

## COURSE DETAIL

### SOIL AND PLANT ECOLOGY

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

123

**UCEAP Course Suffix****UCEAP Official Title**

SOIL AND PLANT ECOLOGY

**UCEAP Transcript Title**

SOIL & PLANT ECOL

**UCEAP Quarter Units**

12.00

**UCEAP Semester Units**

8.00

## Course Description

This course explores the intersection of biological, chemical, and geological processes that shape the soil environment. In an era of unprecedented human-induced environmental change, research in this field is advancing rapidly. The course explores the processes underlying biogeochemical cycles of carbon and nutrients, soil formation and erosion, and examines how human activities alter these processes. Topics include microbial and plant-mediated carbon and nutrient cycling, the role of biological diversity in biogeochemical processes, the importance of mycorrhiza for plant nutrition, soil food webs, and exploration into how new techniques are advancing studies of the soil environment. The course is designed to facilitate critical discussion and analysis of various soil processes, and improve research, dissemination, and presentation skills.

## Language(s) of Instruction

English

## Host Institution Course Number

BIOR78/EXTN20

## Host Institution Course Title

SOIL AND PLANT ECOLOGY

## Host Institution Course Details

## Host Institution Campus

Science

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Biology

## Course Last Reviewed

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