

UNIVERSITY STUDIES - BS, OCEANS AND ONE HEALTH CONCENTRATION

Oceans and One Health is an interdisciplinary concentration that allows the student to explore the intersection between human, animal, and environmental health specific to the coastal environment. This degree program is intended for students who wish to pursue medical, dental, veterinary, or health-professional degrees or those interested in health issues in urbanized coastal communities. It is a flexible but robust program that provides opportunities for students to have a solid background in the physical and biological sciences, environmental science, and/or health-related disciplines. Students can choose their focus from a diverse list of concentration electives and minors to tailor their degree to their professional goals.

Through a partnership with the University of Texas Medical Branch (UTMB) in Galveston our Oceans and One Health students who apply and are admitted to UTMB after completing 95 hours at TAMUG have the option to obtain a minor in Clinical Laboratory Sciences, which includes the first semester coursework for the M.S. degree in Clinical Laboratory Sciences at UTMB.

This concentration is housed in the Foundational Sciences Department.

Students in this program may choose to pursue secondary (grades 8 thru 12) science teaching certification. Please consult with Department of Foundation Sciences.

Program Requirements

Code	Title	Semester Credit Hours
MARS 360	Biochemistry	4
MARS 428	Coastal Development and Human Health	3
OCNG 251 & OCNG 252	Oceanography and Oceanography Laboratory	4
Select one of the following:		3
MARB 303	Biostatistics	
SCMT 303	Statistical Methods	
STAT 201	Elementary Statistical Inference	
STAT 303	Statistical Methods	
Select from the following:		10
BIOL 351	Fundamentals of Microbiology	
CHEM 383	Chemistry of Environmental Pollution	
MARB 301	Genetics	
MARB 310	Introduction to Cell Biology	
MARB 401	Physiological Ecology of Marine Mammals	
or MARB or Comparative Animal Physiology		
MARB 414	Toxicology	
MARB 430	Coastal Plant Ecology	

MARS 325 Introduction to GIS for Marine Sciences

OCNG 420 Biological Oceanography

University and College Requirements

BIOL 111	Introductory Biology I	4
CHEM 119	Fundamentals of Chemistry I	4
CHEM 120	Fundamentals of Chemistry II	4
ENGL 104	Composition and Rhetoric	3
PSYC 107	Introduction to Psychology	3
POLS 206	American National Government	3
POLS 207	State and Local Government	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		6
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics)		6
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Minor 1		15-18
Minor 2		15-18
General electives		15-21
Total Semester Credit Hours		120

All University Studies degree plans require at least 120 hours for completion. A University Studies Degree consists of a concentration of 21-24 hours and two minors of 15-18 hours each. Specific courses may be required for the completion of the hours in the concentrations and minors. Some concentrations and minors contain required courses that have additional prerequisites. One of the two minors must be completed in a college outside of the college that provides the concentration for the student's degree.