

## COURSE DETAIL

### ECOLOGY

**Country**

Hong Kong

**Host Institution**

Hong Kong University of Science and Technology (HKUST)

**Program(s)**

Hong Kong University of Science and Technology

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies Biological Sciences

**UCEAP Course Number**

160

**UCEAP Course Suffix****UCEAP Official Title**

ECOLOGY

**UCEAP Transcript Title**

ECOLOGY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course is designed to equip students with a comprehensive understanding of fundamental ecology principles, their practical applications, and how the concepts relate to the real world with examples from published scientific studies. Ecology is introduced at its different levels of organization, including organism-environment (biotic-abiotic) interactions, adaptations of plants and animals, the characteristics of populations as a basic biological unit in an ecosystem, intra and inter-specific interactions, community ecology, and ecosystem ecology. Students develop critical thinking and analytical skills by interpreting ecological data and applying theoretical knowledge to real-life scenarios. By the end of the course, students have a solid foundation in ecological principles, preparing them for further study or careers in conservation, environmental science, scientific research, and related fields.

## Language(s) of Instruction

English

## Host Institution Course Number

LIFS3160,OCES 3160

## Host Institution Course Title

ECOLOGY

## Host Institution Course Details

<https://prog-crs.hkust.edu.hk/ugcourse/2025-26/search?keyword=OCES%203160>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Ocean Science

**Course Last Reviewed**

2025-2026

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