



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Data Analysis Applied to the Environment: Soundscape as Index (Curricular - Environment)

2021-94R-SCGA33

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#### Titolo

Data analysis applied to the environment: Soundscape as index of environmental quality

#### Docente(i)

Giovanni Zambon ; —

#### Lingua

English

#### Breve descrizione

The concept of soundscape will be applied to terrestrial and marine habitats through the analysis of both natural (geophonies and biophonies) and non-natural sounds (anthrophony, that is the complex of sounds produced by human activity).

Topics:

- Introduction to soundscape as index of environmental quality
- Introduction to “R” program and data analysis

- Introduction to clustering techniques, Principal Components Analysis and primary statistical tests
- Computation of indices performed in “R” environment
- Analysis and interpretation of the results

Evaluation: NO

### **CFU / Ore**

2 CFU - 20 Hours (8h lecture - 12h laboratory training)

### **Periodo di erogazione**

I semester

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