

# 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!

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

MAJOR COURSES

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



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



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## Major Support Courses

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



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## Approved Electives

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QUARTER COURSE		SEMESTER COURSE	NOTES
CONCENTRATION	APPROVED ELECTIVES	← APPROVED ELECTIVES	
	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	<b>CHEM 220, 221 and 223</b> content merged CHEM 2242 and 2244	
CHEM 220	DISCONTINUED		
CHEM 221	DISCONTINUED		
CHEM 223	DISCONTINUED		
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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	QUARTER COURSE	SEMESTER COURSE	NOTES
<b>APPROVED ELECTIVES</b>	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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