BA/BS MAJOR IN MARINE BIOLOGY

Requirements for a Bachelor of Arts or Bachelor of Science Degree with a Major in Marine Biology

Additional Graduation Requirements (https://catalog.una.edu/undergraduate/academic-procedures-requirements/graduation-requirements/)

Code	Title	Hours
General Education Component (https://catalog.una.edu/undergraduate/academic-procedures-requirements/general-education-component/)		
Area I (Written Composition)		6
Area II (Humanities and Fine Arts) [1]		12
Area III (Natural, Sciences and Mathematics) included in required courses		
Area IV (History, Social and Behavioral Science)		12
Area V included in required courses		
Major Core Requirements		**26**
BI 111	Principles of Biology	
BI 112	Principles of Biology	
BI 200W	Biological Literature	
BI 306	Genetics	
BI 307	Microbiology	
BI 312	Evolution	
BI 375	Cell Biology	
BI 498	Senior Assessment Seminar	
Organismal Biology (Plants)		**4**
BI 429	Marine Botany (at Dauphin Island Sea Lab)	
Organismal Biology (Animals)		**8**
BI 403	Marine Invertebrate Zoology (at Dauphin Island Sea Lab)	
BI 408	Marine Vertebrate Zoology (at Dauphin Island Sea Lab)	
Ecology		**4**
BI 412	Marine Ecology (Dauphin Island Sea Lab)	
Prescribed Supporting Courses		**30-34**
CH 111 & 111L	General Chemistry and General Chemistry Laboratory	
CH 112 & 112L	General Chemistry and General Chemistry Laboratory	
CIS 125	Business Applications of Microcomputer Software	
or CS 135	Computer Skills for Problem-Solving	
MA 345	Applied Statistics I	
or BI 333	Biostatistics	
MA 112 & MA 113	College Algebra and College Trigonometry	
or MA 115	Pre-Calculus Algebra and Trigonometry	
MA 121 & MA 122	Calculus for Business and Life Sciences I and Calculus for Business and Life Sciences II	
or MA 125	Calculus I	
PH 241	General Physics I	
PH 242	General Physics II	
Select one of the following course blocks:		**15-17**
Environmental GIS (16-17 hours)		
GE 184	Digital Earth	
GE 384	Geographic Information Systems	
GE 487	Geography Capstone Project	
Choose one course:		
GE 474	Web GIS	
GE 484	Advanced GIS	
GE 485	GIS Applications	
Choose one course:		
BI 421	Ecology	
ES 348	Earth Resources	
GE 404	Environmental Hazards	
SRM 345	Natural Resource Management	
Oceanography (15 hours)		
ES 131	Earth Science/Physical Geology	
or ES 133	Earth Science/Earth Systems	
Three courses required at Dauphin Island Sea Lab during Spring Semester:		
BI 343	Marine Geology (Marine Geology)	
BI 426	Experimental Oceanography (Experimental Oceanography)	
BI 405	Advanced Marine Technical Methods (Advanced Marine Tech Methods)	
Professional (16 hours)		
CH 311 & 311L	Organic Chemistry and Organic Chemistry Laboratory	
BI 441	Biochemistry	
Choose two courses from the following:		
BI 308	Marine Biology (Dauphin Island Sea Lab)	
BI 310	Comparative Vertebrate Morphology	
BI 311	Animal Physiology	
BI 406	Microbial Ecology and Evolution	
BI 411	Coastal Wetlands Ecology (Dauphin Island Sea Lab)	
BI 413	Marine Behavioral Ecology (Dauphin Island Sea Lab)	
BI 415	Molecular Biology	
BI 424	Marine Conservation Biology (Marine Conservation Biology at DISL)	
BI 425	Introduction to Oceanography (Dauphin Island Sea Lab)	
General Electives to bring total to 120		**0-3**
Total Hours		**120**

[1] For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the introductory level.