# COURSE DETAIL

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

**Host Institution Faculty**
Faculty of Science

**Host Institution Degree**
Master

**Host Institution Department**
Department of Plant and Environmental Sciences

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