



ENVIRONMENTAL SCIENCE

Bachelor of Science

School of Mathematics, Science & Engineering

Program Overview

The Environmental Science degree program is designed for students who wish to receive a comprehensive environmental science education for the purpose of research into and management of Earth's natural resources, and for promotion of environmental protection of these resources for public health and welfare.

Professional School Opportunities

Environmental Science is an interdisciplinary program which prepares students for entering a wide variety of Master's and Doctoral programs such as ecology, forestry, conservation of natural resources, environmental assessment and education. With sufficient preparation in mathematics, the student has the opportunity to enter into graduate degree programs in environmental engineering and water resources engineering.

Career Opportunities

A student graduating from the Environmental Science program may find employment with local, state, or federal agencies that deal with the protection, management, and regulation of natural resources. Such agencies include the Environmental Protection Agency (EPA), the Texas Commission on Environmental Quality, Texas Parks and Wildlife, and other state and federal employers. Students may also find employment with private firms and companies involved with environmental engineering and environmental consulting that includes assessment, remediation, and environmental law.

Contact

Dr. Mike Maguigan
Environmental Science and Geology
School of Mathematics, Science & Engineering
University of the Incarnate Word
4301 Broadway, CPO #311
San Antonio, TX 78209
(210) 283-5047
maguigan@uiwtx.edu

Website

<http://www.uiw.edu/envsci>

continued on reverse side

Bachelor of Science in Environmental Science
SCHOOL OF MATH, SCIENCE, & ENGINEERING
2015-2017

Freshman Year: Fall		Hrs.
ENGL 1311 Composition I		3
CHEM 1301 Chemical Principles I		3
MATH 1311 Pre-Calculus		3
CIS 2330 Programming I, CIS 3660 Computer Science, or ENGR 2340 Computer Programming for Mathematics, Sciences and Engineering		3
SPAN 1311 Elementary Spanish I, or language other than English		3
Total hours		15
Sophomore Year: Fall		
GEOL 1401 Physical Geology, GEOL 1420 or METR 1430		4
PHYS 2305 Physics I		3
PHYS 2105 Physics I Lab		1
BIOL 1403 Diversity of Life & Lab or BIOL1403 Evolution, Ecology & Biodiversity		4
HIST 1311 World History		4
Total hours		16
Junior Year: Fall		
BIOL 3471 General Microbiology and Lab		4
PHIL 1381 Introduction to Philosophy		3
METR 3340 Hydrology		3
RELS 1310 Introduction to Theology		3
Elective		3
Total hours		16
Senior Year: Fall		
ENSC 4460 Research in Water Quality		4
BIOL/CHEM/GEOL/METR Advanced Elective		3
BIOL/CHEM/GEOL/METR Advanced Elective		3
ENSC 4315 Environmental Science Research		4
Total hours		14

Freshman Year: Spring		Hrs.
ENGL 1312 Composition II		3
CHEM 1302 Chemical Principles II		3
CHEM 1203L General Chemistry Lab		2
ENSC 1410 Environmental Science		4
MATH 2312 Calculus I		3
SPAN 1312 Elementary Spanish II, or language other than English		3
Total hours		18
Sophomore Year: Spring		
ENGL 2310 World Literature Studies		3
PHYS 2306 Physics II		3
PHYS 2106 Physics II Lab		1
BIOL 1402 Unity of Life & Lab		4
DWHP 1200 Dimensions of Wellness		2
PEHP Physical Education Activity		1
Total hours		14
Junior Year: Spring		
BIOL 3442 Ecology and Lab		4
METR 4315 Air Pollution Meteorology		3
Fine Arts Core		3
Social Science Core		3
BIOL/CHEM/GEOL/METR Advanced Elective		3
Total hours		16
Senior Year: Spring		
BIOL/CHEM/GEOL/METR Advanced Elective		3
PHIL/RELS 3000-4000		3
GEOL 3450 Environmental Geology		4
ENSC 3410 Research in Soil Conservation		4
Total hours		14

Core Curriculum - Total Hours 44
Major - Total Hours 79
Degree - Total Hours 123