

# 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 Course Details**

<https://www.universityofgalway.ie/course-information/module/TI3128>

## **Host Institution Campus**

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

Geography

## **Course Last Reviewed**

2023-2024

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