SOIL SCIENCE MINOR

Program Director: Paul Leisnham, 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. If you have any questions, please contact Shannon P. Browne, Ph.D. at shannpb@umd.edu.

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ENST200</td>
<td>Fundamentals of Soil Science</td>
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Select 13 credits from Group A and Group B. At least two courses must be from Group A.

Group A - Underlying Principles:
- ENST411 Principles of Soil Fertility
- ENST414 Soil Morphology, Genesis and Classification
- ENST417 Soil Physics and Hydrology
- 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.