

COURSE DETAIL

TERRESTRIAL ECOSYSTEM PROCESSES AND GLOBAL CHANGE

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

TERRESTRIAL ECOSYSTEM PROCESSES AND GLOBAL CHANGE

UCEAP Transcript Title

TERRESTRIAL ECOSYST

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides a comprehensive understanding of processes in terrestrial ecosystems, and of effects of global change on processes and organisms. The focus is on carbon, water, and nutrient cycling between plants, soil organisms, soil, and atmosphere. This includes lessons in radiation and energy balance, photosynthesis, respiration, water use efficiency, and measures of stress, at leaf, plant, and canopy level. Belowground processes as plant nutrient uptake and microbial turnover, mobilization and immobilization of nutrients, plant-microbe-animal interactions, plant-soil-atmosphere interactions, rhizosphere processes and mycorrhizal function are also addressed, with focus on the importance of climate and anthropogenically induced climatic changes. Species/community effects on ecosystem processes and temporal dynamics are also addressed. Field and laboratory studies are performed and the results are presented orally and in reports. Participants present one or two journal papers with relation to the subjects taught in the lectures, including effects of global change on ecosystems.

Language(s) of Instruction

English

Host Institution Course Number

NBIK14018U

Host Institution Course Title

TERRESTRIAL ECOSYSTEM PROCESSES AND GLOBAL CHANGE

Host Institution Course Details

<https://kurser.ku.dk/course/nbik14018u/2024-2025>

Host Institution Campus

Host Institution Faculty

Science

Host Institution Degree

Master

Host Institution Department

Biology

Course Last Reviewed

2024-2025

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