

MINOR IN SOIL SCIENCE

Soils are the most amazing habitats for life on earth. In each handful of soil, there are thousands of different types of microbes and a whole soil food web. These organisms interact within the soil to decompose plant materials and cycle nutrients that are critical to life. Humans depend on soils for food production, clear water, and as the foundation for our living world. In recent years, new technologies have opened up this exciting frontier of science.

The purpose of the minor in Soil Science is to combine the fundamental sub-disciplines of soil science to provide non-majors the essential elements of soil science.

Requirements Effective Fall 2014

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

| Code | Title | Credits |
|---|---|-----------|
| Required Courses | | |
| SOCR 240 | Introductory Soil Science | 4 |
| SOCR 440 | Pedology | 4 |
| SOCR 455 | Microbiomes of Soil Systems | 3 |
| SOCR 470 | Soil Physics | 3 |
| Selected Courses | | |
| Select a minimum of 7 credits from the following courses: | | 7 |
| SOCR 322 | Principles of Microclimatology | |
| SOCR 350 | Soil Fertility Management | |
| SOCR 351 | Soil Fertility Laboratory | |
| SOCR 370 | Climate-Smart Irrigation Principles | |
| SOCR 371 | Irrigation of Field Crops | |
| SOCR 400 | Soils and Global Change-Impacts and Solutions | |
| SOCR 441 | Soil Ecology | |
| SOCR 456 | Soil Microbiology Laboratory | |
| SOCR 467 | Soil and Environmental Chemistry | |
| SOCR 471 | Soil Physics Laboratory | |
| SOCR 490 | Hydrus-1D Workshop | |
| SOCR 522 | Micrometeorology | |
| Program Total Credits: | | 21 |