



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO

Master degree in  
**Environmental  
change and global  
sustainability**

FACOLTÀ DI  
**Scienze e Tecnologie**

# Applications and admissions

Open, subject to entry requirements.

## Admission requirements

Applicants with an Italian degree (ex DM 270/04 or equivalent ex DM 509/99) from one of the following classes: Scienze per l'ambiente e la natura (L-32) or Scienze e tecnologie per l'ambiente e la natura (L-27) and from other undergraduate classes, provided they have earned at least 60 ects in specific scientific-disciplinary sectors specified in the Manifesto degli Studi.

Graduates with foreign qualifications obtained from international Universities access if their first-level degree is accepted as equivalent to an Italian degree by a Committee appointed by the Master degree, who will also ascertain that the international applicants meet curricular requirements in disciplines specified in the Manifesto degli Studi.

The entry requirement in English proficiency is level B2 or higher. The qualifications recognised by the University of Milan, with the corresponding CEFR levels, can be found at: [https://www.unimi.it/en/study/language-proficiency/placement-tests-and-.](https://www.unimi.it/en/study/language-proficiency/placement-tests-and-) Native English speakers and graduates from university first-level programmes entirely taught in English are exempted from producing any such language qualification.

Students without a documented B2 level may be accepted on condition that their level of English proficiency, assessed during the interview, is evidently good.

## Objectives

Environmental change plays a central role in modern societies, to the point that a sustainable management of the environment currently represents one of the most important open challenges for humanity. Addressing this challenge requires a multidisciplinary approach that overcomes the usual boundaries of scientific disciplines.

In this context, the Master degree in Environmental Change and Global Sustainability provides advanced expertise in the hard- and life-science components of environmental studies as well as in their economic- and social-science components. The general goal is to train students to tackle environmental change and sustainability in a multidisciplinary perspective. Students will therefore be provided with both a solid knowledge of the dynamics of the different components of the environment and a deep understanding of the tools required to promote its sustainable management and protection.

## Career prospects

The ECGS graduates will be able to tackle environmental change and sustainability in a multidisciplinary perspective. This ability benefits of advanced expertise in the hard- and life-science components of environmental studies, as well as in their economic- and social-science components.

ECGS graduates can achieve several different professional positions:

- Environmental manager in agro-food, energy and green economy companies, as well as in other companies in the industrial and service sectors;
- Environmental specialist in the public administration and in local governments;
- Environmental specialist in supra and international bodies and in national or international nongovernmental organizations;
- Specialist in environmental impact studies and strategic environmental assessments;
- Specialist in environmental analysis and monitoring.

# Degree syllabus

I year

COMPULSORY LEARNING ACTIVITIES COMMON ALL CURRICULA		ECTS
<b>I semester</b>		
Approaches to the study of ecological systems		8
Biodiversity dynamics and conservation		8
Environmental economics and policy		8
Quantitative methods		6
<b>II semester</b>		
Agricultural and natural resource economics and policy		8
Chemistry of natural processes and technologies for the environment		8
Statistical methods in environmental studies		6

ELECTIVE COURSES COMMON TO ALL CURRICULA: CHOOSE ONE COURSE BETWEEN		ECTS
<b>II semester</b>		
Geodiversity: theory and applications		8
Sedimentary successions and their natural resources for the energy transition		8

II year

(to be made available as of academic year 2023/2024)

## Curriculum: Environmental Systems: Management and Sustainability

COMPULSORY LEARNING ACTIVITIES	ECTS
18 ects to be earned by choosing 3 courses from: - Applied environmental and resource economics - Climate change: impact and adaptation - Economic botany and zoology - Ecosystem functioning and services - Environmental law - Environmental policy - Georesources and sustainability - Green procurement - Sustainable development - Recycle and life cycle assessment (LCA) of products and processes - Sustainability accounting and management	6+6+6

## Curriculum: Technological Processes and Environmental Sustainability

COMPULSORY LEARNING ACTIVITIES	ECTS
18 ects to be earned by choosing 3 courses from: - Alpine glaciology and climatology - Application of Remote Sensing to the monitoring of Agro-Environmental Changes - Bioresource and pollution control technology - Ecosustainable materials and processes - Ecosystem Functioning and Services - Environmental change and public health - Environmental Geochemistry - Food industry design, technology and innovation - Methods in ecotoxicology - Multilevel effects of environmental contamination - Waste management and sustainability	6+6+6

### Other activities

- 12 ects for free choice courses
- 9 ects for internship/stage
- 9 ects for Laboratory of environmental change and global sustainability
- The student will have to attend the "Safety for field activities" course
- Final dissertation (21 ects)

# INFO



 **Disciplinary classification:** Environmental and land sciences and technology (LM-75)

 **Duration:** 2 years (120 ects)

 **Curricula:**

- Environmental Systems: Management and Sustainability
- Technological Processes and Environmental Sustainability

 **Attendance:** strongly recommended

 **Location:**

- Settore Didattico - via Celoria, 20 - Milan

 **For information:**

[ecgs@unimi.it](mailto:ecgs@unimi.it)

 **Websites:**

[ecgs.cdl.unimi.it/en](http://ecgs.cdl.unimi.it/en)  
[www.unimi.it](http://www.unimi.it)



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO