

Clima i aigües**2014/2015**Code: 101616
ECTS Credits: 6

Degree	Type	Year	Semester
2501002 Geografia i ordenació del territori	OB	2	1

ContactName: Peter Graham Mortyn
Email: Graham.Mortyn@uab.cat**Use of languages**Principal working language: anglès (eng)
Some groups entirely in English: Yes
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: Yes**Objectives and Contextualisation**

To describe the functioning and operation of the climatic system from the knowledge and the understanding of the fundamental concepts of climatology. This subject considers atmospheric general circulation, introduced in the first course of Physical Geography. It includes the analysis of the terrestrial climatic system and the study of the factors and the elements of the climates of the Earth, and of the mechanisms that describe its climatic diversity. As detailed more during the first days of class, the subject also includes an obligatory field trip to a weather observatory.

Content

Bloc 1. Introduction. The Atmosphere.

Bloc 2. Components of the climatic system.

Bloc 3. Solar radiation and temperature.

Bloc 4. Humidity, clouds, and precipitation.

Bloc 5. Atmospheric pressure and winds. General atmospheric circulation.

Bloc 6. Regional study of climate. Climatic classifications.

Bloc 7. Climatic changes.

Bloc 8. The role of the global ocean.

Bloc 9. Past climatic changes from geologic archives.

Bloc 10. Field trip.