

Climatic hotspots (The Arctic and the Mediterranean)



SCHOOL

Faculty of Science



CAMPUS

Belle-Beille



LEVEL

2nd year Bachelor's degree



OPEN TO EXCHANGE STUDENTS

Yes



SEMESTER

Fall (S1)

- > **Degree course:** Sea, Manmade pollution, Diagnosis
- > **Teaching unit:** UE 26
- > **Course language:** English
- > **Duration (hours):** 17
- > **ECTS:** 3
- > **Teacher(s):** Maria-Pia NARDELLI

> Assessment:

- Continuous assessment
- Final exam

> Teaching methods:

- Lecture course 8 hours
- Tutorial course 9 hours
- Practical work hours

- Case study
- Project

COURSE DESCRIPTION

This course will focus on ecological characteristics and methods of environmental diagnosis in marine environments characterized by peculiar climatic conditions.

Case studies will allow students to approach scientific subjects such as polar amplification and climate change effects on polar environments, the role of polar and subpolar oceans in the carbon cycle, and climatic and oceanic teleconnections.

Specific work will focus on the MEDECC report (The network of Mediterranean Experts on Climate and Environmental Change) which will allow students to perform the analysis of a scientific text, to know the Mediterranean Sea as a climate hotspot and to help the common reflection about the identification of the major future scientific challenges.

Prerequisites:

Basic notion of marine bio-geosciences (ocean circulation, biogeochemistry, sedimentology, etc).

OBJECTIVES

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