

COURSE DETAIL

GLOBAL ENVIRONMENTAL CHANGE (FOUNDATIONS)

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

128

UCEAP Course Suffix**UCEAP Official Title**

GLOBAL ENVIRONMENTAL CHANGE (FOUNDATIONS)

UCEAP Transcript Title

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UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course presents an integrated approach to the processes that have driven environmental changes at various time scales during the Quaternary period. Discussed are the interactions between the oceans, ice sheets and continents, and the way in which climate change drives/affects Earth surface processes. The archives that preserve records of environmental change on Earth on time scales of millions of years to decades are examined. Causes for environmental change through time are scrutinized in a global context. In addition to covering the general change in Earth's climate over a longer period, there is a focus on the last glaciation and the transition into the modern Holocene climate. The causes for environmental change are studied from a marine and a continental perspective. Also, a computer simulation component highlights the processes having driven past climate change in addition to assessing future climate states. Computer based practical sessions are an important part of the course and introduce techniques used in retrieving information on, and reconstructing, past environments from environmental archives (e.g. sediments, corals) and comparing data from different settings.

Language(s) of Instruction

English

Host Institution Course Number

EASC09056

Host Institution Course Title

GLOBAL ENVIRONMENTAL CHANGE (FOUNDATIONS)

Host Institution Course Details

<http://www.drps.ed.ac.uk/20-21/dpt/cxeasc09056.htm>

Host Institution Campus

University of Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department

School of Geosciences

Course Last Reviewed

2022-2023

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