



Dept of Plant, Soil & Microbial Sciences

College of Agriculture & Natural Sciences

Minor in Environmental Soil Science

The Minor in Environmental Soil Science is intended to serve students and professionals who plan to pursue careers in soil science, soil health, or related agricultural, natural resource, and environmental sciences with a focus on the sustainable management of soils to produce food, fiber, and other products while conserving or regenerating natural and managed ecosystems.

The requirements meet the soil science course work requirements for Federal and state employment as soil scientists, as well as the course work requirements necessary to become a Certified Professional Soil Scientist (CPSS).

At least 9 credits counted towards the requirements for this minor must be unique. Unique credits must not be used to fulfill another university, college, or major requirement in the student's program.

With the approval of the department and college that administer the student's degree program, 6 credits of course work that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who are interested in enrolling should contact an undergraduate advisor in the Department of Plant, Soil and Microbial Sciences.



Requirements for the Minor in Environmental Soil Science

Complete all of the following courses (15 credits):

1. The following course (3 credits):			
CSS 210 Fundamentals of Soil Science	3		
2. Complete 12 credits from the following, with a minimum of 6 credits from the Soil Science category:			
<i>Soil Science</i>			
CSS 203 World of Soils	2		
CSS 330 Soil Chemistry	2		
CSS 340 Applied Soil Physics	2		
CSS 360 Soil Biology	2		
CSS 470 Soil Resources	3		
CSS 480 Soil Fertility and Management	3		
<i>Approved Electives</i>			
ANS 418 Animal Agriculture and the Environment	3	GEO 221 Introduction to Geographic Information	3
CSS 411 Fire and Environmental Quality	3	GEO 306 Environmental Geomorphology	3
CSS 420 Cover Crops in Agroecosystems	3	GEO 324 Remote Sensing of the Environment	4
CSS 442 Agricultural Ecology	3	GEO 325 Geographic Information Systems	3
CSS 460 Plant-Microbe Interactions	3	GEO 402 Agricultural Climatology	3
CSS 488 Agricultural Cropping Systems: Integration and Problem Solving	3	GLG 411 Hydrogeology	3
CSUS 354 Water Resources Management	3	GLG 412 Glacial Geology and the Record of Climate Change	4
CSUS 453 Watershed Planning and Management	3	GLG 431 Sedimentology and Stratigraphy	4
FOR 340 Forest Ecology	3	GLG 446 Ecosystems Modeling, Water and Food Security	3
FOR 406 Applied Forest Ecology: Silviculture	3	HRT 332 Tree Fruit Production and Management	3
FOR 413 Wildland Fire Ecology and Management	3	HRT 336 Viticulture and Berry production	2
FW 410 Upland Ecology and Management	3	HRT 341 Vegetable Production and Management	3
FW 416 Marine Ecology and Management	3	PLB 402. Biology of Fungi	4
FW 417 Wetland Ecology and Management	3	PLB 415 Plant Physiology	3
FW 472 Limnology	3	PLB 418 Plant Systematics	3
		PLB 441 Plant Ecology	3