

Dynamics of open marine environments



SCHOOL
Faculty of Science



CAMPUS
Belle-Beille



LEVEL
1st year Master's degree



OPEN TO EXCHANGE STUDENTS
Yes



SEMESTER
Spring (S2)

> **Degree course:** Sea, Manmade pollution, Diagnosis

> **Teaching unit:** UE 17

> **Course language:** English

> **Duration (hours):** 17

> **ECTS:** 3

> **Teacher(s):** Maria-Pia NARDELLI

> **Assessment:**

Continuous assessment

Final exam

> **Teaching methods:**

Lecture course 13 hours

Tutorial course 4 hours

Practical work hours

Case study

Project

COURSE DESCRIPTION

This teaching unit presents the main factors controlling the spatial and temporal dynamics of marine ecosystems, from the coast to the open ocean (e.g., ridges, abyssal plains, canyons, OMZ...). A particular focus will be made on continent-ocean transfer mechanisms (cascading, downwelling/upwelling) and their possible ecological effects (alteration of trophic status, oxygen depletion, etc.). Methods of ecological study adapted to these ecosystems. Anthropogenic activities and climate change will also be discussed.

Prerequisites:

Ecosystems: Functioning and diversity

OBJECTIVES

Students will acquire knowledge of the diversity of marine ecosystems.
Reading, synthesis and restitution of scientific works.