

COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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ESPM 131 - SOIL MICROBIAL ECOLOGY (3 UNITS)

(Taken from the UC Berkeley Course Guide (<http://guide.berkeley.edu>))

COURSE OVERVIEW

SUMMARY

Introduction to the organisms that live in the soil and their activities in the soil ecosystem. Lectures will cover the physical and chemical properties of soils and the soil as a habitat for microorganisms, the diversity and ecology of soil microorganisms, and their activity in the context of biogeochemical cycling, plant-microbe interactions, global environmental change and bioremediation. Goals: To gain fundamental knowledge of the occurrence and activities of soil microorganisms and their influence on soil productivity and environmental quality as well as potential applications of soil microbiology.

PREREQUISITES

Biology 1A-1B

Spring only

WORKLOAD

TIME COMMITMENT

3 hours of lecture and 3 hours of discussion per week.

