

## 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 Course Details

<https://kurser.ku.dk/course/nbik14021u/2024-2025>

## Host Institution Campus

## Host Institution Faculty

Science

## Host Institution Degree

Master

## Host Institution Department

Biology

## Course Last Reviewed

2024-2025

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