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

Liberal Studies

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

Profession Education Sequence Science Education/Earth Science

23 hours 64 hours

120 hours

			Freshm	an Year			
		Fall				Spring	
Prefix or LS	Course		Credit	Prefix or LS	Course		Credit
requirement	number	Title	Hours	requirement	number	Title	Hours
BIOL	140	Principles of Biology I	4	BIOL	141	Principles of Biology II	4
CHEM	139	General Chemistry I	4	GEOL	150	Earth,	3
C3: COMM	201	Foundations Comm.	3	MATH	146	Precalculus	4
C1: ENGL	101	Writing and Rhetoric	3	P6	-	World Cultures	3
1 st Year Sem.	190/191	-	3	C1: ENGL	202	Writing & Critical Inquiry	3
			17				17
			Sophom	ore Year			
		Fall	T.		1	Spring	
Prefix or LS	Course		Credit	Prefix or LS	Course		Credit
requirement	number	Title	Hours	requirement	number	Title	Hours
BIOL	240	Introduction to Genetics	4	BIOL	241	Introduction to Eco & Evo	4
EDCI	201	Teaching Leadership &	3	MATH	153	Calculus I	4
PHYS	130	General Physics I	4	GEOL	145	Climate Change and	3
CHEM	140	Advanced Gen. Chemistry	4	P1	-	Social Sciences	3
SCI	150	Intro. Secondary Sci. Educ.	1	P3	-	History	3
Complete the C	ore Praxis; App	ly for admission to Ed Prog.					
			16				17
			Junio	r Year			
		Fall	1			Spring	
Prefix or LS	Course		Credit	Prefix or LS	Course		Credit
requirement	number	Title	Hours	requirement	number	Title	Hours
BIOL	306	Evolutionary Biology	3	PHYS	131	General Physics II	4
GEOL	141	Earth History	3	SCI	301	Nature of Science	3
SPED	240	Exceptional Child	3	(P1 ULP) PSY	320	Social Sciences	3
P5	-	Fine & Performing Arts	3	EDCI	430	Classroom Management	3
C4	-	Wellness	3	P4	-	Humanities	3
}							
			15				16
		F-11	Senio	r Year		Consider a	
Drofiv or IC	Course	Fall	Cradit	Drofiv or IC	Course	Spring	Cradit
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
BIOL	422		3	EDSE	491	•	6
Upper level	480	Research in Biology Science Elective	3	EDSE	485 495	Internship II Seminar	3
EDSE EDSE	483	Sec/Spec Sub Area Intern I	3^	LUSE	493	Scillidi	3
EDSE	483	Sec/Spec Sub Area Intern I	5"				
							
	1		12				12
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[#] 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	Science and Math Requirements in Earth and Science Concentration		
	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	
	BIOL 140 - Principles of Biology I	4	
	BIOL 141 - Principles of Biology II	4	
	CHEM 139 - General Chemistry I (CHEM 132 can be substituted)	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	
	BIOL 240 – Introduction to Genetics	4	
	BIOL 241 - Introduction to Ecology and Evolution	4	
	BIOL 306 – Evolutionary Biology	3	
	Upper level approved science	3	
	BIOL 480 – Research in Biology	3	

Liberal Studies (C2Math and C5Science core areas met with major requirements)	
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 (recommend ULP PSY 320)	3
P3: History	3
P4: Humanities	3
P5: Fine & Performing Arts	3
P6: World Cultures	3
*Note: at least one of LS perspectives must be an upper-level, 300-400, course	