COURSE DETAIL

2.00

ECOLOGY AND EVOLUTION Country Japan **Host Institution** Tohoku University Program(s) **Engineering and Science UCEAP Course Level** Lower Division **UCEAP Subject Area(s) Biological Sciences UCEAP Course Number** 52 **UCEAP Course Suffix UCEAP Official Title ECOLOGY AND EVOLUTION UCEAP Transcript Title ECOLOGY&EVOLUTION UCEAP Quarter Units** 3.00 **UCEAP Semester Units**

Course Description

This course studies the basics and recent advances in ecology and evolution.

The course covers the following topics: global change and plants; biogeography and global biodiversity patterns; animal group and social behavior; plant morphological plasticity caused by biological interactions; gene and genome duplication; heterospecific mating interactions; sexual selection and sexual conflict in animals; mathematical modeling of predator-prey dynamics; eDNA analysis and its application to ecological monitoring; dynamical-data analysis in ecology; physiological ecology of plants; ecology and evolution in tumors; dendrochronology, and adaptive evolution of plants in extreme environment.

Language(s) of Instruction

English

Host Institution Course Number

N/A

Host Institution Course Title

ECOLOGY AND EVOLUTION

Host Institution Campus

Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department

JYPE

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