



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Biodiversità e Conservazione

2021-1-F7501Q082

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#### Aims

The contents of the Biodiversity and Conservation course aim to provide the student with a solid awareness of the ongoing biodiversity crisis. Specifically, it aims to:

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The course includes practical activities such as field trips and data processing activities, which will allow to familiarize with the practice of conservation. Specifically, in the field, wildlife census programs will be simulated and, subsequently, in the laboratory, analyzes of the data collected will be carried out.

#### Contents

Threats to biodiversity. Destruction, fragmentation and degradation of habitats, introduction of alien species, climate change. Conservation status of fauna. Wildlife monitoring methods. Regulatory aspects relating to the

protection of fauna. Demographic models, Theory of island biogeography, Meta-populations, Minimum Viable Population and Extinction vortex. Ecological networks and models of environmental suitability.

## **Detailed program**

In the first part of the course will discuss the threatening factors to biological diversity and, in particular, the problems related to (a) the destruction, fragmentation, degradation of habitats, (b) the introduction of alien species, (c) the effect of xenobiotic, (d) the effect of climate change.

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## **Prerequisites**

Basic knowledge of zoology, botany, ecology, mathematics and statistics

## **Teaching form**

- Frontal lesson, 4 credits (remotely in case of prolongation of the emergency health situation)
- Field activities, 2 credits (replaced by remote activities in case of prolongation of the emergency health situation)

During the Covid-19 emergency, the class will take place completely remotely in asynchronously way, with some presence events

## **Textbook and teaching resource**

Primack R. Essential of Conservation Biology

Material provided by the teacher.

## **Semester**

First year, second semester

## **Assessment method**

Oral examination.

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Profit score in thirtieths and exam passed with a mark equal to or greater than 18/30.

## **Office hours**

By appointment upon request at the e-mail address: [luciano.bani@unimib.it](mailto:luciano.bani@unimib.it)

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