prerequisite, required before taking **Physics. Students should consider** taking this course in the summer after their first or second year.

- •College Algebra is a hidden

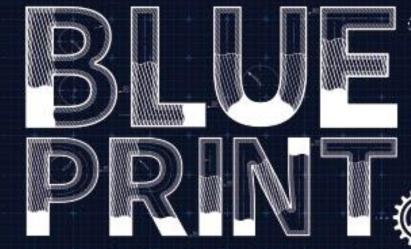
956-882-5040

Leticia Contreras Leticia.contreras01@utrgv.edu

Marine Biology Coordinator

Department Contact:

MARINE BIOLOGY (BS) Catalog: 2019-20 ****** **COLLEGE OF SCIENCES**



UTRio Grande Valley

The curriculum takes full advantage of the Rio Grande Valley's unique physical location at the intersection of temperate and tropical climatic divides, and proximity to the Gulf of Mexico. Unifying laboratory/field courses with the unique environments of South Texas directly engage students in the discovery process and in analyzing and interpreting data. The Marine Biology program requires 120 hours of coursework including a major-specific marine biology core and supporting courses aimed at interrelating the principles of physics, geology and geophysics, mathematics, chemistry, and biology to the marine environment. Upper-level electives include Coral Reef Ecology, Marine Zoology, Ichthyology, Marine Animal Field Studies, as well as

Degree Info

The School of Earth, Environmental, and Marine

Sciences offers a B.S. in Marine Biology, which is

designed to prepare students who are seeking a career

or graduate studies in marine biology and related

marine science disciplines. Undergraduates in this

major will develop an understanding of the biology of

marine organisms and the biological and physical

processes that affect these organisms, their

populations, and their coastal and oceanic ecosystems.

supervised independent research courses.

Additional Info

Pay attention to prerequisites and

course sequences. Some of the

major foundational courses are

To graduate, students must have an

overall GPA of 2.0 AND a 2.5 GPA as

offered only once per year.

a Marine Biology major.

Contact Info

Director- School of Earth,

Environmental. and Marine Sciences

Dr. David Hicks

David.Hicks@utrgv.edu

Associate Director- School of Earth,

Environmental, and Marine Sciences

Dr. Hudson DeYoe

Hudson.Deyoe@utrgv.edu

SECOND YEAR

FIRST YEAR

FOURTH YEAR

BIOL 1407

Choose 1

UNIV 1301

Choose 1

Choose 1

A151 HTAM

General Biology I BIOL 1406 Communication Choose 1

BIOL 3412 Cell Biology	
BIOL 3415 Molecular Biology <u>or</u>	Choose 1

Field Methods and Analysis MARS 3430

in Marine Biology

Marine Biology Elective 33XX-43XX

Marine Biology Elective 33XX-43XX

Biology Major Advanced Elective

Marine Biology Seminar 34XX-44XX

Integrative/Experiential Learning Choose 1 Marine Biology Elective 34XX-44XX Marine Biology Elective 33XX-43XX MARS 4401

THIRD YEAR

Organic Chemistry II CHEM 5352 Introduction to Biostatistics EAET HTAM Εςοιοβλ BIOF 3409

2019-2020 ACADEMIC PLAN

CHEM 5152

Marine Biology Elective Organic Chemistry II Lab

34XX-44XX

General Physics I Biological Evolution **BIOF 3301**

Oceanography **ENVR 3405** Marine Biogeochemistry **MARS 3320 PHYS 1401**

Major Advanced Elective MARS 41XX

> General Chemistry II **CHEW 1315**

PHIL 1366 American History Choose 1 Marine Processes and Ecosystem Dynamics **MARS 2310** General Chemistry II Lab CHEW 1115

Social and Behavioral Sciences Philosophy & History of Science & Tech.

Choose 1

Organic Chemistry I Lab **CHEM 5153** Organic Chemistry I **CHEW 7373**

American History Genetics

Integrative/Experiential Learning Choose 1 **BIOF 3413**

Choose 1

General Chemistry I Lab CHEW 1111 General Chemistry I **CHEW 1311**

General Biology II

Learning Framework

Government/Political Science

Communication

Creative Arts

College Algebra

Government/Political Science Choose 1

Courses in red are part of the General Education Core Curriculum (GEC).

"Choose 1" Indicates course options. If options are not listed, please review the General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans.

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND	CAREE
MILESTONES	 □ UTRGV has a Writing Center and a Learning Center. Make it a point to visit them! □ Complete your core English classes (section 010) during your first year. □ Complete 30 credit hours every year in order to graduate in 4 years. □ Aim for a GPA of 2.5. □ Take MATH 1343 in your first year. 	 □ Aim for a GPA of 2.5. □ Complete major foundation classes, such as MARS 2310 and BIOL 3413. □ Complete 30 credit hours. 	 □ Aim for a GPA of 2.5. □ Complete 30 credit hours, including major foundation classes, such as BIOL 3409, MARS 3320, BIOL 3301, and ENVR 3405. □ Have you landed an internship or acquired research experience? This is the year to make it happen. 	 □ Aim for a GPA of 2.5. □ "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center! □ Register for your Senior Seminar course: MARS 4401. □ Complete at least 30 credit hours to graduate, including major foundations classes MARS 3430 and BIOL 3412 or BIOL 3415. □ Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment. 	 Marine Biology/Biolo Oceanograph Ecology and e Conservation Consulting Environmental protection/Re
ADVICE & SUPPORT	 □ Meet with your academic advisor and bring your orientation folder with you to every session! □ Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors. □ Visit a faculty member during their office hours and ask a question about class. □ Classes fill up fast. When registration opens, be sure to register on the first day for your group. □ Cold or flu getting you down? We have Student Health 	 □ Want to explore different careers? Check out MyMajors! □ Come ready with course suggestions and questions when you visit your academic advisor. □ Visit the Communication Hauser Lab for help with your speeches. □ Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available 	 Seek out research opportunities within your major and join a professional organization such as The American Fisheries Society or the Oceanography Society. Check DegreeWorks to make sure you are on track for graduation next year. Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center. 	 □ Engage in an independent study project or an academic internship to complement your major, such as the Texas Parks and Wildlife Department, Sea Turtle, Inc., or the National Oceanographic and Atmospheric Administration. □ Discuss future plans with your faculty mentor or advisor that includes employment, finances, and other life goals. □ Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track. 	 Environmental remediation/ Compliance Fisheries man Marine biotec Molecular biotec Marine policy
APPLY WHAT YOU LEARN	Services on campus with free office visits. Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office. Participate in a campus-sponsored community service project. Ask a student in class to study with you.	☐ To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. ☐ Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.	☐ Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!☐ Sharpen your writing skills! Visit the Writing Center or become the secretary for your organization.	 □ Continue to present research or creative works at the Engaged Scholar Symposium or at the College of Sciences Annual Conference. □ Set up an informational interview with an individual (especially an alumnus or alumna) currently in the field you aspire to work in. 	 Mariculture/ Aquaculture Hatchery ope management Aquarium ope management
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	 Set up your profile on the Engagement Zone through My.UTRGV.edu. Attend a diversity based campus or community event (e.g. MLK Day of Service, Earth Day, or Beach Clean-up). Attend a departmental program such as an OCES graduate student thesis defense. Join a student organization! Consider looking into Gorgas Science Society or visit VLink (utrgv.edu/vlink) for options. 	 □ Look at study abroad opportunities! Consider going to Belize to study Coral Reef Ecology! □ Check out a cultural campus or community event such as HESTEC or FESTIBA. □ Join another student organization. Perhaps the Environmental Awareness Club or the American Association of University Women in STEM or visit VLink for options. □ Check out a campus event that offers free lunchbring a friend! 	□ Consider serving on a campus life/community committee or become a student leader and make a difference. Visit VLink or speak with your Student Government Association for more information! □ Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.	 Identify employers of interest and seek them out at job fairs, online, at on-campus information sessions, staffing agencies, etc. The Career Center can help. Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab. 	 Natural resour management Technical writ Wildlife mana Research Coastal/Wetlater restoration
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Career Connection icon: (My.UTRGV.edu). Got summer plans? Visit Career Center and ask about places to do some job shadowing. Research shows that students who work on campus perform better than those who work off campus. Look for a job on the Career Center portal! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	 □ Update your resume in Career Connection and have it reviewed. □ Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships. □ Explain to someone how your academic program aligns with your strengths and interests. 	 □ Check out the SEEMS website and the UTRGV Marine and Coastal Sciences Facebook page for postings on career/graduate school. □ Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice! □ When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants! 	 □ Have you received your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career Center, and get on LinkedIn. □ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc. □ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services! □ Remember to do your exit loan counseling on studentloans.gov. 	For additional inf Career Center we check out "What With This Ma

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nfo, visit the website and nat Can I Do Major?" <u>careercenter</u>