# COURSE DETAIL

## ECOPHYSIOLOGY

**Country**
Netherlands

**Host Institution**
Wageningen University and Research Center

**Program(s)**
Wageningen University

**UCEAP Course Level**
Upper Division

**UCEAP Subject Area(s)**
Biological Sciences

**UCEAP Course Number**
126

**UCEAP Course Suffix**

**UCEAP Official Title**
ECOPHYSIOLOGY

**UCEAP Transcript Title**
ECOPHYSIOLOGY

**UCEAP Quarter Units**
5.00

**UCEAP Semester Units**
3.30

**Course Description**

In their struggle for survival, organisms have to adapt continuously to changes in their abiotic and biotic environment. This course focuses on the molecular mechanisms and consequences of these adaptations for individual organisms and interactions among organisms. Attention is paid to various (a)biotic factors including temperature, drought, feeding conditions, photoperiodicity, intraspecific competition, symbiosis, and parasitism. Common mechanisms and key concepts across kingdoms underlying adaptation and plasticity are analyzed in depth. Examples show how environmental conditions affect signal transduction pathways leading to adaptive changes in ecology, behavior, and phenology.

**Language(s) of Instruction**
English

**Host Institution Course Number**
NEM21306

**Host Institution Course Title**
ECOPHYSIOLOGY

**Host Institution Course Details**
https://wur.osiris-student.nl/#/onderwijscatalogus/extern/cursus

**Host Institution Campus**
Wageningen University

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Nematology

**Course Last Reviewed**
2023-2024

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