

COURSE DETAIL

THE EARTH CLIMATE SYSTEM AND CLIMATE CHANGE

Country

Italy

Host Institution

University of Bologna

Program(s)

University of Bologna

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

150

UCEAP Course Suffix**UCEAP Official Title**

THE EARTH CLIMATE SYSTEM AND CLIMATE CHANGE

UCEAP Transcript Title

EARTH CLIMATE SYST

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrollment is by permission of the instructor. The factors determining the Earth's climate are explored, such as the geographic constraints, energy and water, and oceanic and atmospheric circulation, solar heating, tropical variability, ice ages, and greenhouse gases. The course looks at how the climate expresses itself in terms of phenomena, including heat waves, tropical cyclones (hurricanes and typhoons), and floods. The potential consequences of human-induced climate change and their implications for policy formulation are analyzed, focusing on risks to people, societies, and ecosystems. The course also looks at the international policy initiatives to reduce greenhouse-gas emissions and to adapt to climate change.

Language(s) of Instruction

English

Host Institution Course Number

96020

Host Institution Course Title

THE EARTH CLIMATE SYSTEM AND CLIMATE CHANGE

Host Institution Course Details

<https://www.unibo.it/en/study/course-units-transferable-skills-moocs/course-uni...>

Host Institution Campus

BOLOGNA

Host Institution Faculty

Host Institution Degree

LM in SCIENCES AND MANAGEMENT OF NATURE

Host Institution Department

Biological, Geological, and Environmental Sciences

Course Last Reviewed

2025-2026

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