MARINE SCIENCE, BS

Students pursuing a degree in marine science typically have interests in biodiversity, conservation, the environment, and/or graduate or professional programs. High school preparation should include a solid background in mathematics, introductory life sciences, and chemistry. To complete the degree, students will be required to take courses at a marine lab, providing experiential learning opportunities.

Marine Science Requirements

Marine Science	ce Required Courses		Hours
Core Requirements			
Select one of the following:			4
BSC 114 & BSC 115 or	Principles Of Biology I and Laboratory Biology I		
BSC 118	B Honors General Biology I		
Select one of the following:			4
BSC 116 & BSC 117 or	Principles Biology II and Laboratory Biology II		
BSC 120	Honors Gen Biology II		
Select one of	the following:		4
CH 101 or	General Chemistry		
CH 117	Honors General Chemistry		
Select one of the following:			4
CH 102 or	General Chemistry		
CH 118	Honors General Chemistry		
Select one of the following:			4
GEO 102 oi	The Earth Through Time		
GEO 105 Sustainable Earth			
Other Required Courses			7
GEO 101	The Dynamic Earth		
BSC 385	Ecology and Evolution		
Marine Science Courses			
MS 304	Marine Geology		4
MS 306	Marine Biology		4
MS 448	Intro Oceanography		4
Marine Science 300 or 400 level Electives			4
MS 408	Marine Invertebrate Zoology		
MS 419	Marine Ecology		
MS 433	Coastal Zone Management		
MS 452	Marine Vertebrate Zoology		
MS 453	Marine Botany		
MS 497	Special Topics		
Select one of the following:			3
ST 260 or	Statistical Data Analysis		
BSC 380	Intro Stats Biology		
Upper Division Electives in BSC or MS			
Select from th	ne Elective Course List below.		
		Credit Hours Subtotal:	54
Required Anci	illary Courses:		

Grades in ancillary courses are not computed into the major GPA. The major in marine science requires the successful completion of the following courses outside the major: Math - Select one of the following: 4 MATH 125 Calculus I MATH 14Honors Calculus I Physics I - Select one of the following: 4 PH 101 General Physics I PH 105 General Physics W/Calc I PH 125 Honors Gen Ph W/Calculus Physics II - Select one of the following: PH 102 General Physics II PH 106 General Physics W/Calc II PH 126 Honors Gen Ph W/Calculus II **Total Hours** 66 **Elective Course List** Hours **Biological Science Elective Options: BSC 300** Cell Biology 3 3 BSC 301 Cell Biology Laboratory 3 BSC 303 Field Zoology 3 **BSC 310** Microbiology 3 BSC 311 Microbiology II 2 BSC 312 Microbiology Lab 3 BSC 313 Gen Bacteriology Lab BSC 315 3 Genetics BSC 320 4 Freshwater Studies **BSC 340** Principles of Nat. Res. Cons. 3 Plant Biology 4 BSC 360 BSC 371 **Biology of Lower Plants** 4 4 **BSC 373** Vertebrate Zoology BSC 380 Intro Stats Biology 3 3 **BSC 386** General Ecology Lab Honors Thesis Research A 1 to 8 BSC 390 BSC 391 Tutorial In Biol Science A 1-2 Biology Outreach A BSC 393 2 Resident Study A BSC 396 1-6 Undergraduate Research A **BSC 398** 1-4 BSC 399 Presentation of UG Research A 2 Vertebrate Funct Morphol 4 **BSC 400** BSC 403 Intro To Bsc Instruction A 2 Honors Bsc Instruction A 2 **BSC 404 BSC 407** Honors Seminar In Bsc A 1 BSC 411 Phage Discovery Laboratory 3 3 BSC 412 Limnology BSC 415 Wetland Ecology 3 3 BSC 416 Disease Ecology BSC 417 **Environmental Modeling** 3 **BSC 420 Principles Of Systematics** 4 **BSC 426** Computational Biology Lab 3

Footnotes

A The department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. Only 4 credit hours of these courses can be applied to the marine science major or minor.

An additional four hours may be applied toward the requirement for 120 hours for the degree. BSC 409 Pre-Health Apprenticeship I and BSC 410 Pre-Health Apprenticeship II are not applicable to the major in marine science.

A maximum of 12 hours of 100-level biology courses (BSC 108 Intro Biology Non Maj I, BSC 109 Intro Biology Non Maj II, BSC 114 Principles Of Biology I, BSC 115 Laboratory Biology I, BSC 116 Principles Biology II, BSC 117 Laboratory Biology II, BSC 118 Honors General Biology I or BSC 120 Honors Gen Biology II) may be applied to degree requirements.

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College, and University requirements.

Grade Point Average

A 2.0 grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

Required Minor

The marine science major does not require a minor.

Prerequisites

Prerequisites for all BSC courses at the 300- and 400-level must be passed with a minimum grade of C-.

Restrictions on Course Attempts

No undergraduate course offered by the Department of Biological Sciences may be attempted more than three times. Mid-semester withdrawal (any withdrawal that results in a final grade of W) is not considered an attempt. Students who, in three attempts, fail to pass a required course or fail to make a C- or better in a course that is a prerequisite for a required upper level course may no longer major in Marine Science.