



UNIVERSITÀ
DEGLI STUDI
DI MILANO

Master's degree programme in
**Global environment and
development**

FACOLTÀ DI

Scienze Agrarie e Alimentari

Environment and Development (MERGED) is an Erasmus Mundus Joint Master, taught in English and jointly hosted by three Universities: University of Milan, University of Warsaw (Poland), University of Copenhagen (Denmark)

Applications and admissions

Limited enrolment

Admission requirements

MERGED is an international course that can be accessed by students who have completed three-year degree courses from different university systems. The range of disciplines is wide because the nature of the master is strongly interdisciplinary, and its teaching capacity depends on the presence of students with various backgrounds.

For graduates from Italian universities, the following degree classes are considered eligible: L-2 (Biotechnology), L-13 (Biological Sciences), L-18 (Economics and Business Management), L-21 (Sciences of territorial, urban, landscape and environmental planning), L-25 (Agricultural and forestry sciences and technologies), L-26 (Agri-food sciences and technologies), L-32 (Sciences and technologies for the environment and nature), L-36 (Political sciences and international relations), L-37 (Social sciences for co-operation, development and peace), L-38 (Zootechnical sciences and animal production technologies). Students from different Italian degrees can access if they have acquired at least 60 ECTS in specific disciplinary scientific sectors.

For students coming from foreign universities, the following disciplinary areas are considered eligible: Agriculture, Agronomy, Agrobiology, Agricultural Economics, Forestry, Animal Science, Biochemistry, Biology, Biotechnology, Food and Nutrition, Food Science, Geography, Geology, Geoinformatics, Landscape Architecture, Natural Resources, Anthropology, Psychology, Sociology, Development Studies, Rural Development, Economics, Interdisciplinary Economic-managerial studies, Environmental Science, Natural Science.

Knowledge of the English language equal to level C1 of the Common European Framework of Reference or equivalent is required.

An international selection panel (the Commission) evaluates the candidate's preparation. The Commission considers the submitted documentation including the academic curriculum, a motivation letter and references, to better calibrate the didactic compatibility of the student with the Master course.

Students without an Italian degree or diploma can obtain 3 credits in "Additional language skills: Italian", reaching a proficiency in Italian language at level A2 (Common European Framework of Reference for Languages, CEFR).

Objectives

The Master's degree programme creates globally competitive graduates that can identify critical aspects of sustainable natural resource management for economic, environmental, institutional, and societal development in both the global South and North, and develop sustainable, appropriate, and feasible solutions. The programme educates high-quality digitally competent graduates to become professionals in private and public companies, I/NGOs, government bodies, and research institutions.

Through interdisciplinary and disciplinary, multicultural real-life experiences and laboratory experiments, students will learn to identify, analyse, understand, and forecast complex systems. MERGED provides two curricula: in Agricultural Development (at the university of Milano) or in Sustainable Environmental Development (at the university of Warsaw).

Career prospects

The skills acquired allow to work in companies and organizations that operate - even globally - in the green economy and bio-economy; in professional studies dealing with territorial analyses, agricultural environmental impact assessment, resource management in rural environments. MERGED graduates find employment in the public administration and in local public bodies; in supranational organizations; in universities or research institutes (in Italy, for example, CNR, ENEA, CREA, State Technical Services, National and Regional Agencies and Bodies for the Environment and the Territory, Parks and Protected Areas, Watershed Authority, Technical Services and Regional Provincial and Municipal Departments, Land Reclamation and Irrigation Consortia, Mountain Communities and Mountain Watershed Consortia). Furthermore, they can work at NGOs globally, where they are able to understand and design the development of agricultural systems even under climate change.

In the private sector, the graduate can organize, evaluate and manage the interaction between agri-environmental activities and systems.

In the public sector, the graduate supports the Administrations on environmental and territorial policies, especially on issues related to sustainable husbandry and agricultural engineering. International bodies are career opportunity provider for MERGED graduates.

MERGED graduates can disseminate, within institutions, the principles of environmental sustainability, promote a culture oriented towards the protection of the agricultural environment, also through the awareness of public opinion.

The master's degrees of the LM-69 class allow to access the exam to be qualified as Doctor of Agronomy.

Syllabus

1 year

COMPULSORY LEARNING ACTIVITIES	ECTS
Global challenges in environment and development	8
Practicing interdisciplinarity: field research on the environment	15
Quantitative and qualitative methods in environment and development	7
Elective teachings at university of Copenhagen for the mobility track Agricultural Development - University of Milan: choose 30 ects	
- Advanced Crop Production	8
- Agricultural value chains in developing countries	7
- Agroforestry	8
- Applied Insect Ecology and Biological Control	7
- Applied statistics	7
- Climate change and land use	7
- Climate Management in Plant Production and Research	8
- Entrepreneurship and innovation	7
- Environmental impact assessment	8
- Global environmental governance	7
- Land use and environmental modelling	7
- Plant ecophysiology in a changing climate	7
- Plant genome editing and selection	7
- Plant Nutrition and Soil Fertility	8
- Tropical Crop Production	7
- Tropical forest restoration	7

II year
(available as of academic year 2024/2025)

COMPULSORY LEARNING ACTIVITIES	ECTS
Laboratory in sustainability of agricultural mechanization	6
Laboratory in sustainability of livestock systems	7
Laboratory in sustainability of water management	6
Practical/experimental internship	17
Elective teachings at University of Milan for the mobility track Agricultural Development <ul style="list-style-type: none">- Agricultural systems and soil science- Bioeconomy: management, assessment and intellectual property- Environmental plant biotechnology- Environmental plant biotechnology- Land planning and life cycle assessment- Natural resource economics- Plant as biofactories- Statistical methods for the environmental research	6
8 credits free-choice courses, including 3 ECTS from the intra-semester workshop. The workshop is a strongly recommended, EU funded, interdisciplinary activity for all students, i.e. students from the university of Milano and from the university of Warsaw. The teaching tutors support students in selecting the elective courses.	8
Final exam	7

INFO

🎓 **Disciplinary classification:** Agriculture (LM-69)

🕒 **Duration:** 2 years (120 ects)

📅 **Attendance:** Strongly recommended

📍 **Location:**
- via Celoria, 2 - Milano

🌐 **Websites:**
merged.info
www.unimi.it



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