

COURSE DETAIL

GLOBAL ENVIRONMENTAL CHANGE

Country

Ireland

Host Institution

University College Dublin

Program(s)

University College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

GLOBAL ENVIRONMENTAL CHANGE

UCEAP Transcript Title

GLOBAL ENV CHANGE

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course investigates how earth scientists reconstruct past climates, and demonstrate, using selected case studies, what drives climate change and how ecosystems respond to these forcing factors. Upon successful completion of the course, students are able to understand the various sources of sedimentological, chemical, and biological data (proxies) earth and environmental scientists use to reconstruct ancient environments and climates, with particular emphasis on environmental reconstructions using microfossils and isotopic data; the basic principles of stratigraphy; how changes in sedimentary sequences over time record phenomena such as changes in sea level, and astronomical forcing of climate; and a series of key events involving global environmental change that are recorded in the geological record of Ireland (including snowball Earth events, carboniferous palaeoenvironments, and landscape evolution over the past few thousand years). This course is taught online.

Language(s) of Instruction

English

Host Institution Course Number

GEOL20110

Host Institution Course Title

GLOBAL ENVIRONMENTAL CHANGE

Host Institution Campus

University College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Geology

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