

Marine Sciences

Major Courses

2022 - 2026 Catalog Requirements

To be used only for students completing quarter requirements in the 2026-27 year.

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Do you need to fulfill a quarter course?
Check the semester equivalency!

MAJOR COURSES	QUARTER COURSE		SEMESTER COURSE	NOTES
	BIO 150 Diversity and History of Life	➡	BIO 1150 Life History and Diversity	
	BIO 161 Intro to Cell and Molecular Biology	➡	BIO 1151 Life: Molecules and Cells	
	BIO 162 Introduction to Organismal Form & Function	✗	DISCONTINUED	BIO 162 content will be covered in BIO 1150, 1151 and 3352
	BIO 263 Introductory Ecology and Evolution	➡	BIO 2253 Principles of Ecology and Evolution	
	CHEM 302 Marine Chemistry	➡	CHEM 3370 Marine Chemistry	
	MSCI 100 Orientation to Marine Sciences	➡	MSCI 1100 Orientation to Marine Sciences	
	MSCI 300 Marine Ecology	➡	MSCI 3300 Marine Ecology	
	MSCI 301 Biological Oceanography	➡	MSCI 3301 Biological Oceanography	
	MSCI 403 Ocean Sampling Techniques	➡	MSCI 4403 Field Oceanography	
	PSC 201 Physical Oceanography	➡	PSC 2201 Physical Oceanography	
	BIO 461 Senior Project or BIO 462 -Senior Project Research Experience	➡	BIO 4461 Senior Project Research Proposal OR BIO 4462 Senior Project Research Experience OR BIO 4463 Senior Project Meta-analysis in Biology	
	Marine Resources, Conservation & Policy Select from the following: BIO 363 Principles of Conservation Biology MSCI 428 Marine Conservation & Policy MSCI 438 Aquaculture MSCI 439 Fisheries Science & Resource Management		Marine Resources, Conservation & Policy Select from the following: BIO 3343 Principles of Conservation Biology MSCI 4439 Marine Fisheries & Conservation Mgmt MSCI 4438 Aquaculture MSCI 4439 Marine Fisheries & Conservation Mgmt.	MSCI 428 & MSCI 439 are merging to MSCI 4439

Note: For all discontinued courses, the last time these will be offered is during the 2025-2026 academic year



Visit the BCSM semester conversion website for more information at csmadvising.calpoly.edu/semester-conversion



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QUARTER REQUIREMENT		SEMESTER COURSE	NOTES
MAJOR COURSES	Marine Biodiversity Select from the following: BIO 322 Ichthyology BIO 336 Invertebrate Zoology MCRO 436 Microbial Ecology MSCI 324 Marine Mammals, Birds, & Reptiles MSCI 437 Marine Botany	Marine Biodiversity Select from the following: BIO 3322 Ichthyology BIO 3326 Invertebrate Zoology MCRO 4436 Microbial Ecology MSCI 3324 Marine Mammals, Birds, & Reptiles MSCI 4437 Marine Botany	
	Communicating Science Select from the following: COMS 390 Environmental Communication COMS 395 Science Communication SCM 302 The Learn by Doing Lab MSCI 401 Marine Science Outreach MSCI 440 Communication Ocean Science to Inf. Audiences	Communicating Science Select from the following: COMS 3390 Environmental Communication COMS 3395 Science Communication SCM 3302 The Learn by Doing Lab MSCI 4401 Marine Science Outreach MSCI 4440 Communication Ocean Science to Inf. Audiences	



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Major Support Courses

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SUPPORT COURSES	QUARTER COURSE		SEMESTER COURSE	NOTES
	CHEM 127 Gen CHEM for Ag & Life Science I		CHEM 1120 Fundamentals of Chemical Structure & Properties	
	CHEM 128 Gen CHEM for Ag & Life Science II		CHEM 1122 Fundamentals of Chemical Reactivity	
	CHEM 129 Gen CHEM for Ag & Life Science III	X	DISCONTINUED	Term last offered: Summer 2026
	CHEM 216 Organic Chemistry I OR CHEM 312 Organic Chem: Fund. & Applications	➔	CHEM 2242 Organic Chemistry I OR CHEM 2240 Organic Chem: Fund. & Applications	
	GEOL 102 Introduction to Geology	X	DISCONTINUED	Suggested course to take is GEOL 2240
	MATH 141 or 161 Calculus I or Calculus for the Life Sciences I	➔	MATH 1261 Calculus I or MATH 1264 Calculus for Data Science I	Recommended course is MATH 1264
	MATH 142 or 162 Calculus II or Calculus for the Life Sciences II	➔	MATH 1262 Calculus II or MATH 1265 Calculus for Data Science II	Recommended course is MATH 1265
	PHYS 121 College Physics I	➔	PHYS 1121 College Physics I	
	PHYS 122 College Physics II	X	DISCONTINUED	Students may need to take bridge class
	PHYS 123 College Physics III	➔	PHYS 1123 College Physics II	
	STAT 218 Applied Statistics for the Life Sciences	➔	STAT 1110 Applied Statistical Concepts and Methods	
	STAT 313 Applied Experimental Design & Regression Models	X	DISCONTINUED	Suggested course to take is STAT 3520



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Approved Electives

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	QUARTER COURSE	SEMESTER COURSE	NOTES
	APPROVED ELECTIVES	APPROVED ELECTIVES	
CONCENTRATION	ASCI 290	DISCONTINUED	
	BIO 200	BIO 2200	
	BIO 300	BIO 3300	
	BIO 351	BIO 3351	
	BIO 361	BIO 3352	
	BIO 400	BIO 4400	
	BIO 414	BIO 4414	
	BIO 415	BIO 4449	
	BIO 423	NR 4421	
	BIO 434	BIO 4424	
	BIO 442	BIO 4442	
	BIO 444	BIO 4444	
	BIO 445	BIO 4444	
	BIO 446	BIO 4446	
	BIO 450	BIO 4450	
	BIO 452	BIO 4452	
	BIO 461	BIO 4461	
	BIO 462	BIO 4462	
	BIO 463	BIO 4466	
	BIO 470	BIO 4470	
	BIO 471	BIO 4471	
	BIO 472	BIO 4472	
	BRAE 333	DISCONTINUED	
	CHEM 201	CHEM 2201	
	CHEM 217	CHEM 2242	
	CHEM 218	CHEM 2244	
	CHEM 220	DISCONTINUED	
	CHEM 221	DISCONTINUED	
	CHEM 223	DISCONTINUED	CHEM 220, 221 and 223 content merged CHEM 2242 and 2244
	CHEM 314	CHEM 3350	
	CHEM 331	CHEM 3330	
	CHEM 341	CHEM 3372	
	CHEM 369	CHEM 3352	
	CHEM 372	CHEM 3354	
	CHEM 400	CHEM 4400	
	CHEM 401	CHEM 4401	
	CHEM 475	BIO 4475	
	COMS 390	COMS 3390	
	COMS 395	COMS 3395	



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	CSC 101	CSC 1001	
	CSC 202	CSC 2001	
	CSC 203	DISCONTINUED	
	CSC 231	CSC 1031	
	CSC 232	CSC 1032	
	DATA 301	DATA 3301	
	EE 201	EE 2201	
	EE 321	DISCONTINUED	
	SCM 302	SCM 3302	
	ENGR 400	ENGR 4400	
	ENVE 331	ENVE 2331	
	ENVE 400	ENVE 4400	
	ENVE 434	ENVE 3434	
	GEOL 200	GEOL 2200	
	GEOL 241	GEOL 2241	
	GEOL 330	GEOL 3330	
	GEOL 400	GEOL 4400	
	MATH 143	MATH 1262	
	MATH 241	MATH 2263	
	MATH 244	MATH 2341	
	MCRO 224	MCRO 2224	
	MCRO 436	MCRO 4436	
	MSCI 401	MSCI 4401	
	MSCI 410	MSCI 4410	
	NR 218	NR 2218	
	NR 404	NR 3317	
	NR 317	NR 3321	
	NR 321	NR 4404	
	PHYS 200	PHYS 2200	
	PHYS 314	PHYS 3314	
	PHYS 400	PHYS 4400	
	PHYS 461	PHYS 4461	
	PHYS 462	PHYS 4462	
	STAT 323	STAT 3540	
	STAT 324	STAT 3430	
	STAT 330	STAT 3800	
	STAT 331	STAT 1810	
	STAT 334	STAT 3530	
	STAT 416	STAT 4760	
	UNIV 350	UNIV 3350	



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