

Master of Arts in Teaching (MAT)

The Master of Arts in Teaching (MAT) - STEM Program is an intensive 36 credit hour master's (with two additional pre-education courses) and initial teacher licensure program that prepares future educators to enter the classroom ready to create innovative and rigorous learning experiences for today's students. The Master of Arts in Teaching (MAT) is designed for individuals who do not have prior teaching experience or an undergraduate degree in education. The MAT at Southeast Missouri State University is approved by the Missouri Department of Elementary and Secondary Education (DESE) for licensure in the STEM areas: Middle School Math or Science; High School Biology, Chemistry, or Physics. This program is completely online and can meet the needs of those who are not able to relocate or must work full time.



Southeast Missouri State University is consistently recognized for academic excellence by the U.S. News & World Report Best Colleges Rankings for institutions in the Midwest and is fully accredited by the North Central Association of Colleges and Schools and the National Council for the Accreditation of Teacher Education.

Graduate education at Southeast is guaranteed quality at an affordable price. Southeast offers competitive tuition rates for graduate students, compared to other online graduate programs.

Becoming Career Ready...

/Students participate in courses that are enhanced by incorporating practical experiences within class studies. Activities include the curriculum and instructional material development, technology integration, classroom management plan development, differentiating instruction, assessment planning, building effective relationships with students, families, and educational partners. 100% of Southeast programs offer real-world experience. MAT STEM students earn this experience through field experience and student teaching.

/Students receive instruction from faculty members who have a variety of practical experience and are sincerely interested in the personal, professional and career development of candidates. Faculty act as mentors and advisors and assist graduates with career planning as they seek to obtain a teaching position that best meets their needs, talents and experience.

/The path to a successful career starts with you! You can maximize your career development by working closely with Career Services and Southeast faculty – they are here to help you connect your passions, interests and skills to jobs and opportunities in the field. Career Services provides professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities and more.

/This program could lead to licensure or certification. However, Southeast's program either does not meet, or we cannot determine if it meets, the licensure or certification requirement in all states. Please consult our State Authorization page, Licensure tab, to determine information specific to your state: <https://semo.edu/online/student-resources/stateauth.html>.

Career Planning

Graduates of this program may find new teaching opportunities with the increased expertise and certification. STEM education is a high demand field, with teachers certified in Mathematics and Science finding jobs easily. The Bureau of Labor Statistics reported that employment opportunities for middle school and high school teachers are expected to grow by 4%. Additionally, teachers in STEM fields are in greater demand than other fields..

Full Admission: Mathematics or Science Certification Grades 9-12:

- BA/BS in the content area or closely related field that meets the required content competencies for the license.
- 2.75 Cumulative Undergraduate GPA
- 3.0 Undergraduate Content GPA
- Pre-Requisite Courses:
 - PY 222 Adolescent Development (or equivalent course)
 - EX 390 Psychology of the Exceptional Child or EX 635 Psychology of the Exceptional Child (or equivalent course)
- Successful passage of Missouri Content Assessment (MoCA) in the appropriate content area as defined by the Missouri Department of Middle and Secondary Education.

Full Admission: Mathematics or Science Certification Grades 5-9:

- BA/BS in the content area or 24 credit hours of completed courses that meet the required content competencies for the license.
 - Math – 24 hours of math must include courses in College Algebra, Geometry, and Applied or Pre-Calculus.
 - Science – 24 hours of science with a minimum of 8 hours of physical and 8 hours of life science courses.
- 2.75 Cumulative Undergraduate GPA
- 3.0 Undergraduate Content GPA
- Pre-Requisite Courses:
 - PY 222 Adolescent Development (or equivalent course)
 - EX 390 Psychology of the Exceptional Child or EX 635 Psychology of the Exceptional Child (or equivalent course)
- Successful passage of Missouri Content Assessment (MoCA) in the appropriate content area as defined by the Missouri Department of Middle and Secondary Education.

Note: Probationary admission can be granted if PY222 and EX390 are taken during the program as co-requisites.

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This is a guide based on the 2021-2022 Graduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on factors such as dual enrollment, remediation, and summer enrollment. Students meet with an academic advisor each semester and use Degree Works to monitor their progress.

Curriculum Checklist

STEM Education – 33 hours required – 3.0 GPA Required Required Courses:

- ___ SE602 Effective Literacy Instruction at the Middle and Secondary Levels (3)
 - ___ SE612 Responsive Literacy for Middle and High School Students with Academic Challenges (3)
 - ___ SE650 Introduction to Teaching Methods in Middle and Secondary Schools (3)
 - ___ SE651 Introductory Practicum 1 in Middle and Secondary Schools (3)
 - ___ SE654 Advanced Methods of Teaching in Middle and Secondary Schools (3)
 - ___ SE655 Techniques of Teaching STEM Content (3)
 - ___ SE660 Intermediate Practicum 2 in Middle and Secondary Schools (3)
 - ___ SE670 Internship in Middle and Secondary Schools (8)
- Choose 4 hours:
- ___ SE652 Intermediate Methods of Teaching in Middle Schools (4)
 - ___ SE653 Intermediate Methods of Teaching in Secondary Schools (4)

Degree Requirements

The field experience component requires practicums within the appropriate certification grade-band and content area. These will occur during the mornings and/or afternoons. The field work must be completed in approved settings, under the supervision of a certified teacher and qualified university supervisor. This field work may be completed in the graduate student's workplace, if the setting meets the requirements.

Certification

The state of Missouri has high expectations for future educators. Students must meet the following standards to be recommended for licensure following degree completion. Students must maintain a 3.0 GPA in all required program courses. In addition, students must pass the MO Educator Evaluation System for recommendation for licensure, and fulfill other assessments such as a dispositions profile and be cleared through an FBI background check.

Sample sequence of required coursework

Because of the intensive workload for this program, graduate students will work closely with an advisor to take the appropriate sequence of courses, including clinical experiences.

| | Course # | Hours |
|-----------------------------|----------|-------|
| Semester 1 | SE602 | 3 |
| | SE650 | 3 |
| | Total | 6 |
| Milestone: Maintain 3.0 GPA | | |

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|-----------------------------|------------|---|
| Semester 2 | SE 651 | 3 |
| | SE 652/653 | 4 |
| | Total | 7 |
| Milestone: Maintain 3.0 GPA | | |

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|-----------------------------|--------|---|
| Semester 3 | SE 612 | 3 |
| | SE 654 | 3 |
| | SE655 | 3 |
| | SE660 | 3 |
| Total | 12 | |
| Milestone: Maintain 3.0 GPA | | |

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|--|-------|---|
| Semester 4 | SE670 | 8 |
| | Total | 8 |
| Milestone: Maintain 3.0 GPA; all professional education coursework complete. | | |