



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Introduction to sustainability

2223-DOTT-MOD11

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#### Title

Introduction to sustainability

#### Teacher(s)

Emilio Padoa-Schioppa, Matteo Colleoni, Patrizia Steca, Elisabetta Biffi

#### Language

English

#### Short description

##### Objectives

The aim of the course is to provide a transdisciplinary introduction to the concepts of sustainability.

1. Concept of sustainability (1 hour)
2. The Anthropocene epoch (1 hour)
3. Scientific approaches to sustainability (from thermodynamics to ecology) (1 hour)
4. Ecosystem services and Ecological Footprint evaluation (1 hour)
5. Sustainability in social sciences (1 hour)

6. Promoting sustainability through behavioral interventions (1 hour)
7. Social justice and social inclusion (1 hour)
8. Research topics and research opportunities in social sciences (1 hour)
9. "The (un)sustainable consequences of current urbanization and transport system" (2 hours)
10. Sustainability and research (2 hours)  
Short discussion of students (to organize/reading different papers about this theme and presenting some output) (4 hours)

**Target audience**

PhD students with not specific knowledge or skills in sustainability sci-ences, but that are interested in understanding how a transdisciplinary approach can leverage the change of paradigm needed to match sustainability goals.

**Participants**

Min 10 Max 50

**Notes**

The course style will be process-oriented and interactive. Theoretical inputs will be followed by exercises, partner work, role-plays, case studies and group-work, when appropriate. Each lesson will have focus on specific topic, with hooks with all the others. The language and the level of details will be tailored to the specific needs of the actual audience; in case of lack of basic elements or knowledge, these will be provided either by the lecturer or by providing PhD students with specific documents. During the lessons participants will receive references to the literature needed and vision papers, as well as suggestions of relevant platforms and websites that can be useful.

**CFU / Hours**

2 CFU / 16 hrs

**Teaching period**

07/02/2023 8:30 am -10:30 am U9.12  
09/02/2023 8:30 am -10:30 am U9.09  
22/02/2023 10:30 am -12:30 pm U9.09  
28/02/2023 2:30 pm - 5:30 pm U9.11  
08/03/2023 2.30 am - 5.30 pm U4.02  
09/03/2023 9.30 am - 1.30 pm U7.17

**course registration:** from 19/01/2023 to 02/02/2023

**Sustainable Development Goals**

QUALITY EDUCATION

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