Projected

Grade





Soil Science Minor

The **Soil Science Minor** allows students to gain expertise by engaging with one of the top soil science programs in the nation. This minor enables students to understand the complex ways in which aquatic and terrestrial ecosystems are influenced by soil properties and processes and land management decisions. The soil performs such critical ecological functions as supplying and purifying water, recycling wastes, nurturing plants, modifying the atmosphere by emitting or sequestering gases and particulates, providing habitat for the most diverse biological communities on Earth, and serving as a medium for human engineering projects.

Semester Semester Final

Required Fundamentals (4 credits):

ENST 200 Fundamentals of Soil Science (F, Sp; 4)

Select 13 credits from the eleven courses listed below. At least two courses must be from Group A.

Technical Electives - Group A (minimum 2 courses):

ENST 411 Principles of Soil Fertility (F; 3)

ENST 414 Soil Morphology, Genesis and Classification (F; 4)

ENST 417 Soil Hydrology and Physics (F; 3)

ENST 421 Soil Chemistry (Sp; 4)

ENST 422 Soil Microbial Ecology (F; 3)

Applications - Group B (Select remaining courses if needed to reach 13 credits):

ENST 301Field Soil Morphology I (F; 1)Soil Judging TeamENST 302Field Soil Morphology II (F; 1)Soil Judging TeamENST 303Field Soil Morphology III (F; 1)Soil Judging TeamENST 309Advanced Field Soil Morphology (Sp; 1)Soil Judging Team

ENST 423 Soil-Water Pollution (Sp; 3)

ENST 430 Wetland Soils (Sp; 3)

TOTAL CREDITS: A minimum of 17 credits are required to complete this minor.

Students attempting this minor will need MATH113 or higher. Students will also need to complete CHEM 131 (3 credits) and CHEM 132 (1 credit) pre- or co-requisitely to ENST 200. There are a total of 17 required ENST credits.

This minor is particularly relevant to students majoring in Agricultural and Resource Economics, Animal Sciences, Anthropology, Architecture, Biochemistry, Bioengineering, Biological Sciences, Chemistry, Civil and Environmental Engineering, Environmental Science and Policy, Environmental Science and Technology (all concentrations excluding Soil and Watershed Sciences), Geographical Sciences, Geology, Landscape Architecture, and Plant Sciences.