



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Ecologia del Paesaggio

2324-2-F7501Q046

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#### Course title

Landscape ecology

#### Topics and course structure

Concept of landscape, landscape models, analysis and management of natural and man-dominated landscapes

#### Objectives

**Knowledge of main topics of landscape ecology**

***Knowledge and understanding***

To know main landscape ecology schools and related theories

***Applying knowledge and understanding***

To know main criteria of ecological planning

***Making judgements***

To be able to evaluate different land management scenarios, to be able to evaluate scientific papers

***Communication skills***

To be able to expose principles and theories of landscape ecology learned during the course

### ***Learning skills***

To be able to read and understand scientific papers and technical documents dealing with landscape ecology

## **Methodologies**

Lesson, active teaching methodologies.

## **Online and offline teaching materials**

Slides and supplementary materials (paper and exercises) discussed in classroom

## **Programme and references**

### ***Short programme***

Meaning of world landscape, Landscape models, Landscape analysis, Planning and management of landscapes

### ***Detailed programme***

- Introduction
- Meaning of landscape
- Landscape ecology and ecological theory
- Landscape models
- Landscape systems at global level
- Landscape systems in Europe
- Landscape systems in Italy
- Patch Matrix Corridors Ecotones
- Ecological networks in agricultural landscapes
- Indicator and bioindicators at landscape scale
- Ecological footprint and ecosystem services at landscape level
- Habitat monitoring
- Landscapes and global change
- Mediterranean landscapes
- Mountain landscapes
- Urban landscapes
- Landscapes and infrastructures
- Restoration ecology at landscape scale
- Landscape epidemiology

### ***References:***

Scientific paper provided during the course and linked in the website of the course

## **Assessment methods**

Oral examination

The exam will evaluate the ability to understand scientific papers provided and the suggested book in order to connect them with topics of landscape ecology

Mark range: 18 - 30/30

## **Office hours**

Monday at 16.30 after appointment by e-mail

## **Programme validity**

One academic year

## **Course tutors and assistants**

Claudia Canedoli

Noemi Rota

## **Sustainable Development Goals**

NO POVERTY | ZERO HUNGER | GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | CLEAN WATER AND SANITATION | AFFORDABLE AND CLEAN ENERGY | INDUSTRY, INNOVATION AND INFRASTRUCTURE | REDUCED INEQUALITIES | SUSTAINABLE CITIES AND COMMUNITIES | RESPONSIBLE CONSUMPTION AND PRODUCTION | CLIMATE ACTION | LIFE BELOW WATER | LIFE ON LAND | PEACE, JUSTICE AND STRONG INSTITUTIONS | PARTNERSHIPS FOR THE GOALS

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