

# COURSE DETAIL

## BASIC PARASITOLOGY

**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**

137

**UCEAP Course Suffix****UCEAP Official Title**

BASIC PARASITOLOGY

**UCEAP Transcript Title**

BASIC PARASITOLOGY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course gives an introduction to the biology of parasitism, and the interactions between parasites and their hosts. The focus is on fundamental concepts in parasitology, for example the definition of parasitism as a life form, adaptations to parasitism, host exploitation strategies, and fitness effects of parasitism on host individuals and populations. Those concepts are supported by hands-on experimental work on host-parasite models in the laboratory in combination with research-based lectures. In addition, examples of the distribution and importance of parasites in wildlife populations are provided, and the potential commercial applications of using parasite models are explored and discussed. The aim of the course is to provide students with a broad introduction to animal parasites and how they interact with their hosts. Students gain practical experience working with experimental host-parasite models in the laboratory. Morphological adaptations to parasitism and variation in life-cycles are presented. Factors affecting host and parasite fitness, and parasite distribution within and among hosts are demonstrated experimentally, and their applications in real-life situations are discussed. A concrete example of how knowledge on fundamental parasite biology was turned into the production of a medicinal product is presented.

## Language(s) of Instruction

English

## Host Institution Course Number

NPLK15000U

## Host Institution Course Title

BASIC PARASITOLOGY

## Host Institution Campus

Science

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

