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 Course Details

Host Institution Campus

Host Institution Faculty
Maastricht Science Program

Host Institution Degree
Host Institution Department
Course Last Reviewed

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