

ACADEMIC DIVISION OF SCIENCES AND TECHNOLOGY			
Degree: DOCTOR IN PHILOSOPHY (PhD)		CURRICULUM:	
Créditos: 56		Since: 2017	
Program: ENVIRONMENTAL SCIENCES			
<p>Description: The PhD in Environmental Science draws heavily upon the biological, chemical, geological, and health sciences. Our students will acquire an extensive academic and research foundations necessary to evaluate, prevent, and remediate environmental problems to safeguard our natural resources. Our graduates will be able to share their scientific expertise with industries and government agencies on environmental issues as well as in the development of new methodologies, technologies, and strategies to protect the environment through research in academia.</p>			
COURSE CODE	COURSE TITLE	CREDITS	REQUISITES
Core Courses (17 credits)			
STAT 750	Experimental Design	3	STAT505 or Equiv.
ENSC 751	Environmental Laws, Ethics and Public Policy	3	None
ENSC 752	Water Quality Management	3	None
ENSC 753	Soil Management	3	None
ENSC 754	Air Quality Management	3	None
ENSC 755	Graduate Seminar I	1	None
ENSC 756	Graduate Seminar II	1	ENSC 755
Required Specialization Courses (18 credits Level 700, 800, 900)			
ECON 700	Environmental Economics	3	None
ENSC 706	Wildlife Management	3	None
ENSC 707	Environmental Geology	3	None
ENSC 709	Environmental Management and Planning		ENSC 763
ENSC 730	Solid Waste Management	3	None
ENSC 737	Renewable Energy Sources and Issues	3	None
ENSC 760	Hazardous Waste Operations and Emergency Response	3	None
ENSC 763	Environmental Evaluation	3	ENSC 751
ENSC 770	Classification and Characterization of Hazardous Waste	3	None
ENSC 790	Special Topics in Environmental Sciences	1-3	None
ENSC 839	Issues in Environmental Public Health	3	None
ENSC 841	Environmental Remediation	3	CHEM 221
ENSC 844	Environmental Biotechnology	3	None
ENSC 865	Environmental Toxicology	3	None
ENSC 901	Environmental Risk Assessment and Management	3	None
ENSC 902	Environmental Quality Indicators	3	None
ENSC 960	Biodiversity Conservation and Management	3	None
ENSC 992	Experimental Methods in Remediation	3	None
ENSC 995	Advanced Studies in Environmental Sciences	1-3	Advisor's Approval
BIOL 712	Applied Mycology	3	None
BIOL 713	Microbial Ecology	3	None
BIOL 843	Environmental Microbiology	3	BIOL320
BIOL 903	Ecology and Conservation of Natural Resources	3	
BIOL 914	Applied Tropical Botany	3	

BIOL 995	Advanced Studies in Environmental Biology	3	Advisor's Approval
BIOL 990	Experimental Microbiology	3	
CHEM 735	Environmental Chemical Analysis I	3	CHEM430 or Equiv.
CHEM 736	Environmental Chemical Analysis II	3	CHEM 735
CHEM 850	Environmental Catalysis	3	None
CHEM 852	Materials for Pollution Control	3	CHEM 463-464
CHEM 861	Nanotechnology	3	None
CHEM 953	Environmental Electrochemistry	3	None
CHEM 954	Adsorption and Ionic Exchange in Solid Materials	3	None
CHEM 960	Instrumental Methods for Material Characterization	3	None
CHEM 962	Advanced Environmental Chemical Analysis	3	None
CHEM 995	Advanced Studies in Environmental Chemistry	3	None
Research required courses (21 credits)			
ENSC 997	Doctoral Dissertation ¹	21	Advisor's Approval
TEST 800C	Comprehensive Examination	0	Advisor's Approval

- Students wishing to be admitted to doctoral program must meet the following requirements: Hold a Bachelor's degree or an equivalent degree in Science from an accredited institution of higher education and master degree. To take one of the tests of admission to graduate studies offered by the Educational Testing Service, such as the Graduate Studies Admission Test (EXADEP) or the Graduate Record Examination (GRE). Complete an interview process with the graduate committee.
- The minimum GPA is 3.00 in master degree.
Curriculum Vitae
Essay about professional and educative goals.
- The specify requirements depend of the bachelor concentration and master dregeree; in some cases the graduate committee could recommend undergraduate courses.
- The following basic courses STAT 505 and ENSC 500 will be recommend by the graduate committee. This courses are not belong to the master's program.
- The student will enroll variables research credits.¹

The following basic courses **STAT 505** and **ENSC 500** will be recommend by the graduate committee. This courses are not belong to the master's program.

ENSC500	Fundamentals of Environmental Sciences	3
STAT 505	Statistics as an Instrument in Research	3

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Program: ENVIRONMENTAL SCIENCES			
Course Code	Course Title	Credits	Requisites
FIRST YEAR - FIRST SEMESTER			
ENSC752	Water Quality Management	3	None
ENSC754	Air Quality Management	3	None
ENSC755	Graduate Seminar I	1	None
FIRST YEAR - SECOND SEMESTER			
ENSC751	Environmental Laws, Ethics, and Public Policy	3	None
ENSC753	Soil Management	3	None
ENSC756	Graduate Seminar II	1	ENSC 755
SECOND YEAR - FIRST SEMESTER			
ENSC, CHEM, BIOL	Specialization Course (700-800 Level)	3	
ENSC, CHEM, BIOL	Specialization Course (700-800 Level)	3	
SECOND YEAR - SECOND SEMESTER			
STAT750	Experimental Design	3	STAT505 or Equiv.
ENSC997	Doctoral Dissertation	3	Advisor's Approval
TEST800C	Comprehensive Examination	0	Advisor's Approval
THIRD YEAR - FIRST SEMESTER			
ENSC997	Research Proposal Preparation	3	Advisor's Approval
ENSC, CHEM, BIOL	Specialization Course (700-800 Level)	3	
THIRD YEAR - SECOND SEMESTER			
ENSC997	Doctoral Dissertation	3	Advisor's Approval
ENSC, CHEM, BIOL	Specialization Course (900 level)	3	
FOURTH YEAR - FIRST SEMESTER			
ENSC997	Doctoral Dissertation	3	Advisor's Approval
ENSC, CHEM, BIOL	Specialization Course (900 level)	3	
FOURTH YEAR – SECOND SEMESTER			
ENSC 997	Doctoral Dissertation	3	Advisor's Approval
ENSC, CHEM, BIOL	Specialization Course (900 level)	3	
FIFTH YEAR – FIRST SEMESTER			
ENSC 997	Doctoral Dissertation	3	Advisor's Approval
FIFTH YEAR – SECOND SEMESTER			
ENSC 997	Doctoral Dissertation (Remaining credits to complete 21)	3	Advisor's Approval