Soils

LOWER DIVISION

SOIL 104. Introduction to Sustainable Agriculture [3]. The course provides an understanding of the complex relationships among crop plants, domesticated animals, and their abiotic and biotic environment, and the requirements for sustainable agriculture. [Weekly: 2 hrs lect, 3 hrs lab. B-LD.]

SOIL 260. Introduction to Soil Science [3]. Soil’s physical, chemical, and biological properties. Implications for land management. Identify soil parent materials; use soil survey reports. [Prereq: CHEM 107 or CHEM 109 or IA. Weekly: 2 hrs lect, 3 hrs lab.]

UPPER DIVISION


SOIL 460. Wildland Soil Management & Erosion Control [3]. Characterization, mapping, assessment, interpretation, and management of wildland soils; nutrient cycling, fire effects, erosion control. [Prereq: SOIL 260 or equivalent. Weekly: 2 hrs lect, 3 hrs lab.]


SOIL 465. Soil Microbiology [3]. Interrelationships between soil, microorganisms, and plants, especially in context of wildland soils. Isolate/identify microorganisms. [Prereq: SOIL 260 or equivalent, and BIOL 105. Weekly: 2 hrs lect, 3 hrs lab. Offered alternate years.]

SOIL 467. Soil Physics [3]. State/transport of matter and energy in soil; physical processes governing soil/water energy relationships. [Prereq: SOIL 260 or equivalent, and PHYX 106 or PHYX 109; or IA. Weekly: 2 hrs lect, 3 hrs lab. Offered alternate years.]

SOIL 468. Introduction to Agroforestry [3]. Objectives and socioeconomic contexts. Multipurpose tree species; soil/tree/crop/livestock interactions; soil conservation; soil fertility effects. [Prereq: BOT 105 and SOIL 260 or equivalent.]

SOIL 480. Selected Topics [1-3]. Lecture as appropriate. [Rep with different topics.]

SOIL 485. Senior Seminar [1-2]. Topics of current interest. Lectures, guest speakers, discussions, and/or student presentations. [Prereq: junior or senior standing or IA. Rep.]

SOIL 499. Directed Study [1-3]. Individual research/project. [Prereq: IA. Rep.]

GRADUATE

SOIL 685. Seminar [1-2]. Topics of current interest. Lectures, guest speakers, discussions, and/or student presentations. [Prereq: grad standing or IA. Rep.]

Sustainability-focused; sustainability-related; A B C D E general education areas; activ activity; (C) may be taken concurrent; coreq corequisite(s); CR/NC mandatory credit/no credit; disc discussion; DCG diversity & common ground; d domestic; n non-domestic; IA instructor approval; lect lecture; LD lower division; prereq prerequisite; rec recommended preparation; rep repeatable for credit; UD upper division

Soils 2019-2020 Humboldt State University Catalog