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 ECOLOGY

Host Institution Course Details
http://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=602%2027800&cl...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Bioenviromental Systems Engineering

Course Last Reviewed
2022-2023

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