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	
	GE A2 (3)	**ASTR 1510/1520 (3)** Satisfies GE B1		
	BIOL 1100 (5) Principals of Biology I Co-req MATH 1040	**BIOL 1200 (5) Principals of Biology II**		
	MATH 1040 (6) Satisfies GE B4	**MATH 2110 (4) Calculus I** Need MATH 1040 prereq	BIOL 1100 satisfies GE B2	
	Total 17 units	**Total 15 units**	**Total units**	**32**
Year 2 (CSULA)	**CHEM 1100 Gen Chem I (5)**	**CHEM 1110 Gen Chem II (5)**		
	GE D1 (3) Choose a (d) course	**GE E (3)** Choose a (IHE)(CL) course	All Freshmen are required to take an IHE course.	
	GEOL 1500 (3) Earth Rev.	**GE US Constitution (3)**		
	MATH 2120 (4) Calculus II	**BIOL 3200 Writing in Biology (3)** Satisfies GWAR		
	BIOL 3000 (3) Biostatistics		Start emphasis area classes	
	Total 18 units	**Total 14 units**		**32**
Year 3 (CSULA)	**GEOL 1550 (3) Oceanography** Required credential course	**GE C2 (3)** Choose a (d) or (re) course	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)** Choose a (wi) course		
	UD GE B (3) 1 of 3 Choose a (cl) course	**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.