

# NATURAL SCIENCES (MS) - ENVIRONMENTAL SCIENCE TRACK (THESIS OPTION)

## Program Overview

Master of Natural Science - Environmental Science track offers a unique master's degree that is a comprehensive and broadly-based course of study. We offer state of the art science courses in toxicology, ecology, anthropology, environmental chemistry, environmental geology, paleontology, geomorphology, hydrology, and geography. Because many aspects of our environmental problems are inherently societal issues, we also have courses in Environmental Law and Regulation; Culture and the Environmental; Human Ecology; Land-Use and Waste Management; and Water Resources Management. With such a diversity of course offerings and flexible curriculum, each student can design a unique program suited to his or her individual goals.

## Career Opportunities

Graduates are well prepared for careers as government or private sector scientists or policy makers. Many students are gainfully employed as environmental consultants. A select group of graduates has continued to pursue higher level education in Doctoral programs at some of the United States' premier Universities.

## Program of Study

Code	Title	Credit Hours
<b>Area 1 Program Core</b>		
ENGL 5149G	Grant Writing	3
Area 1 Total		3
<b>Area 2 Program Concentration</b>		
Select the following courses unless taken for undergraduate credit:		
ENVS 5207G	Experimental Design and Statistical Analysis	4
ENVS 5715G	Earth and Space Sciences Seminar	1
Select one course from Group A and one from Group B; at least one of these courses must include a lab: 7-8		
ENVS 5235G	Geographic Information and Global Positioning Systems	4
Group A: Geosciences		
ATSC 5117G	Global and Climate Change	
ENVS 5165G	Hydrology	
ENVS 5255G	Environmental Geology	
GEOL 5135G	Oceanography	
ATSC 5175G	Hydrometeorology	
GEOL 5215G	Geomorphology	
Group B: Natural/Cultural Resources		
ENVS 5226G	Culture and Environment	
ENVS 5315G	Stream Ecology	
ENVS 5405G	Topics in Conservation	
ENVS 5206G	Water Resources Management	
ATSC 5109G	Environmental Air Quality	
Program Electives - Select 3-4 credits from any 5000+ graduate ATSC, BIOL, CHEM, ENVS, GEOL, GEOG with advisor approval <sup>1</sup>		3-4

Area 2 Total		21
<b>Area 3 Program Requirements</b>		
ENVS 7000	Thesis Defense	0
ENVS 7001	Certification Exam	0
Select the following for a total of 12 credits:		12
ENVS 7999	Research in Environmental Science	
Area 3 Total		12
<b>Total Credit Hours</b>		<b>36</b>

<sup>1</sup> May take Environmental Science Seminar for up to 2 additional credits beyond the 2 required semesters.

## Admission Requirements

In addition to the Columbus State University Graduate School Admissions requirements, all interested applicants must submit the following materials to be considered for admission for all tracks in the Natural Sciences program.

- Baccalaureate degree from an accredited college or university, demonstrated excellent preparation in the Biological, Chemical, Environmental and/or Geological Sciences or permission of the program director.
- Undergraduate grade point average of at least 3.0 on a 4.0 scale.
- A minimum combined score of 290 on the verbal and quantitative portions of the Graduate Record Exam. The GRE must have been taken in the last five years.
- A one page statement of experience and interests.
- Two letters of reference. References should come from persons familiar with the applicant's academic or professional experience.

## Additional Program Requirements

The maximum course load for a graduate student in a given semester is 12 semester hours. The maximum course load for a student holding a graduate assistantship is 10 semester hours.

Complete original, scientific research and write a comprehensive Master's thesis based on this research.

Give an oral presentation of their Master's thesis to a committee of approved reviewers in a forum open to the public.

Successfully defend their Master's thesis during a comprehensive oral examination.