



# Master in Biodiversity: from Evolution to Wildlife Management



## ADDRESSED TO:

- Professionals aiming to apply the scientific method to describe biodiversity patterns and manage terrestrial, freshwater, and marine wildlife in natural and human-modified ecosystems such as cities and agroecosystems.
- Graduates seeking to acquire skills to survey, analyze, and interpret data on the life-history of animals, plants, fungi, and microeukaryotes across multiple biological scales (individuals, populations, communities, ecosystems).
- Graduates interested in exploring the evolutionary history of organisms and the genetic and ecological factors that drive diversification.

## EXAMPLES FOR UB STUDENT PROFILES:

- UB marine science graduate aiming to expand your expertise in evolution and broaden your focus to include terrestrial and freshwater diversity.
- UB environmental science graduate willing to improve your scientific skills in evolution and conservation genetics, while acquiring hands-on experience in identifying flora and fauna in the field.
- UB biologist graduate aiming to acquire knowledge on biodiversity genomics, assessing wildlife conflicts, and the conservation and management of species and habitats.

**STRUCTURE: 60 ECTS credits with 2 specialties: Evolution and Wildlife Management & Conservation**  
**15 ECTS in Core Subjects + 12 ECTS of the Speciality + 15 ECTS in Optional Subjects + 18 ECTS in the Master's Thesis**

The Master's program is designed for one-year completion but can be extended to two years if you wish

### 3 Core Subjects (15 ECTS)

- Knowing and interpreting the Tree of Life (6 ECTS)
- Methods for biodiversity assessment (3 ECTS)
- Data management and analysis (6 ECTS)

### Speciality: EVOLUTION (12 ECTS)

- Phylogeny and Phylogeography (6 ECTS)
- Genomic Methods for the analysis of biodiversity (6 ECTS)
- Evolutionary Processes shaping Behaviour and the Structure of Biological Communities (6 ECTS)

### Speciality: Wildlife Management and Conservation (12 ECTS)

- Biodiversity Conservation in the Anthropocene (6 ECTS)
- Wildlife Management (6 ECTS)
- Biodiversity Functions and Ecosystem Services (6 ECTS)

### Optional Subjects for refining your professional profile (15 ECTS)

Agroecology (3 ECTS)  
 Population Viability Analysis (3 ECTS)  
 Ethnobiology (3 ECTS)  
 Conservation Genetics (3 ECTS)  
 Functional Adaptations of Animals to the Environment (3 ECTS)  
 Comparative Genomics (3 ECTS)  
 Trophic Relationships: stable isotopes and pellet analysis (3 ECTS)  
 Introduction and Optimization of data management in R (3 ECTS)  
 Geographic Information System Applications (3 ECTS)

Hands-on experience in Aquatic Biodiversity:  
 Practicum in Fluvial Biodiversity (3 ECTS)  
 Practicum in Marine Biodiversity (3 ECTS)

Hands-on experience in Terrestrial Biodiversity:  
 Practicum in Terrestrial Biodiversity at macroscale (3 ECTS)

**Master's Thesis on YOUR CHOSEN Research Topic (18 ECTS)**