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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