

COURSE DETAIL

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

2.00

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 Course Details

https://www.insc.tohoku.ac.jp/english/wp-content/uploads/2024/09/VJ222F70_Ecolo...

Host Institution Campus

Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department

JYPE

Course Last Reviewed

2024-2025

[Print](#)