

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 & Human Development 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/academicdegree/requirements/universityrequirements/>), general education (<http://catalog.missouri.edu/academicdegree/requirements/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 & Human Development 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

| | | |
|----------------------------|---|---|
| LTC 1100 or SPC_ED 1100 | Orientation Orientation: Special Education | 1 |
| LTC 2200 | School Health and Student Wellbeing | 3 |
| ESC_PS 2010 | Inquiry Into Learning I | 3 |
| ESC_PS 2014 | Inquiry into Learning I - Field Experience | 1 |
| LTC 2040 or LTC 2040H | Inquiring into Schools, Community and Society I Inquiring into Schools, Community and Society I - Honors | 3 |

| | | |
|-----------------------------------|---|----|
| LTC 2044 | Inquiry into Schools, Community and Society: Field | 1 |
| IS_LT 2467 | Inquiry into Empowering Learners with Technology | 3 |
| Mid-Level Experiences | | |
| LTC 4340 | Middle School Science I | 4 |
| LTC 4344 | Middle School Science Field I | 1 |
| LTC 4460 or LTC 4460H | Teaching English to Speakers of Other Languages Teaching English to Speakers of Other Languages - Honors | 3 |
| LTC 4560 | Reading and Writing in the Content Areas | 3 |
| LTC 4350 | Middle School Science II | 3 |
| LTC 4354 | Middle School Science Field Experience | 1 |
| LTC 4565 | Reading and Writing in the Content Areas II | 3 |
| SPC_ED 4020 | Teaching the Exceptional Learner | 3 |
| Advanced-Level Experiences | | |
| LTC 4355 | Middle School Science Methods III | 3 |
| LTC 4654 | Teach Sci MS/Sec Sch: Phil,Hist,Sci Inq,Curr,Assm & Tech III Fld | 1 |
| LTC 4410 | Teaching, Engaging and Assessing Middle-Level Students | 3 |
| ED_LPA 4060 | Inquiring into Schools, Community and Society II | 3 |
| SPC_ED 4310 | Behavioral and Classroom Management | 3 |
| LTC 4971 LTC 4971H | Internship and Capstone Seminar Internship and Capstone Seminar - Honors (Honors students can choose to enroll in 6 credit hours of LTC 4971H and 6 credit hours of LTC 4971 to fulfill 12 credit hour requirement for Internship and Capstone Seminar.) | 12 |

| | | |
|---|--|-----|
| Content Area | | |
| CHEM 1400 & CHEM 1401 or CHEM 1400H & CHEM 1401H | College Chemistry I and College Chemistry I Laboratory College Chemistry I - Honors and College Chemistry I Laboratory - Honors | 4 |
| CHEM 1410 & CHEM 1411 or CHEM 1410H & CHEM 1411H | College Chemistry II and College Chemistry II Laboratory College Chemistry II - Honors and College Chemistry II Laboratory - Honors | 4 |
| PHYSICS 1210 or PHYSICS 2750 | College Physics I University Physics I | 4-5 |
| PHYSICS 1200 | Everyday Wonders: Explaining How Ordinary Things Work | 4 |
| GEOL 1100 or GEOL 1200 or GEOL 1100H or GEOL 1200H | Introduction to the Earth with Laboratory Environmental Geology with Laboratory Introduction to the Earth with Laboratory - Honors Environmental Geology with Laboratory - Honors | 4 |
| ATM_SC 1050 or ATM_SC 1050H | Introductory Meteorology Introductory Meteorology - Honors | 3 |
| BIO_SC 1500 or BIO_SC 1500H | Introduction to Biological Systems with Laboratory (Recommended) (BIO_SC 1030: Transfer students only) Introduction to Biological Systems with Laboratory Honors | 3-5 |

| | | |
|---------------------------------|--|---|
| or BIO_SC 1010 & BIO_SC 1020 | General Principles and Concepts of Biology and General Biology Laboratory | |
| or BIO_SC 1030 | General Principles and Concepts of Biology with Laboratory | |
| ENV_SC 1100 | Introduction to Environmental Science | 3 |
| or ENV_SC 1100H | Introduction to Environmental Science - Honors | |
| or NAT_R 1070 | Ecology and Conservation of Natural Resources | |

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 | | | |
|---|-----------|---|--------------|
| Fall | CR | Spring | CR |
| LTC 1100 | | 1 LTC 2200 | 3 |
| MATH 1100 | | 3 IS_LT 2467 | 3 |
| Humanities | | 3 ENGLISH 1000 | 3 |
| American History or Government | | 3 BIO_SC 1500 | 5 |
| ATM_SC 1050 | | 3 Elective | 1 |
| Elective | | 3 | |
| | 16 | | 15 |
| Second Year | | | |
| Fall | CR | Spring | CR |
| ESC_PS 2010 or LTC 2040 (Social Science) | | 3 ESC_PS 2010 or LTC 2040 (Social Science) | 3 |
| ESC_PS 2014 or LTC 2044 | | 1 ESC_PS 2014 or LTC 2044 | 1 |
| Humanities | | 3 Humanities | 3 |
| Writing Intensive | | 3 GEOL 1200 or 1100 | 4 |
| Social or Behavioral Science | | 3 CHEM 1410 | 3 |
| CHEM 1400 | | 3 CHEM 1411 | 1 |
| CHEM 1401 | | 1 | |
| | 17 | | 15 |
| Third Year | | | |
| Fall | CR | Spring | CR |
| LTC 4340 | | 4 LTC 4350 | 3 |
| LTC 4344 | | 1 LTC 4354 | 1 |
| LTC 4460 | | 3 LTC 4565 | 3 |
| LTC 4560 | | 3 SPC_ED 4020 | 3 |
| PHYSICS 1200 | | 4 PHYSICS 1210 or 2750 | 4-5 |
| | 15 | | 14-15 |
| Fourth Year | | | |
| Fall | CR | Spring | CR |
| LTC 4355 | | 3 LTC 4971 | 12 |
| LTC 4654 | | 1 | |
| LTC 4410 | | 3 | |
| ED_LPA 4060 | | 3 | |
| SPC_ED 4310 | | 3 | |
| ENV_SC 1100 or NAT_R 1070 | | 3 | |
| | 16 | | 12 |

Total Credits: 120-121