

Major Program Guide for a B.S.Ed. in Science Education
Concentration: Earth Sciences
Suggested Course Sequence for 8-semester plan[#]

Liberal Studies

Profession Education Sequence

Science Education/Earth Science

42 (33) hours (9 hours are met through major requirements in math and science)

23 hours

64 hours

120 hours

Freshman Year							
Fall				Spring			
Prefix or LS requirement	Course number	Title	Credit Hours	Prefix or LS requirement	Course number	Title	Credit Hours
SCI	150	Intro. Secondary Sci. Educ.	1	GEOL	141	Earth History...	3
GEOL	150	Earth: Geology,...	3	BIOL	140	Principles of Biology I	4
MATH	146	Precalculus	4	MATH	170	Applied Stats.	3
C3: COMM	201	Foundations Comm.	3	P6	-	World Cultures	3
C1: ENGL	101	Writing and Rhetoric	3	P1	-	Social Sciences	3
1 st Year Sem.	190/191	-	3	C4	-	Wellness	3
			17				16
Sophomore Year							
Fall				Spring			
Prefix or LS requirement	Course number	Title	Credit Hours	Prefix or LS requirement	Course number	Title	Credit Hours
EDCI	201	Teaching Leadership & ...	3	GEOL	302 or 305	Geomorphology/Soils & ...	4
GEOL	145	Climate Change...	3	P3	-	History	3
CHEM	139	General Chemistry I	4	AST	103	Solar System	3
C1: ENGL	202	Writing & Critical Inquiry	3	(P1 ULP) PSY	320	Social Sciences	3
P5	-	Fine & Performing Arts	3	P4	-	Humanities	3
Complete the Core Praxis; Apply for admission to Ed Prog.							
			16				16
Junior Year							
Fall				Spring			
Prefix or LS requirement	Course number	Title	Credit Hours	Prefix or LS requirement	Course number	Title	Credit Hours
PHYS	130	Introductory Physics I	4	GEOL	upper lev.	Geology elective	4
CHEM	140	Advanced Gen. Chemistry	4	PHYS	131	Introductory Physics II	4
BIOL	141	Principles of Biology II	4	SCI	301	Nature of Science	3
SPED	240	Exceptional Child	3	EDCI	430	Classroom Management	3
			15				14
Senior Year							
Fall				Spring			
Prefix or LS requirement	Course number	Title	Credit Hours	Prefix or LS requirement	Course number	Title	Credit Hours
SCI	422	Princ. & Meth. Sci. Educ.	3	SCI	491	Supervised Teach. Science	3
GEOL	393 or 495	Research Capstone	3	EDSE	485	Internship II	6
GEOL/Science	upper lev.	Science elective	3	EDSE	495	Seminar	3
EDSE	483	Sec/Spec Sub Area Intern I	3 [^]				
			12				12

[#] This plan is a suggestion that should guide registration. Variations of this plan on possible in consult with your advisor.

^{*} One of LS perspectives must be an upper-level, 300-400, course

[^]Only the 2 credit version of the course is required, but the 3 credit is recommended (Internship 2 days per week)

Course Check Sheet for B.S.Ed. in Science Education, Concentration in Earth Sciences

Term	Grade	Course	Hours
Professional Education Sequence			23
		EDCI 201 - Teacher Leadership in a Diverse Society	3
		SPED 240 - The Exceptional Child	3
		EDCI 430 - Culturally Relevant Classroom Management	3
		EDSE 483 - Secondary/Special Subject Area Internship I & Methods	2
		SCI 491 - Supervised Student Teaching in the Sciences	3
		EDSE 485- Internship II	6
		EDSE 495 – Seminar (During Student Teaching)	3

Science and Math Requirements in Earth and Science Concentration			64
		SCI 150 - Introduction to Secondary Science Education	1
		SCI 301 - Nature of Science	3
		SCI 422 - Principles and Methods of Science Education	3
		MATH 146 - Precalculus	4
		MATH 153 - Calculus I (4) OR MATH 170 - Applied Statistics (3)	3
		BIOL 140 - Principles of Biology I	4
		BIOL 141 - Principles of Biology II	4
		CHEM 139 - General Chemistry I	4
		CHEM 140 - General Chemistry II	4
		GEOL 150 - Earth: Geology, Resources, Hazards, and Environment	3
		GEOL 141 - Earth History and Prehistorical Life	3
		GEOL 145 - Climate Change and Water Resources	3
		PHYS 130 - Introductory Physics I	4
		PHYS 131 - Introductory Physics II	4
		AST 103 - The Solar System (3) OR AST 104 - Cosmic Evolution (3)	3
		GEOL 302 – Geomorphology (4) OR GEOL 305 - Soils and Hydrology (4)	4
		Approved Geology 200 or higher level electives	4
		Approved upper-level science electives	3
		Capstone GEOL 393 - Special Problems in Geology OR GEOL 495 - Senior Seminar in Geology	3

Liberal Studies (C2--Math and C5--Science core areas met with major requirements)			33
		First Year Seminar, 190 or 191	3
		C1: ENGL 101 - Writing and Rhetoric	3
		C1: ENGL 202 – Writing and Critical Inquiry	3
		C3: COMM 201 – Foundations Communication	3
		C4: Wellness; e.g., HEAL 111, HEAL 123, or HSCC 101	3
		P1: Social Science, course 1	3
		P1: Social Science, course 2 (<i>must be from a different discipline than other P1 course</i>)	3
		P3: History	3
		P4: Humanities	3
		P5: Fine & Performing Arts	3
		P6: World Cultures	3
		<i>*Note: at least one of LS perspectives must be an upper-level, 300-400, course</i>	