COURSE DETAIL

PLANTS IN POPULATIONS AND COMMUNITIES
Country Denmark
Host Institution University of Copenhagen
Program(s) University of Copenhagen
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies Biological Sciences
UCEAP Course Number 113
UCEAP Course Suffix
UCEAP Official Title PLANTS IN POPULATIONS AND COMMUNITIES
UCEAP Transcript Title PLANTS/POPULATIONS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course focuses on the ecological and evolutionary patterns and processes that drive biotic and abiotic interactions at population and community levels. A major focus of the course is to use ecological theory to understand basic and applied questions in plant ecology with relevance to global sustainability objectives. It covers the basic principles in plant population and community ecology that will help to address the challenges for plant population ecology (demography, population dynamics, dispersal), biotic interactions (plant-plant, plant-microbe, and plant-herbivore interactions and their impacts on plant populations, communities, and co-evolution), evolutionary ecology (life history, local adaptation, population, and ecological genetics), and plant community ecology (community structure, succession, species diversity). The course also explores the importance of basic plant ecology for addressing current global agri-environmental and sustainability challenges (zero hunger, life on land, responsible consumption and production, climate action) through lectures and seminars, student- and teacher-led classroom discussion, literature criticism, and project work. Case studies include plant invasions, pest management, plant ecology and evolution in human-influenced environments, plant diversity, big data, and citizen science for plant ecology.

Language(s) of Instruction
English

Host Institution Course Number
NPLK21001U

Host Institution Course Title
PLANTS IN POPULATIONS AND COMMUNITIES

Host Institution Course Details
https://kurser.ku.dk/course/nplk21001u/2021-2022

Host Institution Campus

Host Institution Faculty
Faculty of Science

Host Institution Degree
Master

Host Institution Department
Department of Plant and Environmental Sciences

Course Last Reviewed
2021-2022

Print