SOIL SCIENCE MINOR

Program Director: Lance Yonkos, Ph.D.

The Soil Science minor will provide students with a sophisticated understanding of soil resources, its development, characteristics, and principles for its use and management. Building on a basic introduction to the broad field of soil science, the program is completed by adding four or five upper division soils courses balanced between underlying principles and field applications.

Declared majors in the Conservation of Soil, Water and Environment area of concentration of NRSC or the Land and Water option in ENSP may not also minor in Soil Sciences.

Advising system for the minor:
The ENST Department has mandatory advising for each of its major and minor programs. Students are required to meet with their advisor at least once per semester. Please refer to the ENST web page at http://enst.umd.edu for more information.

REQUIREMENTS

Course	Title	Credits
Core Requirement		
ENST200	Fundamentals of Soil Science	4
Select 13 credits from Group A and Group B. At least two courses must be from Group A.		**13**
Group A - Underlying Principles:		
ENST411	Principles of Soil Fertility	
ENST414	Soil Morphology, Genesis and Classification	
ENST417	Soil Hydrology and Physics	
ENST421	Soil Chemistry	
ENST422	Soil Microbial Ecology	
Group B - Applications:		
ENST301	Field Soil Morphology I	
ENST302	Field Soil Morphology II	
ENST303	Field Soil Morphology III	
ENST309	Advanced Field Soil Morphology	
ENST423	Soil-Water Pollution	
ENST430	Wetland Soils	
Total Credits		**17**

Students attempting this minor will need MATH113 or higher. There are a total of 17 required credits in ENST classes, plus a 4 credit CHEM prerequisite. Depending on the pre-requisites needed, and the optional courses selected and pre-requisites, students will take between 17 and 24 credits.

This minor is particularly relevant to students majoring in Agricultural and Resource Economics, Geology, Geography, Environmental Science and Policy, Biology, Biochemistry, Chemistry, Anthropology, Architecture, Agriculture Science and Technology, Animal Science, Landscape Architecture, Bioengineering, Civil Engineering, Environmental Engineering, and Plant Science.