BSEd in Middle School Education with Emphasis in Science

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 science. 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 Science will teach you ways to support the development of science learning of middle school students. This includes consideration of the nature of science, methods for teaching science, strategies for assessing science learning, and pathways for developing into a professional science educator.

Major Program Requirements
Students must complete all university (http://catalog.missouri.edu/academicdegerequirements/universityrequirements/), general education (http://catalog.missouri.edu/academicdegerequirements/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

Early Experiences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>LTC 1100</td>
<td>Orientation (OR)</td>
<td>1</td>
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<tr>
<td>or SPC_ED 1100</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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<tr>
<td>ESC_PS 2010</td>
<td>Inquiry Into Learning I</td>
<td>3</td>
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<tr>
<td>ESC_PS 2014</td>
<td>Inquiry into Learning I - Field Experience</td>
<td>1</td>
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<tr>
<td>LTC 2040</td>
<td>Inquiring into Schools, Community and Society I</td>
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Mid-Level Experiences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>CR</th>
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<tbody>
<tr>
<td>LTC 4344</td>
<td>Middle School Science Field I</td>
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<tr>
<td>LTC 4460</td>
<td>Teaching English to Speakers of Other Languages</td>
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<tr>
<td>LTC 4560</td>
<td>Reading and Writing in the Content Areas</td>
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<tr>
<td>LTC 4350</td>
<td>Middle School Science II</td>
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<tr>
<td>LTC 4354</td>
<td>Middle School Science 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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Content Area

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 1320</td>
<td>College Chemistry I</td>
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<tr>
<td>CHEM 1330</td>
<td>College Chemistry II</td>
<td>4</td>
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<tr>
<td>PHYSCS 1210</td>
<td>College Physics I</td>
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<tr>
<td>or PHYSCS 2750</td>
<td>University Physics I</td>
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<tr>
<td>PHYSCS 1200</td>
<td>Everyday Wonders: Explaining How Ordinary Things Work</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1100</td>
<td>Introduction to the Earth with Laboratory</td>
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<tr>
<td>or GEOL 1200</td>
<td>Environmental Geology with Laboratory</td>
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<tr>
<td>ATM_SC 1050</td>
<td>Introductory Meteorology</td>
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<tr>
<td>or BIO_SC 1500</td>
<td>Introduction to Biological Systems with Laboratory (Recommended)</td>
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<tr>
<td>&amp; BIO_SC 1010</td>
<td>General Principles and Concepts of Biology</td>
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<td>or BIO_SC 1020</td>
<td>General Biology Laboratory</td>
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<tr>
<td>BIO_SC 1030</td>
<td>General Principles and Concepts of Biology with Laboratory (Transfer Only)</td>
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<tr>
<td>BIO_SC 1060</td>
<td>Basic Environmental Studies</td>
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<tr>
<td>or NAT_R 1060</td>
<td>Ecology and Conservation of Natural Resources</td>
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<tr>
<td>BIO_SC 4994</td>
<td>Senior Seminar (Teaching Middle/Secondary Bio)</td>
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Advanced-Level Experiences

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<tr>
<td>LTC 4654</td>
<td>Teach Sci MS/Sec Sch: Phil,Hist,Sci Inq,Curr,Assn &amp; Tech III Fld</td>
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<tr>
<td>LTC 4410W</td>
<td>Teaching, Engaging and Assessing Middle-Level Students - Writing Intensive</td>
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<tr>
<td>ED_LPA 4060</td>
<td>Inquiring into Schools, Community and Society II</td>
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<tr>
<td>SPC_ED 4310</td>
<td>Behavioral and Classroom Management</td>
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<tr>
<td>LTC 4971</td>
<td>Internship and Capstone Seminar</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

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<tr>
<th>Course</th>
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<tr>
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<td>LTC 2200</td>
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<td>MATH 1100</td>
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<tr>
<td>American History or Government</td>
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</tr>
<tr>
<td>American History or Government</td>
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### Second Year

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<tr>
<th>Course</th>
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<tr>
<td>ESC_PS 2010 or LTC 2040 (Social Science)</td>
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<tr>
<td>ESC_PS 2014 or LTC 2044</td>
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<tr>
<td>Humanities</td>
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<td>3</td>
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<td>CHEM 1320</td>
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<td>Elective</td>
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**Total Credits: 16**

### Third Year

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<td>LTC 4344</td>
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<td>LTC 4560</td>
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<tr>
<td>PHYSICS 1200</td>
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<td>BIO_SC 1060 or NAT_R 1060</td>
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**Total Credits: 14**

### Fourth Year

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<tbody>
<tr>
<td>LTC 4654</td>
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<tr>
<td>LTC 4410W</td>
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<tr>
<td>ED_LPA 4060</td>
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<tr>
<td>SPC_ED 4310</td>
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<td>BIO_SC 4994</td>
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<tr>
<td>ATM_SC 1050</td>
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**Total Credits: 16**

**Total Credits: 120-121**