

BSEd in Secondary Education with Emphasis in Earth Science

Degree Program Description

The Bachelor of Science in Education in Secondary Education prepares students to work with children from ninth through twelfth 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 secondary earth 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 Secondary Earth Science provides you with experience in the methods of teaching earth science and supporting learners in the development of scientific literacy. This includes consideration of the nature of science, methods for teaching science, strategies for assessing science learning, and pathways for developing into a professional earth 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.

Cultural Diversity Requirement-Choose one of the following, or a course from the Multicultural Certificate Course List 3
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.

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/)	

Early Experiences

LTC 1100	Orientation	1
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	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 4631		Teach.Sci.Second.Sch.:Phil.,Hist., Sci.Inq.,Curr., Assm., & Teach I	4
LTC 4634		Teaching Middle and Secondary Science I Field	1
LTC 4560		Reading and Writing in the Content Areas	3
LTC 4460		Teaching English to Speakers of Other Languages	3
	or LTC 4460H	Teaching English to Speakers of Other Languages - Honors	
LTC 4641		Teaching Middle and Secondary Science II	3
LTC 4644		Teaching Middle and Secondary Science II Field	1
SPC_ED 4020		Teaching the Exceptional Learner	3
LTC 4565		Reading and Writing in the Content Areas II	3

Advanced-Level Experiences

LTC 4651		Teach.Sci.Second.Sch.:Phil.,Hist.,Sci.Inq. & Tech III	3
LTC 4654		Teach Sci MS/Sec Sch: Phil,Hist,Sci Inq,Curr,Assm & Tech III Fld	1
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

GEOL 1050	Planet Earth	3
GEOL 1200	Environmental Geology with Laboratory	4
	or GEOL 1200H	Environmental Geology with Laboratory - Honors
GEOL 2150	The Age of the Dinosaurs	3
GEOL 2350	Earth and Life Through Time	3
GEOL 2360	Earth and Life Through Time Laboratory	1
GEOL 2400	Surficial Earth Processes and Products with Laboratory	4
ATM_SC 1050	Introductory Meteorology	3
	or ATM_SC 1050H	Introductory Meteorology - Honors
ASTRON 1010	Introduction to Astronomy	4
GEOL Electives (Choose 2)		7-9

GEOL 3250	Mineralogy	
GEOL 3800	Sedimentology and Stratigraphy with Lab	
GEOL 4150	Structural Geology	
MATH 1400	Calculus for Social and Life Sciences I	3
BIO_SC 1500	Introduction to Biological Systems with Laboratory (Recommended)	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 (Transfer Only)	
CHEM 1320	College Chemistry I	4
or CHEM 1320H	College Chemistry I - Honors	
PHYSICS 1210	College Physics I	4-5
or PHYSICS 2750	University Physics I	
or PHYSICS 2750H	University Physics I - Honors	

ED_LPA 4060	3
SPC_ED 4310	3
PHYSICS 1210 or 2750	4-5
Geology Elective	3-5
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	17-20
	12

Total Credits: 123-128

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 (choose a Social or Behavioral Science)		3 ENGLISH 1000	3
MATH 1400		3 Humanities	3
American History or Government		3 GEOL 2600	3
GEOL 1200		4 ATM_SC 1050	3
		14	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
Writing Intensive & Humanities		3 Humanities	3
BIO_SC 1500		5 GEOL 2150	3
ASTRON 1010		4 GEOL 2350	3
		GEOL 2360	1
		16	14
Third Year			
Fall	CR	Spring	CR
LTC 4631		4 LTC 4641	3
LTC 4634		1 LTC 4644	1
SPC_ED 4020		3 LTC 4460	3
LTC 4560		3 LTC 4565	3
IS_LT 2467		3 Geology Elective	3-5
GEOL 2400		4 CHEM 1320	4
		18	17-19
Fourth Year			
Fall	CR	Spring	CR
LTC 4651		3 LTC 4971	12
LTC 4654		1	