

## COURSE DETAIL

### GLOBAL CHANGE BIOLOGY

**Country**

Hong Kong

**Host Institution**

Chinese University of Hong Kong

**Program(s)**

Chinese University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies Biological Sciences

**UCEAP Course Number**

130

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

GLOBAL CHANGE BIOLOGY

**UCEAP Transcript Title**

GLOBAL CHANGE BIOL

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course discusses the impact of global environmental changes on biological systems and their ecosystems. Focus is on how global warming, and associated changes such as altered rainfall, sea level rise, and ocean acidification, have changed the biological communities of the Earth's various ecosystems, from forests to coral reefs. The impact at biological levels from molecules to cells, organisms, populations, and communities are explored. The course introduces models for projecting future changes in Earth systems, biological communities and ecosystem services under climate change. While the major focus is on climate change, the course also examines other aspects of global environmental change, such as habitat deterioration. Students are required to present case studies of global change biology based on latest research findings.

## Language(s) of Instruction

English

## Host Institution Course Number

BIOL4230

## Host Institution Course Title

GLOBAL CHANGE BIOLOGY

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Biology

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