



UNIVERSITÀ
DEGLI STUDI
DI MILANO

Master's degree programme in

Sustainable natural resource management

facoltà di

**SCIENZE AGRARIE
E ALIMENTARI**

Applications and admissions

Open, subject to entry requirements.

Admission requirements

- Students with an Italian University Degree
This master's degree course (MSc) can be accessed by holders of a BSc in Town, regional and environmental planning (L-21), Agricultural or Forestry sciences (L-25), or Environmental sciences (L-32).
Those with other bachelor's degrees who have acquired at least 30 ECTS in specific core disciplines specified in the Manifesto degli Studi will also be able to access it.
- Students without an Italian University degree
Those holding another qualification obtained abroad and recognized as suitable by the admission commission will also be able to access.

Admission procedure for all students

Admission requires the verification of the curricular requirements specified above and of personal preparation. These verifications are carried out by a Commission. The verification aims to ascertain the candidate's possession of the necessary preparation in the basic subjects. If needed, the commission may require the candidate to integrate the information provided. No oral interview or written examination is needed for admission.

Proficiency in English at a B2 level or higher, under the Common European Framework of Reference for Languages (CEFR), is required for admission.

Objectives

The purpose of the Degree Course is to train professionals able to provide technical and scientific support to public administrations (Local Authorities, Regions, Ministries, international agencies), as well as to private organizations, both from within (as a staff member) and externally (consultants) in the definition, implementation and management of policies on natural resources and common goods, and of their relations with human activities, with particular reference to sectors that use natural resources and collective goods and that produce goods and services and for which it is necessary to ensure sustainable management.

This study programme intends to provide a wealth of knowledge, skills and abilities combining technical-engineering and biological dimensions of natural, environmental and land resources management, with a view to achieving Green Deal and ecological transition goals. Graduates will understand the role of natural resources in economic activities, as well as master governance, design, conservation, regulation and restoration techniques that are required to ensure their sustainability, durability and protection. They will have high-level scientific and operational skills in the field of natural resources protection and enhancement; they will understand the technological and economic aspects of natural resources management, and will be equipped to perform a systemic analysis of the environment in its biotic and abiotic components and in the related interactions.

Career prospects

In the private sector, graduates can take on tasks of organization, evaluation, management and responsibility for problems that may involve an interaction between human activities and environmental systems. Graduates can enroll in the Italian Register of Agronomists and Forestry Doctors, after passing the State exam. In the public sector, they can support administrations on environmental and territorial policies, with particular reference to sustainable planning and management of the territory and natural resources, environmental protection, analysis and monitoring of environmental systems, design and implementation of interventions for the defense and conservation of soil and water resources, for the restoration and conservation of biotic and abiotic components of ecosystems.

More specifically, due to their skills, graduates will be able to find employment in:

- national and regional bodies and services for the defense and development of the environment and the territory (State Technical Services, National and Regional Agencies and Bodies for the Environment and the Territory, Parks and Protected Areas, Watershed Authorities, Technical Services and Regional, Provincial and Municipal Departments, Land Reclamation and Irrigation Consortia, Mountain Communities and Mountain Watershed Consortia);
- laboratories, professional offices and service companies operating both in the field of environmental and territorial planning and management, and in environmental monitoring and recovery;
- companies operating in the environmental, forestry, green infrastructure and environmental remediation management;
- companies operating in the protection and conservation of soil and water resources;
- environment and territory division of large companies;
- freelance professional in the environmental, agricultural, forestry, land and landscape sectors.

Degree syllabus

1st year

COMPULSORY LEARNING ACTIVITIES	ECTS
1st semester	
Data management	6
Hydrology	6
Natural resource economics	6
2nd semester	
Environmental law	6
Land planning and life cycle assessment	6
Statistical methods for the environmental research	6

ELECTIVE COURSES

Table 1

For students holding an Italian degree in the class L-25 Agricultural sciences and technologies, or having a similar background if graduated abroad:

1 st semester	Ecology	6
1 st semester	Land use law and public procurement	6

Table 2

For students holding an Italian degree in the class L-21 Territorial, urban, landscape and environmental planning sciences, or having a similar background if graduated abroad:

1 st semester	Agricultural systems and soil science	6
1 st semester	Ecology	6

Table 3

For students holding an Italian degree in the class L-32 Sciences and technologies for the environment and nature, or having a similar background if graduated abroad:

1 st semester	Agricultural systems and soil science	6
1 st semester	Law of territorial government and public contracts	6

Table 4

A first laboratory to be chosen from:

**ECTS
PARTIAL**

**ECTS
TOTAL**

2nd semester

Allelopathy in sustainable land management - Module: Chemistry of natural molecules - Module: Allelopathic interactions	5 10	15
Ecological and forest restoration - Module: Functional ecology and forest restoration - Module: Remote sensing for forest restoration - Module: Soil dynamics in ecosystem restoration	9 3 3	15
Green infrastructures and nature-based solutions - Module: Applied botany and woody species in landscape design - Module: Green infrastructures planning and design - Module: Stream restoration	6 5 4	15

2nd year

(to be made available as of academic year 2027/2028)

Table 5 A second laboratory to be chosen from:	ECTS PARTIAL	ECTS TOTAL
<i>1st semester</i>		
Agricultural water management - Module: Economic and environmental assessment of water resource - Module: Farming system and water quality - Module: Water resource assessment	3 4 8	15
Bioremediation - Module: Environmental chemistry - Module: Environmental microbiology and phytoremediation	5 10	15
Forest management and planning - Module: Assessment and mitigation of hydrogeological risk in the mountain environment - Module: Economic and environmental assessments of forest land management - Module: Sustainable management of mountain forests	6 3 6	15

Other activities

- 15 ects of elective choice, to be acquired with courses offered by the University of Milan. Part of these 15 ects (normally up to 4) can be acquired by attending seminars, conferences, courses, or other activities organized by the University or another institution. These 15 ects can be acquired with a third laboratory.
- Additional Language Skills: technical English (for Italian students, or for international students without an Italian degree or diploma); Italian (for international students without an Italian degree or diploma that do not chose technical English) (3 ects).
- Final exam (24 ects).

INFO

- 🎓 **Disciplinary classification:** Forestry and environment (LM-73 R)
- 🕒 **Duration:** 2 years (120 ECTS)
- 📅 **Attendance:** Lesson attendance is strongly suggested.
- 📍 **Location:**
Via Celoria, 2 - Milano
- 🌐 **Websites:**
snrm.cdl.unimi.it/en
www.unimi.it



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