

COURSE DETAIL

CLIMATE CHANGE IMPACTS ON COASTAL SOCIETY AND MARINE ECOSYSTEMS

Country

Italy

Host Institution

University of Bologna

Program(s)

University of Bologna

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies Biological Sciences

UCEAP Course Number

189

UCEAP Course Suffix**UCEAP Official Title**

CLIMATE CHANGE IMPACTS ON COASTAL SOCIETY AND MARINE ECOSYSTEMS

UCEAP Transcript Title

CLIMTE CHNG IMPACTS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This is a graduate level course that is part of the Laurea Magistrale program. The course is intended for advanced level students only. Enrollment is by consent of the instructor. Students learn the effects of global climate change on key organisms, biodiversity and ecosystems, particularly on marine species, including the effects on human societies and economies. Models and forecasts are presented considering different scenarios predicted by the IPCC (Intergovernmental Panel on Climate Change). Students learn how organisms interact, as components of the structure and function of ecosystems, including the consequences of human interactions with the environment. Marine organisms are traced from the Earth's primordial oceans, to their response to the warming and acidifying oceans. Module 1 covers: conflicts and security risks of climate change in the Mediterranean Region; socioeconomic aspects of human migrations, tourism, and fisheries; ecological and evolutionary considerations regarding corals in a rapidly changing environment; coral population dynamics. Module 2 covers strategies of acclimation to ocean acidification in Mediterranean corals.

Language(s) of Instruction

English

Host Institution Course Number

88272

Host Institution Course Title

CLIMATE CHANGE IMPACTS ON COASTAL SOCIETY AND MARINE ECOSYSTEMS (LM)

Host Institution Course Details**Host Institution Campus**

SCIENZE

Host Institution Faculty

Host Institution Degree

Host Institution Department

Scienze e gestione della natura

Course Last Reviewed

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