

Mathematics Education

Bachelor of Science in Education (BSED)

Mathematics Education

The Bachelor of Science in Education – Mathematics (9 – 12) prepares our majors for a career in education with a Missouri mathematics (9 – 12) teaching certificate when they successfully complete our program.



This program offers a solid foundation in calculus, algebra, geometry, and statistics. A focus on meaningful applications of the mathematics is a strong part of our program.

Secondary mathematics education students will...

- Interact with highly qualified, award winning mathematics education faculty in a technology rich environment.
- Be prepared for professional examinations for entrance to and exit from the College of Education.
- Have opportunities to attend conferences as participants or presenters.
- Be encouraged to join Math Club or Student Association of Mathematics Educators

Career Planning

Career preparation is part of the mission of Southeast. 100% of programs offer our students an internship, study-abroad program, clinical opportunity, student teaching or research internship.

The Office of Career Services in Academic Hall 057 can provide students with professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

Demonstrated Career Proficiency is a Requirement of all Southeast Students		
CL001	First Semester	Students connect academic career planning by completing an online career assessment
CL002	Second Semester	Students learn more about resources available to enhance academic and career planning
CL003	Junior Year	Students learn about continued career planning, job search strategies, and networking
CL004	Senior Year	Students learn about resume development, professional communication, interviewing, and transitioning to the first job from college

Internship and Employment Opportunities of Recent Graduates

- Junior high and high schools, public and private, throughout the state.

Admission Requirements

- 42 course hours completed
- 2.75 cumulative GPA
- Missouri Educator Profile (MEP) results on file with the Office of the Associate Dean of the College of Education
- Score of 220 or higher on all sections of the Missouri General Education Assessment (MoGEA)
- The following course requirements met
 - A grade of C or above in PY222 Development of the Adolescent
 - A grade of B or above in ED280 Introduction to Education as a Profession

Additional Information

The state of Missouri has high expectations for future educators. Students matriculating into education programs must meet the following standards to be recommended for licensure following degree completion.

Students graduating spring 2017 or later must maintain a 3.0 GPA in both content and pedagogy courses. In addition students must pass the Missouri Content Assessment Exam and the Missouri Pre-Service Teacher Assessment for recommendation for licensure. Students must also fulfill other assessments such as the Missouri Educator Profile and be cleared through a FBI background check.

Special Options with Secondary Education

Southeast offers a Master of Arts in Secondary Education.

To learn more
Office of Admissions
(573) 651-2590
admissions@semo.edu
www.semo.edu

To explore
the College
of Science, Technology and
Agriculture online, visit
<http://www.semo.edu/costa/>

For advising
Center for Academic Advising - North
(573) 651-5090
www.semo.edu/advising
advisingnorth@semo.edu

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This is a guide based on the 2017-2018 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

CURRICULUM CHECKLIST

(Curriculum pending state approval)

Education Courses – 49 Hours Required

A grade of 'C' or better is required in education courses, with the exception of ED280 which requires a grade of 'B' or better.

- ___ **ED280** Introduction to Education as a Profession (3)
- ___ EF400 Seminar in Educational Issues (3)
- ___ EX390 Psychology and Education of the Exceptional Child (3)
- ___ **PY222** Development of the Adolescent (3)
- ___ SE307 Content Literacy Methods for Middle and High School (3)
- ___ SE311 Techniques of Teaching High School Mathematics (3)
- ___ SE350 Pedagogy 1: Principles of Effective Teaching in Middle & Secondary (3)
- ___ SE355 Field Experience 2 (3)
- ___ SE365 Pedagogy 2: Principles of Effective Teaching in Middle & Secondary (4)
- ___ SE380 Advance Field Experience (3)
- ___ SE385 Pedagogy 3: Principles of Effective Teaching in Middle & Secondary (3)
- ___ SE390 Instructional Interventions for Middle and High School Students with Special Literacy Needs (3)
- ___ SE465 Middle and Secondary Student Teaching Field Experience (12)

Mathematics Education Courses – 43 Hours Required – No minor required

- ___ MA003 Major Math Field Achievement Test (0)
- ___ MA138 Discrete Mathematics I (3)
- ___ MA140 Analytic Geometry & Calculus I (5)
- ___ MA145 Analytic Geometry & Calculus II (4)
- ___ MA223 Elementary Probability & Statistics (3)
OR
- ___ MA523 Probability & Statistics I (3)
- ___ MA244 Analytic Geometry & Calculus III (4)
- ___ MA250 Foundations of Mathematics (3)
- ___ MA334 Computer Programming (3)
- ___ MA340 Concepts of Geometry (3)
- ___ MA345 Linear Algebra (3)
- ___ MA443 Elementary Number Theory (3)
- ___ MA445 Modern Algebra (3)
- ___ MA449 Mathematical Problem Solving (3)
- ___ UI438 Nature & Growth of Mathematical Thought (3)

University Studies Requirements (not already listed above):

UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Written Expression, Oral Expression, Literary Expression, Living Systems, Physical Systems, Development of a Major Civilization, Economic Systems, Political Systems, and Social Systems

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	3	MA138	3
	EN100	3	MA145	4
	MA140	5	Living Systems	3
	Develop of a Major Civ	3	Oral Expression	3
	Social Systems	3	Written Expression	3
	Total	17	Total	16
Milestone: Maintain 2.75 cumulative GPA, Complete MEP				

SECOND YEAR	MA244	4	ED280	3
	MA250	3	MA345	3
	PY222	3	MA443	3
	Literary Expression	3	Artistic Expression	3
	Political Systems	3	Economic Systems	3
			Physical Systems	3
Total	16	Total	18	
Milestone: Maintain 2.75 cumulative GPA, Passing score MoGEA				

THIRD YEAR	EX390	3	MA334	3
	MA223/MA523	3	SE307	3
	MA340	3	SE355	3
	MA445	3	SE365	4
	SE350	3		
	UI438	3		
Total	18	Total	13	

FOURTH YEAR	MA003	0	EF400	1
	MA449	3	SE465	12
	SE311	3		
	SE380	3		
	SE385	3		
	SE390	3		
Total	15	Total	13	
Milestone: Passing score Mo Content Exam, MoPTA, 2.75 cumulative GPA, 3.0 GPA in Education courses				

A "Milestone" signifies a significant stage for a student in the completion of a degree.

Degree requirements for all students: a minimum of 120 credit hours, completion of University Studies program, completion of 39 senior division hours (300-599), career proficiencies (CL001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the senior level. Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.