

MARINE FISHERIES - BS

This program provides educational opportunities in the biological sciences, with emphasis on marine management. Ecology, taxonomy, zoogeography, culture, and general biology of commercial species are emphasized. Course offerings are structured to provide not only a strong basis of formal academic instruction but also considerable hands-on field and collection experience by taking advantage of the coastal location of the university. A strong preparation in the sciences is recommended. Marine Fisheries graduates are prepared to work as fisheries managers or research biologists for state and federal agencies, ecological consulting firms, and educational institutions. Qualified degree recipients may undertake postgraduate studies in resource management, mariculture, systematics, and fisheries economics.

Program Requirements

First Year

Fall		Semester Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ENGL 104	Composition and Rhetoric	3
MARB 101	Succeeding in Science ¹	3
MATH 147 or MATH 151	Calculus I for Biological Sciences or Engineering Mathematics I	4
Semester Credit Hours		14

Spring		Semester Credit Hours
BIOL 111	Introductory Biology I ^{1,2}	4
CHEM 120	Fundamentals of Chemistry II	4
MARS 102	Earth and Ocean Science ¹	4
Select one of the following:		4
MATH 148	Calculus II for Biological Sciences	
MATH 150	Functions, Trigonometry and Linear Systems	
MATH 152	Engineering Mathematics II	
Semester Credit Hours		16

Second Year

Fall		Semester Credit Hours
CHEM 227	Organic Chemistry I	3
CHEM 237	Organic Chemistry Laboratory	1
MARB 215	Marine Zoology ¹	4
PHYS 201	College Physics	4
POLS 206	American National Government	3
Semester Credit Hours		15

Spring		Semester Credit Hours
CHEM 228	Organic Chemistry II	3
CHEM 238	Organic Chemistry Laboratory	1
MARB 311	Ichthyology ¹	4
PHYS 202	College Physics	4
POLS 207	State and Local Government	3
Semester Credit Hours		15

Third Year

Fall		Semester Credit Hours
MARB 301	Genetics ¹	4

MARB 303	Biostatistics ¹	4
MARB 315	Natural History of Vertebrates ¹	4
MARB 320	Fisheries Techniques ¹	4
Semester Credit Hours		16

Spring		Semester Credit Hours
ECON 202	Principles of Economics	3
MARB 435	Marine Invertebrate Zoology ^{1,3}	4
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Marine fisheries elective ⁴		4
Semester Credit Hours		17

Fourth Year

Fall		Semester Credit Hours
MARB 425	Marine Ecology ¹	4
MARB 460	Fisheries Population Dynamics ¹	4
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Marine fisheries elective ⁴		4
Semester Credit Hours		15

Spring		Semester Credit Hours
MARB 445	Marine Fisheries Management ^{1,3}	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communications)		3
Marine fisheries elective ⁴		3
Semester Credit Hours		12
Total Semester Credit Hours		120

¹ Indicates required courses in the Marine Fisheries major. These courses will be used to compute the major GPA.

² A grade of C or better is required before advancing to upper level courses.

³ Designated writing intensive course.

⁴ Select from MARB 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/marb/>).

The total hours may be increased if the student is required to take remedial math, remedial English, foreign language, Cultural Discourse or International and Cultural Diversity courses.

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 3-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements. The 3-hour University Core Curriculum requirement for

Cultural Discourse may be met with courses used to satisfy other degree requirements.