

# COURSE DETAIL

## GLOBAL CHANGE ECOLOGY (WITH LAB)

**Country**

South Africa

**Host Institution**

University of Cape Town

**Program(s)**

University of Cape Town

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies Biological Sciences

**UCEAP Course Number**

115

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

GLOBAL CHANGE ECOLOGY (WITH LAB)

**UCEAP Transcript Title**

GLOBAL CHANGE ECOL

**UCEAP Quarter Units**

12.00

**UCEAP Semester Units**

8.00

## Course Description

This course explores the drivers of global change, both natural (e.g. Milankovitch cycles, tectonic drift) and anthropogenic (e.g. greenhouse gas emissions, pollution, land-use change) and then examines how these drivers influence (and are influenced by) terrestrial and marine biological systems. A variety of topics, ranging from organismal and physiological responses to global change, biodiversity, global biogeochemical cycles, ecological function and ecosystem services are covered. While the majority of the class is focused on contemporary global change, this is contextualized relative to palaeohistorical environmental change. The course provides an integrated knowledge of contemporary environmental issues related to global change (e.g. carbon sequestration, climate change mitigation, land-use change) and its implications for biodiversity, ecosystem services and human wellbeing).

DP requirements: Completion of at least 70% of deliverables (tests, practicals, project report), including at least one class test and the project report; attendance of practicals; minimum of 40% for the class record.

Assessment: A 3-hour examination written in June, with a sub-minimum of 40%, will count for 50% of the course. Coursework marks will be allocated as follows: Practical classes (assessed weekly) count 15%; research project counts 20%; class tests count 15%. Course entry requirements: BIO1000F/H, BIO1004F/S; approved 2000-level semester Science course.

## Language(s) of Instruction

English

## Host Institution Course Number

BIO3013F

## Host Institution Course Title

GLOBAL CHANGE ECOLOGY

## Host Institution Course Details

<https://www.uct.ac.za/sites/default/files/media/documents/2026-sci-handbook-11-...>

## Host Institution Campus

University of Cape Town

**Host Institution Faculty**

Science

**Host Institution Degree**

**Host Institution Department**

Biological Sciences

**Course Last Reviewed**

2025-2026

[Print](#)