

# COURSE DETAIL

## ECOPHYSIOLOGY

**Country**

Netherlands

**Host Institution**

Maastricht University - Center for European Studies

**Program(s)**

Biological and Life Sciences, Maastricht, Biological and Life Sciences

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies Biological Sciences

**UCEAP Course Number**

108

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

ECOPHYSIOLOGY

**UCEAP Transcript Title**

ECOPHYSIOLOGY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

Ecophysiology is the study of physiological adaptations of organisms in relation to the environments in which they live. It has become an increasingly important science, because an understanding of the relationship between organism and environment is essential in order to predict the effects of man-made environmental change. The physiology of an organism incorporates many of its most important adaptations to the environment in which it lives. This course considers the variety of environmental pressures imposed on organismal physiology. It examines the often ingenious solutions that evolve in response to these pressures, and how different organisms and groups of organisms have evolved different physiological means of dealing with the same problem. The course focuses both on the abiotic environment (e.g. issues related to climate, gas exchange) and the biotic environment (e.g. how digestive physiology is adapted to plant toxins). Towards the end of the course, students look at Conservation Physiology, one of the practical applications of ecophysiology. There is a particular focus on the physiological adaptations of animals. Although BIO2004 General Zoology is not a prerequisite for this course, the course is recommended before taking Ecophysiology.

### Language(s) of Instruction

English

### Host Institution Course Number

BIO3002

### Host Institution Course Title

ECOPHYSIOLOGY

### Host Institution Campus

### Host Institution Faculty

Maastricht Science Program

### Host Institution Degree

## Host Institution Department

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