

COURSE DETAIL

EVOLUTIONARY ECOLOGY

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

125

UCEAP Course Suffix**UCEAP Official Title**

EVOLUTIONARY ECOLOGY

UCEAP Transcript Title

EVOLUTIONARY ECOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course offers an understanding of life-history adaptations, their ecological context, genetic variation, and evolution. It provides a detailed perception of biological adaptation through natural and sexual selection, the different levels of selection (genes, individuals, and social groups) and the strength of these forces in shaping life-history adaptations. The course integrates ecological and evolutionary approaches. Topics include mating systems and sexual selection; decision making and the evolution of communication; life histories in animals and microbes; life history traits: genetic variation and phenotypic plasticity; mutualistic interactions and their evolutionary stability; social evolution: cooperation and conflict; and parasite-host interactions.

Language(s) of Instruction

English

Host Institution Course Number

NBIK14021U

Host Institution Course Title

EVOLUTIONARY ECOLOGY

Host Institution Campus

Host Institution Faculty

Science

Host Institution Degree

Master

Host Institution Department

Biology

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