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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. Most students opt to take their courses at the Dauphin Island Sea Lab, on Dauphin Island, AL, as the courses offered were developed to meet the degree requirements.

Marine Science Requirements

Marine Science Required Courses Ho			Hours	
Core Requirements				
Select one of the following:				
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 o	r The Earth Through Time			
GEO 10	5 Sustainable Earth			
Other Require	d Courses		7	
GEO 101	The Dynamic Earth			
BSC 385	Ecology and Evolution			
Marine Scien	ce Courses			
MS 304	Marine Geology		4	
MS 306	Marine Biology		4	
MS 448	Intro Oceanography		4	
Marine Science	ce 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 BSC 380	Statistical Data Analysis Intro Stats Biology			
Upper Division Electives in BSC or MS				
Select from the Elective Course List below.				
		Credit Hours Subtotal:	54	

Required Ancillary Courses:

MATH 125 Calculus I

Math - Select one of the following:

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:

	or		
	MATH 1	⁴ Honors Calculus I	
Pł	nysics I - Se	lect 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:			4
	PH 102	General Physics II	
	PH 106	General Physics W/Calc II	
	PH 126	Honors Gen Ph W/Calculus II	
Total Hours			66

Total Hours	•	66
Elective Co	urse List	Hours
Biological S	Science Elective Options:	
BSC 300	Cell Biology	3
BSC 301	Cell Biology Laboratory	3
BSC 303	Field Zoology	3
BSC 304	Field Botany	3
BSC 305	Introduction to Neuroscience	3
BSC 310	Microbiology	3
BSC 311	Microbiology II	3
BSC 312	Microbiology Lab	2
BSC 313	Gen Bacteriology Lab	3
BSC 314	Dendrology	3
BSC 315	Genetics	3
BSC 320	Freshwater Studies	4
BSC 340	Principles of Nat. Res. Cons.	3
BSC 360	Plant Biology	4
BSC 371	Biology of Lower Plants	4
BSC 373	Vertebrate Zoology	4
BSC 380	Intro Stats Biology	3
BSC 386	General Ecology Lab	3
BSC 390	Honors Thesis Research ^A	1 to 8
BSC 391	Tutorial In Biol Science ^A	1-2
BSC 393	Biology Outreach ^A	2
BSC 396	Resident Study ^A	1-6
BSC 398	Undergraduate Research ^A	1-4
BSC 399	Presentation of UG Research ^A	2
BSC 400	Vertebrate Funct Morphol	4
BSC 401	Molecular Ecology	3
BSC 403	Intro To Bsc Instruction ^A	2
	. Δ	

Honors Bsc Instruction A

Honors Seminar In Bsc A

Limnology

Phage Discovery Laboratory

BSC 404

BSC 407 BSC 411

BSC 412

BSC 481	Adv Biostatistics with R	3			
BSC 482	Conservation Biology	3			
BSC 483	Evolution	3			
BSC 484	Aquatic Biology Seminar	1			
BSC 485	Found Forest Res and Conserv	4			
BSC 487	Biogeography	3			
BSC 488	Research Seminars in Biology	1			
BSC 490	Stream Ecology	4			
BSC 494	Honors Signal Trans Neuroby	3			
BSC 497	Special Topics	1-4			
Marine Science Elective Options:					
MS 408	Marine Invertebrate Zoology	4			
MS 419	Marine Ecology	4			
MS 433	Coastal Zone Management	2			
MS 452	Marine Vertebrate Zoology	4			
MS 453	Marine Botany	4			
MS 497	Special Topics	1 to 4			

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.