BSEd in Middle School Education with Emphasis in Mathematics

**Degree Program Description**

The Bachelor of Science in Education in Middle School Education prepares students to work with children from fifth through ninth grade in public, private, and alternative school systems. You may consider a degree in education if you enjoy working with children and/or adolescents, want to strengthen the future through education, and want to make a difference in the lives of others. MU Students work closely with mentors, practicing teachers, administrators, and university faculty to develop the knowledge and skills to enhance learning outcomes for children and youth. The coursework through the College of Education focuses on teachers’ roles in facilitating learning at all levels of development and considers the influences of cultural, political, historical, and economic factors on students, teachers, and schools.

Upon successfully completing the initial teacher certification process, the state grants you certification in middle school mathematics. Practical and rewarding clinical training in schools and agencies begins sophomore year, and continues each semester culminating in a senior-level teaching internship, enhancing teaching skills and confidence. Coursework within Middle School Mathematics will teach you ways to support the development and mathematical learning of middle school students by learning research-based instructional practices.

**Major Program Requirements**

Students must complete all university [general education requirements](http://catalog.missouri.edu/academicdegreerequirements/universityrequirements), general education [general education requirements](http://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements), and content requirements, in addition to degree requirements. Please meet with an Academic Advisor to discuss degree requirements and to create a semester plan.

Teacher Education programs in the College of Education are accredited by the Missouri Department of Elementary and Secondary Education (DESE [https://dese.mo.gov]). Curriculum changes mandated to earn teacher certification may become effective at any point during your academic program. Therefore, it is extremely important that you DO NOT SELF ADVISE.

**Degree Requirements Sample Program**

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<tr>
<th>Phase I</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LTC 1100</td>
<td>Orientation</td>
<td>Orientation</td>
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<tr>
<td>or LTC 1120</td>
<td>Orientation</td>
<td>Orientation: Math Education</td>
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<tr>
<td>or LTC 1130</td>
<td>Orientation</td>
<td>Orientation: Middle School Education</td>
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<tr>
<td>or LTC 1155</td>
<td>Orientation</td>
<td>Orientation: Science Education</td>
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</tr>
<tr>
<td>or LTC 1170</td>
<td>Orientation</td>
<td>Orientation: English/Language Arts</td>
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<tr>
<td>or SPC_ED 1100</td>
<td>Orientation</td>
<td>Orientation: Special Education</td>
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<tr>
<td>LTC 2200</td>
<td>School Health and Student Wellbeing</td>
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<tr>
<td>ESC_PS 2000</td>
<td>Experiencing Cultural Diversity in the United States</td>
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<td>ESC_PS 2010</td>
<td>Inquiry into Learning I</td>
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<td>ESC_PS 2014</td>
<td>Inquiry into Learning I - Field Experience</td>
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<th>Phase II</th>
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<tbody>
<tr>
<td>LTC 2040</td>
<td>Inquiring into Schools, Community and Society I</td>
<td>3</td>
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<tr>
<td>LTC 2044</td>
<td>Inquiry into Schools, Community and Society: Field</td>
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<td>IS_LT 2467</td>
<td>Inquiry into Empowering Learners with Technology</td>
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<tr>
<th>Phase II</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>LTC 4360</td>
<td>Intro. Teaching Mathematics in Middle and Secondary Schools</td>
<td>3</td>
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<tr>
<td>LTC 4364</td>
<td>Intro. Teaching Math in Middle and Secondary School Field Experience</td>
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<tr>
<td>LTC 4410W</td>
<td>Teaching, Engaging and Assessing Middle-Level Students - Writing Intensive</td>
<td>3</td>
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<tr>
<td>LTC 4560</td>
<td>Reading and Writing in the Content Areas</td>
<td>3</td>
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<tr>
<td>SPC_ED 4310</td>
<td>Behavioral and Classroom Management</td>
<td>3</td>
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<tr>
<td>LTC 4581</td>
<td>Teaching Mathematics in Middle and Secondary Schools: Focus on Algebra and Technology</td>
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<td>LTC 4584</td>
<td>Teaching Math in Middle and Secondary Schools: Algebra and Technology Field Experience</td>
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<tr>
<td>LTC 4565</td>
<td>Reading and Writing in the Content Areas II</td>
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<tr>
<td>SPC_ED 4020</td>
<td>Teaching the Exceptional Learner</td>
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<th>Phase III</th>
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<tbody>
<tr>
<td>LTC 4971</td>
<td>Internship and Capstone Seminar</td>
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<tr>
<td>LTC 4370W</td>
<td>Teaching and Modeling Middle School Mathematics - Writing Intensive</td>
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<td>LTC 4374</td>
<td>Teaching and Modeling Middle School Mathematics Field Experience</td>
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<td>LTC 4460</td>
<td>Teaching English to Speakers of Other Languages</td>
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<td>ED_LPA 4060</td>
<td>Inquiring into Schools, Community and Society II</td>
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**Content Area**

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<tr>
<th>Course Code</th>
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<tr>
<td>STAT 1200</td>
<td>Introductory Statistical Reasoning (Recommended)</td>
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Or one of the following:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>STAT 1300</td>
<td>Elementary Statistics (Transfer only)</td>
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<tr>
<td>STAT 1400</td>
<td>Elementary Statistics for Life Sciences (Transfer Only)</td>
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<tr>
<td>STAT 2500</td>
<td>Introduction to Probability and Statistics I (Also Accepted)</td>
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<tr>
<td>MATH 1160</td>
<td>Precalculus Mathematics (OR)</td>
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<tr>
<td>MATH 1100</td>
<td>College Algebra (And)</td>
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<tr>
<td>MATH 1140</td>
<td>Trigonometry</td>
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<tr>
<td>MATH 1300</td>
<td>Finite Mathematics</td>
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<tr>
<td>MATH 1360</td>
<td>Geometric Concepts</td>
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<tr>
<td>MATH 4060</td>
<td>Connecting Geometry to Middle and Secondary Schools</td>
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<td>MATH 4070</td>
<td>Connecting Algebra to Middle and Secondary Schools</td>
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<td>MATH 1400</td>
<td>Calculus for Social and Life Sciences I (OR)</td>
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<tr>
<td>MATH 1500</td>
<td>Analytic Geometry and Calculus I</td>
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<tr>
<td>MATH 2320</td>
<td>Discrete Mathematical Structures</td>
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<tr>
<td>STAT 4050</td>
<td>Connecting Statistics to Middle and Secondary Schools</td>
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# Semester Plan

Below is a sample plan of study, semester by semester. A student’s actual plan may vary based on course choices and where options are available.

## First Year

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>LTC 1100</td>
<td>1 LTC 2200</td>
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<tr>
<td>MATH 1160 or 1100 and 1140</td>
<td>5 ENGLISH 1000</td>
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<td>American History or Government</td>
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<td>ESC_PS 2000 (Social Science)</td>
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## Second Year

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<tr>
<td>MATH 1300</td>
<td>3 MATH 1400 or 1500</td>
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## Third Year

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<td>3 LTC 4581</td>
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<tr>
<td>LTC 4364</td>
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<td>LTC 4410W</td>
<td>3 STAT 4050</td>
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## Fourth Year

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Total Credits: 120