

## 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

**Host Institution Campus**

SCIENZE

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**

Scienze e gestione della natura

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