

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 Campus

Wageningen University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Nematology

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