The Interdisciplinary Bachelor of Science degree in Environmental Science prepares graduates for careers at local, state and federal government agencies, non-profit organizations, and environmental consulting firms. Additionally, graduates of this program are prepared to continue onto graduate studies in order to pursue research and scholarship opportunities. The program core focuses on key environmental issues while the restricted electives allow the students to choose to focus on areas of interest to the individual student.

A – GENERAL EDUCATION CORE – 42 HOURS
Students must fulfill the General Education Core requirements. The courses listed below satisfy both degree requirements and General Education core requirements.

Required

020 - Mathematics – 3 hours
MATH 2413 Calculus I (or MATH 2487 Honors) three-hour lecture

030 - Life and Physical Sciences – 6 hours
GEOL 1403 Physical Geology three-hour lecture
GEOL 1404 Historical Geology three-hour lecture

090 - Integrative and Experiential Learning – 2 hours
GEOL 1403 Physical Geology one-hour lab
GEOL 1404 Historical Geology one-hour lab

B – MAJOR REQUIREMENTS – 46 HOURS (38 advanced)

1 – Environmental Science Core – 26 hours (18 advanced)
ENVR 1401 Introduction to Environmental Science I
ENVR 1402 Introduction to Environmental Science II
ENVR 3301 Natural Resources Conservation
ENVR 3302 Environmental Ethics
ENVR 3303 Research Methodology and Data Analysis in Environmental Sciences
ENVR 4301 Environmental Regulations
ENVR 4302 Environmental Impact Analysis
ENVR 4303 Environmental Sciences Research Project

2 – Advanced Electives – 20 hours (20 advanced)
Students may choose any advanced electives in BIOL, CHEM, ENVR, or GEOL. List of recommended courses available within Department. Recommended courses include:
BIOL 3404 Conservation Biology
BIOL 3409 Ecology
BIOL 3414 Invertebrate Zoology
BIOL 4170 Laboratory Topics in Biology
BIOL 4316 Environmental Toxicology
BIOL 4370 Special Topics II
BIOL 4388 Global Change Ecology
BIOL 4402 Marine Zoology
BIOL 4403 Introduction to Remote Sensing Technology
BIOL 4404 Ichthyology
BIOL 4409 Herpetology
BIOL 4410 Marine Botany
BIOL 4412 Ornithology
BIOL 4414 Plant Taxonomy
BIOL 4415 Entomology
BIOL 4416 Mammalogy
BIOL 4419 Aquatic Entomology
BIOL 4423 Wildlife Ecology and Management
BIOL 4429 Agroecology
BIOL 4430 Coastal Ecology
CHEM 3303 Biochemistry I
CHEM 3103 Biochemistry I Lab
CHEM 3304 Physical Chemistry I
CHEM 3104 Physical Chemistry I Lab  
CHEM 3305 Physical Chemistry II  
CHEM 3105 Physical Chemistry II Lab  
CHEM 3401 Environmental Chemistry  
CHEM 4304 Instrumental Analysis  
CHEM 4104 Instrumental Lab  
GEOL 3401 Geomorphology  
GEOL 3402 Hydrologic Systems  
GEOL 3408 Introduction to Geographic Information Systems  
GEOL 4302 Environmental Geology  
GEOL 4401 Advanced Geographic Information Systems  
GEOL 4403 Sedimentology and Stratigraphy  
GEOL 4404 Coastal Geology  
ENVR 3405 Oceanography  
ENVR 4304 Environmental Sciences Internship  
ENVR 4370 Topics in Environmental Sciences  
ENVR 4170 Topics in Environmental Sciences Lab

C – ELECTIVES – 32 HOURS (4 advanced)

1 – Support Courses – 27 hours
   BIOL 1406 General Biology I (or BIOL 1487 Honors)
   BIOL 1407 General Biology II (or BIOL 1488 Honors)
   CHEM 1311 General Chemistry I
   CHEM 1111 General Chemistry I Lab
   CHEM 1312 General Chemistry II
   CHEM 1112 General Chemistry II Lab
   PHYS 1401 General Physics I
   PHYS 1402 General Physics II
   MATH 1342 Elementary Statistical Methods (or MATH 1387 Honors)

2 – Mathematics – 1 hour
   MATH 2413 Calculus I (or MATH 2487 Honors) one-hour lecture

2 – Free Electives – 4 hours (4 advanced)

TOTAL CREDIT HOURS FOR GRADUATION – 120 HOURS
TOTAL ADVANCED HOURS – 42 HOURS

ADMISSION, PROGRESSION, AND GRADUATION REQUIREMENTS, if applicable:

Graduation requirements
1. Minimum of 73 hours in Environmental Sciences major requirements restricted Environmental Sciences electives and support courses with an overall GPA of 2.5.
2. In addition to the graduation requirements listed in the UTRGV 2015-2017 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV Department of Writing and Language Studies, and/or up to six credit hours of college-level language coursework.