

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

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