UNIVERSITY STUDIES - BS, OCEANS AND ONE HEALTH CONCENTRATION

Oceans and One Health is an interdisciplinary concentration that allows the student to explore human, animal or environmental health issues associated with the marine and coastal communities. Students may pursue this degree program as a pathway to Medical, Dental or Veterinary School or as a stand-alone degree to address any of a number of health-related issues that result from urbanization of coastal areas or increased development of marine environments. The curriculum is designed to be flexible so that students can choose their focus from the diverse list of concentration electives. It also is rigorous enough to provide students headed for professional or graduate school with a solid background in health-related disciplines and environmental sciences. As a part of the University Studies major the Oceans and One Health concentration can be a starting point for several health related graduate programs.

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 during their junior year at TAMUG have the option to obtain a minor in Clinical Laboratory Sciences, which includes the first semester of coursework for a masters of Clinical Laboratory Sciences from UTMB.

This concentration is housed in the Marine Sciences Department (http://catalog.tamu.edu/undergraduate/galveston/marine-sciences/#majorstext).

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>OCNG 251</td>
<td>Oceanography</td>
<td>4</td>
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<tr>
<td>&amp; OCNG 252</td>
<td>Oceanography Laboratory</td>
<td></td>
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<tr>
<td>MARS 360</td>
<td>Biochemistry</td>
<td>4</td>
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<tr>
<td>MARS 428</td>
<td>Coastal Development and Human Health</td>
<td>3</td>
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</tbody>
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Select statistics from:

- MARB 303 Biostatistics
- SCMT 303 Statistical Methods
- STAT 201 Elementary Statistical Inference
- STAT 303 Statistical Methods

Directed electives, select 10 credit hours from:

- BIOL 351 Fundamentals of Microbiology
- CHEM 383 Chemistry of Environmental Pollution
- MARB 301 Genetics
- MARB 414 Toxicology
- MARB 430 Coastal Plant Ecology
- MARB 325 Introduction to GIS for Marine Sciences
- OCNG 420 Biological Oceanography

University and College Requirements

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<tr>
<th>Code</th>
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<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td>3</td>
</tr>
</tbody>
</table>

Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics)

CHEM 101 Fundamentals of Chemistry I & CHEM 111 and Fundamentals of Chemistry Laboratory I
CHEM 102 Fundamentals of Chemistry II & CHEM 112 and Fundamentals of Chemistry Laboratory II

Biol 111 Introductory Biology I
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)

Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)

PSYC 107 Introduction to Psychology
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)
POLS 206 American National Government
POLS 207 State and Local Government

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.