

Marine Science Certificate

The Marine Science transcript-recognized certificate enables students to explore the field of marine science. The certificate provides a foundation of basic competency in the fundamentals of marine science, along with specialized upper-division coursework in aquatic science. The knowledge of aquatic science that students gain through the certificate will help them to be competitive for employment or graduate study in this field.

Total Hours Required: 19

Requirements

Requirements are listed in the table below. Additional requirements may follow the table, so be sure to read the entire page. Some required courses listed below may also satisfy [General Education](#) requirements, including [Core Curriculum](#). Students should also review the [University's Undergraduate Minor and Certificate Requirements and Policies](#).

Code	Title	Hours
MNS 310	Fundamentals of Marine Science	3
MNS 320	Marine Ecology	3
MNS 120L	Laboratory Studies in Marine Ecology	1
Hours chosen from:		3
BIO 311C	Introductory Biology I	
BIO 311D	Introductory Biology II	
BIO 315H	Advanced Introduction to Genetics: Honors	
CH 301	Principles of Chemistry I	
CH 301C	Foundations of Chemistry I	
CH 302	Principles of Chemistry II	
CH 302C	Foundations of Chemistry II	
Hours chosen from: (at least six hours must be from the Marine Science Institute in Port Aransas, Texas)		9
MNS 440	Limnology and Oceanography	
MNS 152L	Topics in Principles of Marine Science: Laboratory Studies	
MNS 252L	Topics in Principles of Marine Science: Laboratory Studies	
MNS 152S	Topics in Principles of Marine Science: Undergraduate Seminar	
MNS 252S	Topics in Principles of Marine Science: Undergraduate Seminar	
MNS 152T	Principles of Marine Science: Special Topics	
MNS 252T	Principles of Marine Science: Special Topics	
MNS 348.1	Training Cruise(s): Research in Biological Oceanography	
MNS 352	Topics in Principles of Marine Science	
MNS 352C	Estuarine Ecology	
MNS 352D	Marine Botany	
MNS 352E	Marine Conservation Biology	
MNS 353	Topics in Marine Science	
MNS 354	Marine Invertebrates	
MNS 354C	Biology of Fishes	
MNS 354E	Aquatic Microbiology	
MNS 354J	Marine Chemistry	
MNS 354Q	Marine Environmental Science	
MNS 354T	Biological Oceanography	

MNS 354U	Biology of Sharks, Skates, and Rays
MNS 355	Microplastics in Coastal Environments
MNS 355C	Physiology of Fishes
MNS 356	Ecosystem Oceanography
MNS 357	Marine Phytoplankton Diversity
MNS 358	Marine Geocology
MNS 367K	Human Exploration and Exploitation of the Sea
MNS 170	Special Studies in Marine Science
MNS 270	Special Studies in Marine Science
MNS 370	Special Studies in Marine Science

Total Hours

19

Additional Requirements

- Grades of at least C- required in all courses. Most of the courses in the certificate contain prerequisites of one year of general biology and one year of general chemistry.
- Bachelor of Science in Biology: Option III Marine Science majors are not eligible to earn the certificate.
- Environmental Science majors may count no more than nine hours of degree requirements toward the Marine Science certificate.