

Sample 4-year Roadmap for the NATS Science Teaching Option, Biology emphasis

	Fall	Spring	Notes	Total Units
Year 1 (CSULA)	GE A1 (3)	GE A3 (3)	In Year 1 it is important to take your MATH 1040 since it is a co-req for BIOL 1100 and a pre-req for MATH 2110 BIOL 1100 satisfies GE B2	
	GE A2 (3)	ASTR 1510/1520 (3) <i>Satisfies GE B1</i>		
	BIOL 1100 (5) Principals of Biology I <i>Co-req MATH 1040</i>	BIOL 1200 (5) Principals of Biology II		
	MATH 1040 (6) <i>Satisfies GE B4</i>	MATH 2110 (4) Calculus I <i>Need MATH 1040 prereq</i>		
	Total 17 units	Total 15 units		
Year 2 (CSULA)	CHEM 1100 Gen Chem I (5)	CHEM 1110 Gen Chem II (5)	All Freshmen are required to take an IHE course. Start emphasis area classes	
	GE D1 (3) <i>Choose a (d) course</i>	GE E (3) <i>Choose a (IHE)(CL) course</i>		
	GEOL 1500 (3) Earth Rev.	GE US Constitution (3)		
	MATH 2120 (4) Calculus II	BIOL 3200 Writing in Biology (3) <i>Satisfies GWAR</i>		
	BIOL 3000 (3) Biostatistics			
Total 18 units	Total 14 units		32	
Year 3 (CSULA)	GEOL 1550 (3) Oceanography <i>Required credential course</i>	GE C2 (3) <i>Choose a (d) or (re) course</i>	GEOL 1550 counts as a Free Elective	
	NATS 3980 Field Obs. in Science Ed. (1)	NATS 4000, 4100, 4200 or 4540 (3)		
	GEOL 2520 Historical Geology (3)	GE US History (3)		
	PHYS 1100 (4) - Physics I or PHYS 2100 (4)	PHYS 1200 (4) Physics II or PHYS 2200 (4)	PHYS counts as 8 UD elective units for major	
	BIOL 3400 (3) Cell Biology	BIOL 3800 (3) Ecology		
Total 14 units	Total 16 units		30	
Year 4 (CSULA)	CHEM 2200 (4) Organic Chemistry	MICR 3100 (4) Microbiology	All students need 8 units (2-3 courses) of UD GE, can take up to 3 units of Directed Study	
	NATS 4950 Capstone (3)	GE C1 (3) <i>Choose a (wi) course</i>		
	UD GE B (3) 1 of 3 <i>Choose a (cl) course</i>	UD major elective (3) 3 of 3		
	UD GE C (3) 3 of 3	UD GE D (3) 2 of 3		
Total 13 units	13 units		26	
Grand Total				120

Notes: This is a SAMPLE roadmap for the NATS Teaching Option (Option II), Biology emphasis, designed to be completed in 4 years. While it provides the content knowledge for the Single-Subject Teaching Credential, it is not a credential program. Students attend CCOE to complete the credential, which requires an additional 3-4 semesters of courses. Seek advisement from NATS advisors, Dr. James Rudd (jrudd@calstatela.edu), Lourdes Gonzales (lgonz207@calstatela.eedu) or the NSS advisement team (calstatela.edu/nssadvising). Visit the Natural Science Program website (calstatela.edu/academic/natsci) to view all roadmaps.