

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

Cultural Diversity Requirement-Choose one of the following, or a course from the Multicultural Certificate Course List ^{The course must be in addition to major Education and content course requirements (it cannot double dip with any other professional Education course requirement or content course requirement); however, it may count towards a general education requirement.} 3

Early Experiences

ESC_PS 2000	Experiencing Cultural Diversity in the United States
or H_D_FS 2300	Multicultural Study of Children and Families
or Multicultural Certificate Course (https://multicultural.missouri.edu/application/course-list/)	

LTC 1100	Orientation	1
or SPC_ED 1100	Orientation: Special Education	
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
or ESC_PS 2014H	Inquiry into Learning I - Field Experience - Honors	
LTC 2040	Inquiring into Schools, Community and Society I	3
or LTC 2040H	Inquiring into Schools, Community and Society I - Honors	
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	Teaching English to Speakers of Other Languages	3
or LTC 4460H	Teaching English to Speakers of Other Languages - Honors	
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	Internship and Capstone Seminar	12
LTC 4971H	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.)	

Content Area

CHEM 1320	College Chemistry I	4
or CHEM 1320H	College Chemistry I - Honors	
CHEM 1330	College Chemistry II	4
or CHEM 1330H	College Chemistry II- Honors	
PHYSICS 1210	College Physics I	4-5
or PHYSICS 2750	University Physics I	
PHYSICS 1200	Everyday Wonders: Explaining How Ordinary Things Work	4
GEOL 1100	Introduction to the Earth with Laboratory	4
or GEOL 1200	Environmental Geology with Laboratory	
or GEOL 1100H	Introduction to the Earth with Laboratory - Honors	
or GEOL 1200H	Environmental Geology with Laboratory - Honors	
ATM_SC 1050	Introductory Meteorology	3

or ATM_SC 1050H	Introductory Meteorology - Honors	
BIO_SC 1500	Introduction to Biological Systems with Laboratory (Recommended) (BIO_SC 1030: Transfer students only)	3-5
or BIO_SC 1500H	Introduction to Biological Systems with Laboratory Honors	
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	
BIO_SC 1060	Basic Environmental Studies	3
or NAT_R 1070	Ecology and Conservation of Natural Resources	
or ENV_SC 1100	Introduction to Environmental Science	
or ENV_SC 1100H	Introduction to Environmental Science - Honors	

BIO_SC 1060, NAT_R 1070, or ENV_SC 1100	3
	16
	12

Total Credits: 120-121

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
Cultural Diversity Requirement		3 IS_LT 2467	3
MATH 1100		3 ENGLISH 1000	3
Humanities		3 BIO_SC 1500	5
American History or Government		3 Elective	1
ATM_SC 1050		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
CHEM 1320		4 CHEM 1330	4
Writing Intensive		3 GEOL 1200 or 1100	4
Social or Behavioral Science		3	
	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	