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 5.00
UCEAP Semester Units 3.30

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 Course Details
https://hub.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=GEOL20110

Host Institution Campus
University College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Geology

Course Last Reviewed
2025-2026

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