

COURSE DETAIL

PALAEOCEANOGRAPHY

Country

Ireland

Host Institution

University of Galway

Program(s)

University of Galway

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Geography Biological Sciences

UCEAP Course Number

151

UCEAP Course Suffix**UCEAP Official Title**

PALAEOCEANOGRAPHY

UCEAP Transcript Title

PALAEOCEANOGRAPHY

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

Climate change is not a modern phenomenon, as Earth's systems are dynamic and rarely stable over extended periods of time. Climate variability occurs across multiple spatial and temporal scales, but we generally lack long enough scientific or historical records to directly measure most long-term patterns of climate change. Palaeoceanography fills this void by providing evidence of past changes in ocean conditions including temperature, salinity, productivity, circulation, and ecology. These variables are typically reconstructed through analyses of the geochemistry, microfossil composition, and organic contents of ancient marine sediments that have either been exposed on land or collected through seafloor drilling. Palaeoceanography offers an opportunity to reconstruct past climate change across timescales, providing a broader context for studying modern climate change.

Language(s) of Instruction

English

Host Institution Course Number

TI3128

Host Institution Course Title

PALAEOCEANOGRAPHY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Geography

[Print](#)