

COURSE DETAIL

GENERAL ECOSYSTEM ECOLOGY

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

129

UCEAP Course Suffix**UCEAP Official Title**

GENERAL ECOSYSTEM ECOLOGY

UCEAP Transcript Title

ECOSYSTEM ECOLOGY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

The environment influences organisms profoundly. It affects their present-day ecology (determining where they live and how many can survive there) and, through natural selection acting over past generations, influences their form and adaptations. Present day human-induced changes to the environment are also responsible for endangering species and even driving them to extinction. This course introduces principles and applications of ecology at different levels of ecosystems (i.e. individual, population, community, ecosystem, regional and global scales). The ecological theories are illustrated with examples in order to enable better understanding of the links between the environment and organisms as well as the biological interactions and human-induced threats at each level of ecological organization. The course concludes with the introduction of biodiversity management, i.e. conservation, restoration and sustaining biodiversity, global ecological crisis, and the economical and socio-political dimensions of nature and environmental management.

Language(s) of Instruction

English

Host Institution Course Number

BSE2029

Host Institution Course Title

GENERAL ECOSYSTEM ECOLOGY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Bioenvironmental Systems Engineering

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