

BIOLOGY, MS

Natural Sciences, Mathematics, and Engineering (nsme) (<https://catalog.csub.edu/general-information/csub-information/school-natural-sciences-mathematics-engineering/>)

Department of Biology (<https://catalog.csub.edu/general-information/csub-information/school-natural-sciences-mathematics-engineering/department-biology/>)

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www.csub.edu/Biology/ (<http://www.csub.edu/Biology/>)

Program Maps for Natural Sciences, Mathematics, and Engineering (<https://programmmap.csub.edu/academics/interest-clusters/4e942a6e-b8e4-4b60-a1ae-334235acc581/>)

Program Requirements

Requirements for Thesis Option (30 Units)

Code	Title	Units
Thesis-Option		
BIOL 5100	Advanced Experimental Design and Analysis	4
BIOL 5010	Current Topics in Biology ¹	6
BIOL 6010	Seminar in Biology	2
BIOL 6911	Thesis ²	5
BIOL 6921	Thesis Defense	1
Electives Courses ³		
Select two of the following:		8
BIOL 4310	Conservation Biology	
BIOL 4320	Population and Community Ecology	
BIOL 4330	Behavioral Ecology	
BIOL 4340	Chemical Ecology	
BIOL 4350	Environmental Microbiology	
BIOL 4360	Aquatic Ecology	
BIOL 4410	Entomology	
BIOL 4420	Plant Diversity	
BIOL 4430	Wildlife Biology	
BIOL 4440	Molecular Genetics	
BIOL 4450	Genomics and Bioinformatics	
BIOL 4460	Evolutionary Genetics	
BIOL 4510	Comparative Vertebrate Structure	
BIOL 4520		
BIOL 4530	Terrestrial Ecosystem Ecology	
BIOL 4540	Physiological Plant Ecology	
BIOL 4550	Plant Structure and Function	
BIOL 4560	Plant Pathology	
BIOL 4700	Special Topics in Biology ⁴	
BIOL 5010	Current Topics in Biology ⁵	
BIOL 5710	Advanced Topics in Biology ⁴	

BIOL 5901	Research	
BIOL 5911	Graduate Practicum in the Teaching of Biology	
GEOL 4050	GIS for Natural Sciences	
GEOL 4770	Special Topics in Geology ⁴	
GEOL 4771	Special Topics in Geology 2 ⁴	
GEOL 5070	Early Life on Earth	
GEOL 5770	Advanced Topics ⁴	
GEOL 5771	Advanced Topics 2 ⁴	
GEOL 6770	Advanced Topics in Geology ⁴	
MATH 5210	Applied Statistical Computing and Multivariate Methods	4
Total Units		30

¹ 2 units each and repeated three times

² taken over multiple semesters in 1-3 unit increments

³ 4000-, 5000-, or 6000-level courses. Selection of elective courses must be approved by Graduate Director (non-thesis option) or Thesis Committee (thesis option). Selection of elective courses must be approved by Graduate Director (non-thesis option) or Thesis Committee (thesis option)

⁴ may be repeated for credit

⁵ when repeated in addition to the three required courses