



Forest Ecology

Code: 100819 ECTS Credits: 6

Degree	Туре	Year	Semester
2500251 Environmental Biology	ОТ	4	0

Contact

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Teachers

Raul Garcia Valdes Jordi Margalef Marrase Sandra Saura Mas Rafael Poyatos López

Use of languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Prerequisites

Before enroling into the Forest Ecology course it is desirable that students have attained the learning skills corresponding to the following courses of their degree: Mathematics, Biostatistics, Natural Environment Prospecting, Botamy, Ecology and Vegetation Analysis.

Objectives and Contextualisation

The objective of this course is to prodice the knowledge and methodogical skills required for (1) learn the reality of forests, particularly in the Mediterranean region; (2) gain basic understanding on their functioning and dynamics; and (3) acquire notions on the main principles and tools used in forest management and logging practices. The course will be conducted respecting the diversity and plurality of ideas, people and situations. The student will need to use some of the mathematical and statistical toolls acquired in previous courses of the degree.

Content

The syllabus consists of 13 topics, structures in four blocs:

Bloc 1. What are forests and how do we study them?

- 1. From the tree to the forest.
- 2. The global importance of forests.

3. Describing a forest.

Bloc 2. Forest functioning

- 4. ¿How do trees work?
- 5. Primary production and carbon stocks in forests.
- 6. Water and nutrient fluxes in forests.

Bloc 3. Forest dynamics

- 7. Forets in time.
- 8. Forests and global change.
- 9. Modelling forests.

Bloc 4. Forest multifuntionality. Ecosystem services

- 10. Forest management and ecosystem services.
- 11. Logging and forestry.
- 12. Managing Mediterranean forests.