

SECONDARY MATH/SCIENCE WITH STEM CONCENTRATION

MASTER OF EDUCATION

DEPARTMENT OF CURRICULUM, INSTRUCTION, AND EDUCATIONAL LEADERSHIP

COLLEGE OF EDUCATION

DELIVERY METHOD

Basic and Advanced Concentrations
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



According to the
Bureau of Labor Statistics,
107,420 openings for
middle and high school teachers
are projected each year,
on average, over the
next decade.

Slippery Rock
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: basic concentration and 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
- 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.

Often students who apply for SRU's basic track Master of Education Degrees are those interested in changing careers. The Pennsylvania Department of Education (PDE) requires that those who teach English/Language Arts, Mathematics, Sciences, or Social Studies, are highly qualified in their content areas. At SRU there are multiple pathways to prove that you are highly qualified. Once accepted into the program, transcripts from your previous institution will be analyzed for courses in the subject area you will be learning to teach. If you are missing any of the courses needed in that content area, you will be notified of which courses you would need to take to meet the PDE requirements. Alternatively, you can show that you are highly qualified by earning a passing score on the PA Content Knowledge Certification Exam for your content area. This test-out option will also be discussed with you, upon acceptance into the program.

ADVANCED STEM CONCENTRATION (ONLINE)

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.

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

Pedagogy		
SEFE 576	Teaching Integrated Science and Mathematics	3
SEFE 607	The Theories and Teaching of English Language Learners	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.



SCAN QR code
for more information

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

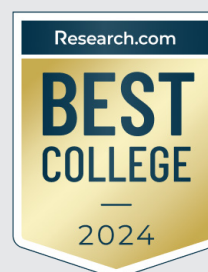
CLEARANCES

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.

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.

AWARD



FOR QUESTIONS ABOUT ACADEMICS AND COURSE SCHEDULING:

Dr. Jason Hilton
Graduate Coordinator
008C McKay Educational Building
724.738.2307
jason.hilton@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