



SC

**PHYS2391 Eléments d'océanographie physique**

[15h] 2.5 credits

This course is taught in the 1st semester

**Teacher(s):** Thierry Fichet  
**Language:** french  
**Level:** 2nd cycle course

**Aims**

Physical oceanography is the branch of oceanography that includes the geometric description of oceanic basins, the study of physical and chemical properties of the marine environment and of its movements, the study of energy exchanges between ocean and atmosphere and of the geographical distribution the ocean properties and movement. The aim of this course is to introduce to this discipline that is becoming more and more important in modern climatology. It is a course of general interest and of research formation for students interested by geosciences.

**Main themes**

Basic formation in physical oceanography : air-sea interactions and thermohaline structure of the World Ocean, large-scale oceanic dynamics, oceanic circulation (surface, deep sea, general).

**Other credits in programs**

|                 |  |               |
|-----------------|--|---------------|
| <b>MAP23</b>    | Troisième année du programme conduisant au grade d'ingénieur civil en mathématiques appliquées | (2.5 credits) |
| <b>MECA23</b>   | Troisième année du programme conduisant au grade d'ingénieur civil mécanicien                  | (2.5 credits) |
| <b>PHYS21/T</b> | Première licence en sciences physiques (Physique de la terre, de l'espace et du climat)        | (2.5 credits) |
| <b>PHYS22/G</b> | Deuxième licence en sciences physiques   | (2.5 credits) |