

# Bachelor of Science in Marine Biology

## 2014 - 2015 Catalog

### The University of Texas at Brownsville and Texas Southmost College

This document provides a list of the UTB/TSC courses required for the major and their equivalent UTRGV courses.

A significant number of courses have changed their course prefix, number, and title.

For any additional information, please visit the Academic Advising Center.

#### ***UTB/TSC Courses***

#### ***Course Equivalents at UTRGV***

#### **GENERAL EDUCATION CORE COURSES REQUIRED FOR THE MAJOR**

##### **020 – Mathematics (†)**

MATH 1342 Elementary Statistical Methods

MATH 1342 Elementary Statistical Methods

##### **030 – Natural Sciences**

CHEM 1411 General Chemistry I

CHEM 1311/1111 General Chemistry I/Lab I

CHEM 1412 General Chemistry II

CHEM 1312/1112 General Chemistry II/Lab II

#### **A – GENERAL EDUCATION CORE – 42 HOURS**

42 hours of General Education Core

#### **B – MAJOR REQUIREMENTS – 54 HOURS**

##### **1 – Core Courses for the Major – 23 hours**

BIOL 1306/1106 Biology for Science Majors I/Lab I

BIOL 1406 General Biology I

BIOL 1307/1107 Biology for Science Majors II/Lab II

BIOL 1407 General Biology II

BIOL 3303/3103 Genetics/Lab

BIOL 3413 Genetics

BIOL 3309/3109 Ecology/Lab

BIOL 3409 Ecology

BIOL 3312/3112 Cell and Molecular Biology/Lab

BIOL 3412 Cell Biology

BIOL 4301 Evolution

BIOL 4301 Evolution

##### **2 – Marine Biology Core – 11 hours**

BIOL 2310 Marine Processes and Ecosystems Dynamics

BIOL 2310 Marine Processes and Ecosystem Dynamics

BIOL 3320 Marine Biochemistry

BIOL 3320 Marine Biogeochemistry

BIOL 3430 Field Methods and Analyses in Marine Biology

BIOL 3430 Field Methods and Analysis in Marine Biology

BIOL 4101 Marine Biology Seminar

BIOL 4401 Marine Biology Seminar

##### **3 – Marine Biology Electives – 20 hours**

BIOL 3314/3114 Invertebrate Zoology/Lab

BIOL 3414 Invertebrate Zoology

BIOL 4302/4102 Marine Zoology/Lab

BIOL 4402 Marine Zoology

BIOL 4304/4104 Ichthyology/Lab

BIOL 4404 Ichthyology

BIOL 4310/4110 Marine Botany/Lab

BIOL 4410 Marine Botany

BIOL 4327/4127 Coastal Ecology/Lab

BIOL 4430 Coastal Ecology

BIOL 4370 Topics in Biology

BIOL 4398 Special Topics I

BIOL 4399 Research Problems in Biology

BIOL 4399 Research Problems in Biology

BIOL 4411 Coral Reef Ecology

BIOL 3416 Coral Reef Ecology

GEOG 4440 Geographic Information Systems

\*\*GEOG 3408 Introduction to Geographic Information Systems

#### **C – SUPPORT COURSES – 24 HOURS**

CHEM 2423 Organic Chemistry I

CHEM 2323/2123 Organic Chemistry I /Lab I

CHEM 2425 Organic Chemistry II

CHEM 2325/2125 Organic Chemistry II /Lab II

MATH 2413 Calculus I

MATH 2413 Calculus I

PHYS 1401 College Physics I

PHYS 1401 General Physics I

PHYS 1402 College Physics II

PHYS 1402 General Physics II

ENVR 3405 Oceanography

ENVR 3405 Oceanography

#### **TOTAL CREDIT HOURS FOR GRADUATION – 120**

#### **TOTAL ADVANCED HOURS (minimum) – 36**

*\*\* Course substitutions will be granted if course is completed with minimum grade required.*

Admission requirements to this program: BIOL-1406, BIOL-1407, CHEM-1411, MATH-2412 (or higher) with “C” or better grade in all these courses and Departmental approval.

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† Grade of “C” or better is required for graduation.