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. In fact, more than 90% of Southeast students participate in internships, clinical opportunities, student teaching, research assistantships, and study abroad.

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

<table>
<thead>
<tr>
<th>Demonstrated Career Proficiency is a Requirement of all Southeast Students</th>
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<tbody>
<tr>
<td><strong>CL001/CL002</strong> First Semester</td>
</tr>
<tr>
<td><strong>CL003</strong> Junior Year</td>
</tr>
<tr>
<td><strong>CL004</strong> Senior Year</td>
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</tbody>
</table>

Internship and Employment Opportunities of Recent Graduates

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

Admission Requirements

Students graduating prior to spring 2017

- Cumulative 2.50 GPA
- Passage of CBASE or Missouri General Education Assessment (MoGEA)

Students graduating spring 2017 or later

- Cumulative 2.75 GPA
- Pass all sections of the Missouri General Education Assessment

Current Pass Scores for MoGEA

- English - 186
- Writing - 167
- Math - 183
- Science - 183
- Social Studies – 183

All students must have:

- 42 hours of course credits
- Missouri Educator Profile (MEP) results on file
- Passage of all sections of the Missouri General Education Assessment (MoGEA) test.
- ED 280 Introduction to Teaching as a Profession with a grade of “B” or above
- PY222 Development of the Adolescent

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.
This is a guide based on the 2015-2016 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

**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)
- **EN100** 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)
- **SE355** Field Experience 2 (3)
- **SE365** Pedagogy 2: Principles of Effective Teaching in Middle & Secondary (4)
- **SE380** Advance Field Experience (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 I (3)
- **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)
- **UA439** Nature & Growth of Mathematical Thought (3)

**University Studies Requirements (not already listed above):**

- UI100 First Year Seminar, EN100 English Composition, Written Expression, Artistic Expression, Literary Expression, Behavioral Systems, Living Systems, Physical Systems, Development of a Major Civilization, Economical Systems, Political Systems, and Social Systems, IU/UI3xx

**Milestone: Passing score on Mo Content Exam, MoPTA, 2.75 cumulative GPA, 3.0 GPA in Education courses**

### SAMPLE FOUR-YEAR PLAN

<table>
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<tr>
<th>Course #</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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<td>Political Systems</td>
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</table>

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, 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 DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.