRATION

The basic teaching concentration in Secondary Education Teaching – Math/Science is a degree designed for individuals who possess a baccalaureate degree and appropriate coursework in mathematics or one of the secondary science subject areas of biology, chemistry, geology or physics. Successful completion of the program will lead to a master's degree and can lead to state certification. Students can complete the 36-semester hour program in one calendar year of full-time study, beginning with the summer pre-session and ending with student teaching in the fall or spring. However, students may begin any term.

ADVANCED STEM CONCENTRATION (ONLINE)

The advanced teaching concentration in Secondary Education Teaching Math/Science is a Master of Education degree for individuals who already possess teacher certification in secondary mathematics or one of the secondary science subject areas. The program integrates a concentration in Science, Technology, Engineering, and Mathematics (STEM) courses. In addition to core requirements, these certified students will concentrate on individual professional development by electing 12 semester hours of course-work from the areas of instructional design, mathematics/science education, technology, special education, or counseling.

ADMISSION REQUIREMENTS

Applicants must submit the following materials along with a completed online graduate application and a non-refundable application fee:

Basic Concentration:

- All applicants must have a bachelor's degree with appropriate course work in mathematics or one of the science disciplines with an overall GPA of 2.80 or higher from an accredited institution of higher education to enter and a 3.0 GPA to exit the graduate program
- Official undergraduate degree transcript(s) and any graduate transcripts
- Resume

Advanced Concentration:

- All applicants must have a bachelor's degree with an overall GPA of 3.00 or higher from an accredited institution of higher education
- Official undergraduate degree transcript(s) and any graduate transcripts
- Copy of teacher certification
- Resume

BASIC CONCENTRATION UNDERGRADUATE COMPETENCIES

Students should provide evidence of meeting outcomes in special needs instruction (Slippery Rock University's SEFE 338: Standard-Based Instruction & Assessment in the Inclusionary Classroom and SEFE 342: Educational Psychology for Diverse Learners are essential to meet this requirement).

Students in the basic concentration who meet admission requirements but who have more than three undergraduate deficiencies, may be offered conditional admission.

BASIC CONCENTRATION - PROFESSIONAL LICENSURE CERTIFICATION

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

TUITION & ASSISTANTSHIPS

Information on current tuition and assistantships can be found on the main Graduate Admissions website at www.sru.edu/graduate. Financial Aid brochures are available through the Financial Aid Office www.sru.edu/FinAid or the Office of Graduate Admissions.

BASIC CONCENTRATION CURRICULUM GUIDE - TEACHING MATH/SCIENCE WITH STEM LEADING TO CERTIFICATION (M.ED.)

Pedagogy			
SEFE 607	The Theories and Teaching of English Language Learners	3	
SEFE 676	Teaching Integrated Science and Mathematics	3	
SEFE 677	Directed Field Experience in Secondary Schools	3	
Subtotal		9	
Technology			
SEFE 647	Technology-Based Inquiry in Middle & Secondary Schools	3	
Subtotal		3	
Educational Measurement			
SEFE 671	Measurement, Testing, and Assessment	3	
Subtotal		3	
Education Foundations - Select a min of one of the following:		3	
SEFE 604	Philosophical Foundations of Education		
SEFE 606	Social Foundations of Education		
SEFE 609	History of Western Education		
SEFE 680	Crucial Issues in Education		
Subtotal		3	
Research and Statistics			
SEFE 602	Univariate Statistical Methods	3	
Select one of the following:		3	
SEFE 608	Research Methods for Teacher		
SEFE 696	Elements of Qualitative Educational Research		
SEFE 699	Elements of Quantitative Educational Research		
Subtotal		6	
Special Education - Select one of the following:		3	
SEFE 679	Psychology of Learning and Instruction for Diverse Learners		
SPED Course at 600, 700, or 800 level			
Subtotal		3	
Supervised Student Teaching			
SEFE 701	Seminar and Supervised Teaching in the Secondary School	9	
Subtotal		9	
Total Hours		36	

**If a student would like to substitute/transfer another course, the course must meet the Chapter 49 Accommodations and Adaptations Standards as covered in SPED 601.

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

Major Code: 9255

ADVANCED CONCENTRATION CURRICULUM GUIDE - TEACHING MATH/SCIENCE WITH STEM

Pedagogy			
SEFE 630	Advanced Pedagogy for Teacher	3	
SEFE 647	Technology-Based Inquiry in Middle & Secondary Schools	3	
SEFE 678	Practicum in Secondary Mathematics/Science	3	
Educational Measurement			
SEFE 671	Measurement, Testing, and Assessment	3	
Educational Foundations			
SEFE 680	Crucial Issues in Education	3	
Research and Statistics			
SEFE 602	Univariate Statistical Methods 3		
Select six credits of the following:		6	
SEFE 608	Research Methods for Teacher		
SEFE 696	Elements of Qualitative Educational Research		
SEFE 699	Elements of Quantitative Educational Research		
Electives - Select 12 credits of the following:		12	
SEFE 607	The Theories and Teaching of English Language Learners		
SEFE 650	Strategic Leadership		
SEFE 652	Organizational Leadership		
SPED 601	Advanced Studies in Learning Disabilities		
SPED 625	Instructional Strategies for Learning and Behavioral Problems		
Total Hours		36	

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CLEARANCES

Clearances are due no later than one (1) week prior to deadline for course registration for each program's practicum/field experience-----no student will be permitted to register for their program's practicum and take part in practicum/field experiences without clearances on file at SRU. Please refer to the graduate website at www.sru.edu/graduate and select "Requirements by Program" to learn more.

FOR QUESTIONS ABOUT ACADEMICS AND COURSE SCHEDULING:

Dr. Edwin Christmann
 Graduate Coordinator
 001 McKay Educational Building
 724.738.2319
edwin.christmann@sru.edu

The educational policies and procedures are continually being reviewed and changed in keeping with the mission of the university. Consequently, this document cannot be considered binding and is intended to be used as only an informational guide. Students are responsible for being informed of official policies and regulations for meeting all appropriate requirements.

FOR QUESTIONS ABOUT ADMISSIONS:

Office of Graduate Admissions
 104 North Hall, Welcome Center
 Slippery Rock, PA 16057
www.sru.edu/graduate
 724.738.2051 or 877.SRU.GRAD
graduate.admissions@sru.edu