

Advanced Content in Terrestrial Ecology

Code: 42916
ECTS Credits: 6

Degree	Type	Year	Semester
4313774 Land Ecology and Biodiversity Management	OT	0	1

Contact

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Use of languages

Principal working language: spanish (spa)

Teachers

Daniel Sol Rueda
Raul Garcia Valdes

Prerequisites

The module does not require specific requirements.

Objectives and Contextualisation

The objective of the module is to provide students with an updated vision of the main foundations and approaches of terrestrial ecology with a particular emphasis on the most recent advances in the discipline as well as the main concepts that have been reviewed and consolidated throughout time. In addition, general aspects of the acquisition and limits of scientific knowledge through research, as well as transversal aspects that affect different topics, such as the formalization of ecological concepts, will be worked at different spatial and temporal scales.

Following these goals, the procedure for communication of the results of scientific research will be discussed, analyzing the structure of the scientific texts, mainly articles, and the writing and review process.

Content

General principles:

Scientific knowledge and channels of scientific communication

Fundamentals of terrestrial ecology:

Evolutionary ecology

Macroecology and Phylogeography

Autoecology and phenotypic plasticity

Structured Populations and Metapopulations

Loss of biodiversity and ecosystem functioning

Community assembly

Interspecific interactions: antagonism, facilitation, networks

Stoichiometric Ecology

Ecosystem Services

Global Change