



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**MANIFESTO DEGLI STUDI A.A. 2022/23**  
**LAUREA MAGISTRALE IN**  
**ENVIRONMENTAL AND FOOD ECONOMICS (Classe LM-76)**  
**Immatricolati dall'anno accademico 2014/15**

### **GENERALITA'**

<b>Classe di laurea di appartenenza:</b>	LM-76 SCIENZE ECONOMICHE PER L AMBIENTE E LA CULTURA
<b>Titolo rilasciato:</b>	Dottore Magistrale
<b>Curricula attivi:</b>	
<b>Durata del corso di studi:</b>	2 anni
<b>Crediti richiesti per l'accesso:</b>	180
<b>Cfu da acquisire totali:</b>	120
<b>Annualità attivate:</b>	2°
<b>Modalità accesso:</b>	Libero con valutazione dei requisiti di accesso
<b>Codice corso di studi:</b>	K07

### **RIFERIMENTI**

#### **Presidente Collegio Didattico**

Prof.ssa Valentina Raimondi

#### **Docenti tutor**

Study plan tutor:

Alessandro Olper - wednesday 14.30-18.30

Alessandro Banterle - tuesday 14.30-18.30

Andrea Ganzaroli - for an appointment write to [andrea.ganzaroli@unimi.it](mailto:andrea.ganzaroli@unimi.it)

Valentina Raimondi - thursday 10.30-13.00

Erasmus and International mobility tutor:

Luigi Orsi - for an appointment write to [luigi.orsi@unimi.it](mailto:luigi.orsi@unimi.it)

#### **Sito web del corso di laurea**

<https://efe.cdl.unimi.it/en>

#### **Department of Environmental Science and Policy**

<http://esp.unimi.it>

#### **EFE Secretariat**

Via Celoria 2 - Milano Città Studi Tel. +39 02 503 16501 / +39 02 503 16475 It's preferable to contact the secretariat by e-mail [efe@unimi.it](mailto:efe@unimi.it)

#### **E-mail**

Email: [efe@unimi.it](mailto:efe@unimi.it)

#### **International Students Office**

Via S. Sofia 9/1 - Milano <https://www.unimi.it/en/international/coming-abroad/international-students-office-welcome-desk>

Email: [international.students@unimi.it](mailto:international.students@unimi.it)

#### **Students administrative office**

via Celoria 18 - Milano Città Studi Tel. 0250325032 <https://www.unimi.it/it/node/360> <https://www.unimi.it/it/node/359>

#### **Link al regolamento del C.D.S.**

<https://www.unimi.it/it/corsi/corsi-di-laurea/environmental-and-food-economics>

### **CARATTERISTICHE DEL CORSO DI STUDI**

#### **Obiettivi formativi generali e specifici**

The relationship between the environment, natural resources, and the agri-food system plays a central role in the development of modern societies. The issues of sustainable economic development, the management of natural and energy resources, and the sustainability of the agri-food system represent new economic and policy challenges. The Master degree in Environmental and Food Economics provides the conceptual and analytical tools for participants to be able to address

those challenges. Advanced expertise in economics and business administration and management, quantitative methods, and specific theoretical and applied knowledge in environmental and natural resource economics and in the economics and management of the agri-food chain is provided. The aim is to equip students with a solid understanding of the instruments to promote sustainable economic development, the management of natural resources (water, soil, energy), environmental and energy policies, management and innovation of the agri-food sector, internationalization of agri-food companies, food security issues and rural development. The Master degree in Environmental and Food Economics represents a novelty in the Italian university system, by combining topics of environmental and climate change economics with the economics and management of the agri-food sector, carefully selects the contents of its courses, and for being taught entirely in English.

### **Risultati di apprendimento attesi**

In the spirit of harmonization of education within the European Union, graduates of this Master programme are expected to achieve the following standards according to the so-called Dublin Descriptors:

#### **A. Knowledge and understanding**

Graduates will gain advanced theoretical knowledge and expertise in the following fields: Economics, Accounting and Management, Mathematics and Statistics, and Environmental and Food Law.

As to Economics, the courses offered include: advanced microeconomics, environmental and natural resource economics, sustainable development, energy economics, agri-food economics, international trade. The theories and the analytical tools taught in the program will enable students to understand and apply economic principles to the complex phenomena characterizing the environment, natural resources, climate change and energy markets, as well as to the functioning of domestic and international agri-food markets and related policies.

As to Accounting and Management, the courses offered include: accounting, environmental management, management of the international food chain, marketing and consumer behavior. The knowledge and skills acquired in this area will enable graduates to understand issues and problems of business management, with specific attention to the green business and green marketing, internationalization strategies for the agri-food firms, and to the issues related to consumer behavior.

The courses offered in the area of Mathematics and Statistics include: mathematics for economics and statistics and econometrics. Students are expected to learn how to carry out quantitative analyses of business and economic problems, as well as of environmental, energy and agri-food policies.

In the Law area the main focus will be on environmental and food law. The lectures will provide the ability to understand the norms and laws that characterize the environment and agri-food sectors, as well as the legal aspects of international agreements on the environment and trade.

#### **B. Applying knowledge and understanding**

Graduates will be able to apply the knowledge and skills acquired in the Master programme to: 1) the analysis and management of issues in the area of sustainable development and of natural resources, and in green and agri-food marketing; 2) the analysis of public policies for the environment, energy, and agri-food markets; 3) the economic analysis of climate change; 4) the analysis of energy and food markets; 5) the evaluation of the sustainability of food production and consumption; 6) the study of agri-food firms' behavior in international markets; 7) the analysis of food safety and nutrition policies; 8) food security and rural development in developing countries.

#### **C. Making judgments**

The Master programme will grant graduates the ability to make judgments and to critically investigate the effects and effectiveness of the economic and policy decisions related to the environment, the energy and the agri-food sector, including the ethical implications of these decisions and actions. They will be able to critically evaluate the effectiveness and consequences of company strategies aimed to deal with problems of sustainability and internationalization. The multidisciplinary approach of this course is designed to foster the development of independent judgment and critical thinking capabilities by offering students the opportunity to compare methodological approaches in different disciplines.

#### **D. Communication Skills**

Graduates will be able to present and communicate effectively within companies and institutional bodies, at both national and international level, the results of their work (projects, reports, documents, analytical studies, research papers, etc.). They will be able to state and defend their positions and opinions and to communicate clearly and effectively in both written and oral forms, as well as to set up cooperative relationships and collaborative work within groups. The ability to communicate effectively in the workplace is primarily gained through presentation and discussion of case studies, a practice that is compulsory for several courses and during the final dissertation.

#### **E. Learning skills**

Graduates will learn how to develop and improve their learning skills through the access to and the consultation of the scientific literature, of databases and other online information, and by analyzing data using econometric and statistical tools. The Master degree in Environmental and Food Economics also provides the methodological skills and the knowledge base that make it possible for graduates to continue their studies in doctoral programs. Master students have also the opportunity to attend the other activities organized by the Department of Environmental Science and Policy, such as applied laboratories, seminars, and workshops, so as to improve their ability to understand scientific challenges and develop new topics of research.

### **Profilo professionale e sbocchi occupazionali**

The Master degree in Environmental and Food Economics is organized in two curricula: i. Environmental and Energy Economics; ii. Economics and Management of the Agri-Food System. The professional profiles that characterize the two curricula can be summarized as follows.

The professional profile of the Environmental and Energy Economics curriculum is more oriented to the world of institutions, both public and private, with job opportunities in national, EU, and international institutions, public administration, Energy Authorities, FAO, OECD, European Commission, public and private research organizations, and research departments of large national and multinational companies, as well as the green economy.

The professional profile of the Economics and Management of the Agri-Food System curriculum is more oriented to the world of private business with job opportunities in agri-food companies (small and medium enterprises, multinationals, GDO), as well as in producer organizations and national, EU, and international institutions that carry out research and studies in the fields of agricultural and food policies, food security, and rural development (FAO, World Bank, OECD, and the European Commission).

### **Conoscenze per l'accesso**

To attend the Master programme in Environmental and Food Economics it is necessary to possess an adequate knowledge of mathematics, economics and statistics at the undergraduate level. The Master programme can be attended by students with an Italian three-year undergraduate degree (ex. DM 270/04 or equivalent ex. DM 509/99) in any one of the following classes:

Geografia (L-6),

Ingegneria civile e ambientale (L-7), Ingegneria dell'informazione (L-8), Ingegneria industriale (L-9), Scienze biologiche (L-13),

Scienze del turismo (L-15),

Scienze dell'amministrazione e dell'organizzazione (L-16), Scienze dell'economia e della gestione aziendale (L-18),

Scienze della pianificazione territoriale, urbanistica paesaggistica e ambientale (L-21), Scienze e tecnologie agrarie e forestali (L-25),

Scienze e tecnologie alimentari (L-26), Scienze e tecnologie chimiche (L-27), Scienze e tecnologie fisiche (L-30), Scienze e tecnologie informatiche (L-31),

Scienze e tecnologie per l'ambiente e la natura (L-32), Scienze economiche (L-33),

Scienze geologiche (L-34), Scienze matematiche (L-35),

Scienze politiche e delle relazioni internazionali (L-36),

Scienze sociali per la cooperazione, lo sviluppo e la pace (L-37), Sociologia (L-40),

Statistica (L-41), Storia (L-42),

Tecnologie per la conservazione e il restauro dei beni culturali (L-43).

Students having obtained an undergraduate degree in classes other than those listed above and students with foreign degrees are admitted to the programme subject to a favorable decision by the Didactic Committee or by an ad hoc committee named by it.

To attend the degree course, graduates from the three-year and master's degree classes listed above, must have acquired at least 90 ECTS in the scientific-disciplinary sectors in previous studies:

a. FIS/01-FIS/07, MAT/01-MAT/09, SECS-S/01-SECS-S/05, SECS-S/06 (mathematics, physics, and statistics)

b. AGR/01, ING-IND/35, SECS-P/01-SECS-P/06, SECS-P/07-SECS-P/11, SECS-P/12 (business administration, economics, and management)

c. AGR/02-AGR/20, BIO/01-BIO/19, CHIM/01-CHIM/12, GEO/01-GEO/12 (agricultural, biological, chemical, and geological sciences)

d. ICAR/01-ICAR/22, ING-IND/09, ING-IND/22-ING-IND/30, ING-IND-34 (architecture and engineering)

e. INF/01, ING-INF/05, ING-INF/06 (computer science)

f. IUS/01-IUS/10, IUS/12-IUS/14, IUS/21 (law)

g. SPS/01-SPS/14 (social sciences)

There are minimum requirements in order to be admitted to the programme:

- at least 6 ECTS credits in the area of mathematics and statistics (MAT/01 - MAT/09, SECS-S/06);

- at least 6 ECTS credits in the area of economics and agricultural economics (AGR/01, SECS-P/01 - SECS-P/06, ING-IND/35);

- at least 6 ECTS credits in the area of management (AGR/01, SECS-P/07 - SECS-P/11, ING-IND/35);

Students who do not comply with the above prerequisites can fulfill them by attending crash courses in the above areas to be held starting at the end of August (see official course's website <https://efe.cdl.unimi.it/en>). (Note, crash courses are only for admitted students).

Students with foreign qualifications are expected to meet requirements equivalent to the minimum ones required from students with an Italian degree. The existence pre-requisites will be verified by a special committee appointed by the Didactic Committee.

In addition, applicants must meet one of the following requirements: 1. be English mother tongue; 2. have obtained a high-school diploma in English; 3. have obtained a Bachelor's or other first-level university degree in English. Students who do not meet any of the requirements listed in points 1, 2 and 3 must have a B2 level or higher in English, according to the Common European Framework of Reference for Languages (CEFR). For an overview of CEFR levels, please see: <https://www.unimi.it/en/study/language-proficiency/placement-tests-entry-tests-and-english-courses>. The certification must be uploaded when submitting the online application.

Students meeting the above requirements are invited to an interview for admission (in English). The interview, done remotely via electronic devices if necessary, is aimed at verifying the motivations of the candidates, and the above mentioned skills.

Please consult the degree course web site for further information and updates: <https://efe.cdl.unimi.it/en>.

### **Struttura del corso**

The Master degree in Environmental and Food Economics (EFE) is an internationally oriented high-quality programme designed to provide students with both an excellent academic background and a practical attitude.

The degree guarantees a promising outlook for a future professional career in today's challenging fields of the economics of sustainability and of the management of the agricultural and food (agri-food for short) system.

The Master degree is comprised of teaching and other educational activities for a total of 120 ECTS and it is entirely taught in English.

#### **- Programme structure**

The first year of the program initially provides a series of teachings instrumental to the disciplines involved in the master (mathematics, statistics, econometrics, law, economic history). Then its organization is balanced with common core teachings in the following areas: business (accounting, environmental management), economics (microeconomics, environmental & natural resource economics), and the environment (agri-food economics, International agri-food markets and policy). The two curricula start from the end of the first year.

Curriculum A – Environmental and Energy Economics – aimed to provide professional training in energy and environmental economics, and focused on sustainable economic development, evaluation of environmental assets, energy markets and policies, management of natural and environmental resources, environmental policies, economic impact assessment of climate change, adaptation strategies and mitigation policies and international agreements on climate change.

Curriculum B – Economics and Management of the Agri-Food System – aimed to provide professional training in the management and administration of national and international companies in the agri-food sector, and the analysis of economic and policy problems of the agri- food system. Skills and competences are provided to analyze and manage problems caused by economic and trade integration, to deal with internationalization issues, to assess company strategies, to study and manage national and international value chains, consumer behavior, marketing strategies, food security issues and rural development.

#### **- Compulsory attendance**

Attendance is strongly recommended

#### **- Study plan definition and submission for approval**

Students have to submit their study plans in the first year of course, from February 1, 2023 to February 28, 2023.

Consult the website: <https://www.unimi.it/en/study/bachelor-and-master-study/following-your-programme-study/plan-study>

#### **- Lecture timetable**

The first Semester starts on September 26, 2022 and ends on January 20, 2023

Suspension period for exam sessions and interim assessments: 14-18 November 2022

The second Semester starts on February 27, 2023 and ends on June 16, 2023

Suspension period for exam sessions and interim assessments: 17-21 April 2023

The timetable will be available at <https://www.unimi.it/en/node/128/>

#### **- Exams**

<https://efe.cdl.unimi.it/en/study/exams>

#### **- Tutoring**

Tutors will provide students with academic advice, guidance for course choice and personal advice. Students can contact

the tutors at their standard institutional email addresses.

- Stage

Stage's 3 ECTS are obtained by carrying out an internal or external internship – that is usually linked to the thesis.

- Suggested pre-requisites:

1. Mathematics for economics for the Advanced Microeconomics course;
2. Others prerequisites can be suggested by professors.

**Area didattica**

Faculty of Agricultural and Food Sciences - Via Celoria, 2 - 20133 MILAN

**Caratteristiche della prova finale**

To be admitted to the final exam students must have earned 99 ECTS credits.

The Master degree in Environmental and Food Economics is completed by a final exam worth 21 ECTS.

This test is composed of the preparation and public discussion of an original thesis drawn up by the student under the guidance of a thesis supervisor.

This thesis must be drawn up and discussed in English.

***ESPERIENZA DI STUDIO ALL'ESTERO NELL'AMBITO DEL PERCORSO FORMATIVO***

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment.

The agreements entered into by the University with over 300 universities from the 27 EU member countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organizations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

**Cosa offre il corso di studi**

• ERASMUS+ PROGRAM

The degree in Environmental and Food Economics offers the opportunity to study at several European universities, where students will be able to attend lectures and obtain credits for their degree. Our partners are selected among the most prestigious academic institutions: France (Rennes), Finland (University of Helsinki), Germany (University of Göttingen), Greece (University of Athens), Netherlands (Wageningen University), Poland (University of Warsaw), Spain (University of Madrid-Politecnica), Switzerland (University of Geneva).

Erasmus+ also provides Placements, that is, the opportunity for a traineeship in companies and other organisations abroad. The new Erasmus+ program provides the following new study and placement opportunities: a) 12 months abroad (study periods and placements); b) placements, including for new graduates (within 12 months of completing a degree). Students who have already studied or had a placement abroad may apply to Erasmus+ nevertheless remembering that the possible total of 12 months for each Erasmus+ study cycle include the months previously spent abroad.

**Modalità di partecipazione ai programmi di mobilità - mobilità Erasmus**

The students of the University of Milan can participate in mobility programmes, through a public selection procedure.

Ad hoc commissions will evaluate:

- Academic career
- the candidate's proposed study programme abroad
- his/her foreign language proficiency
- the reasons behind his/her application

**Call for applications and informative meetings**

The public selection for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organizes informative meetings to illustrate mobility opportunities and rules for participation.

**Erasmus+ scholarship**

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be supplemented by the University funding for disadvantaged students.

**Language courses**

Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each

year by the University Language Centre (SLAM).  
<https://www.unimi.it/en/node/8/>

Learn more at <https://www.unimi.it/en/node/274/>

For assistance, please contact:  
International Mobility Office  
Via Santa Sofia 9 (second floor)  
Tel. 02 503 13501-12589-13495-13502  
Contacts: InformaStudenti; [mobility.out@unimi.it](mailto:mobility.out@unimi.it)  
Student Desk booking through InformaStudenti

## MODALITA' DI ACCESSO: 1° ANNO LIBERO CON VALUTAZIONE DEI REQUISITI DI ACCESSO

### Informazioni e modalità organizzative per immatricolazione

<https://www.unimi.it/en/study/enrolment>

### N° posti riservati a studenti extracomunitari non soggiornanti in Italia

20

## MODALITA' DI ACCESSO: 2° ANNO LIBERO

1° ANNO DI CORSO (disattivato dall'a.a.2022/23) Attività formative obbligatorie comuni a tutti i curricula				
Erogazione	Attività formativa	Modulo/Unità didattica	Cfu	Settore
	Advanced microeconomics		8	SECS-P/01
	Environmental accounting and management (tot. cfu:12)	Accounting	6	SECS-P/07
		Environmental management	6	SECS-P/08
	Mathematics for economics		6	MAT/06
	Economics and politics of the agrifood sector (tot. cfu:14)	Agrifood economics	7	AGR/01
		International agrifood markets and policies	7	AGR/01
	Environmental and natural resource economics		8	SECS-P/01
	Statistics and econometrics		9	(6) SECS-S/01, (3) SECS-P/05
		Totale CFU obbligatori	57	
2° ANNO DI CORSO Attività formative obbligatorie comuni a tutti i curricula				
Erogazione	Attività formativa	Modulo/Unità didattica	Cfu	Settore
1 semestre	Environmental and food law		6	IUS/13
2 semestre	Economic history		6	SECS-P/12
		Totale CFU obbligatori	12	
Altre attività a scelta comuni a tutti i curricula				
Open choice courses: 9 CFU				
The student can employ part or all of the 9 CFU of freely chosen activities in attending one ore more of the following courses:				
2 semestre	Food Industry Design Technology and Innovation		6	AGR/15
2 semestre	Project Management for Sustainable Development		3	SECS-P/08
2 semestre	The Politics of the Environment		3	SPS/04
2 semestre	Water resources sustainable economy		3	ICAR/02
Attività conclusive comuni a tutti i curricula				
	Final exam		21	NA
	Stage		3	NA
		Totale CFU obbligatori	24	

## ELENCO CURRICULA ATTIVI

ENVIRONMENTAL AND ENERGY ECONOMICS Annualità attivate: 2°  
ECONOMICS AND MANAGEMENT OF THE AGRI-FOOD SYSTEM Annualità attivate: 2°

## CURRICULUM: [K07-A] ENVIRONMENTAL AND ENERGY ECONOMICS

### Obiettivi Formativi Qualificanti

The curriculum in Environmental and Energy Economics aims to equip students with a solid understanding of the

instruments to promote sustainable economic development, the management of natural resources (water, soil, energy), environmental and energy policies.

#### Risultati di apprendimento attesi

The curriculum in Environmental and Energy Economics aims to provide professional training focused on sustainable economic development, energy markets and policies, and economic impact assessment of climate change.

#### Profilo professionale e sbocchi occupazionali

The Environmental and Energy Economics curriculum is more oriented to the world of private and public institutions, with job opportunities in national, EU, and international institutions, public administration, Energy Authorities, FAO, OECD, European Commission, public and private research organisations, and research department of large national and multinational companies as well as the green economy.

<b>2° ANNO DI CORSO Attività formative obbligatorie specifiche del curriculum ENVIRONMENTAL AND ENERGY ECONOMICS</b>				
<b>Erogazione</b>	<b>Attività formativa</b>	<b>Modulo/Unità didattica</b>	<b>Cfu</b>	<b>Settore</b>
1 semestre	Energy economics		6	SECS-P/01
2 semestre	Global and climate change economics		6	SECS-P/01
2 semestre	Sustainable development		6	SECS-P/01
Totale CFU obbligatori			18	

#### **CURRICULUM: [K07-B] ECONOMICS AND MANAGEMENT OF THE AGRI-FOOD SYSTEM**

#### Obiettivi Formativi Qualificanti

The curriculum in Economics and Management of the Agri-food System aims to equip students with a solid understanding of the instruments to promote management and innovation of the agri-food sector, internationalization of agri-food companies, food security issues and rural development.

#### Risultati di apprendimento attesi

The curriculum in Economics and Management of the Agri-food System aims to provide professional training focused on the management of national and international value chains, consumer behavior and marketing strategies, food security issues and rural development.

#### Profilo professionale e sbocchi occupazionali

The Economics and Management of the Agri-food System curriculum is more oriented to the world of private business with job opportunities in agri-food companies (small and medium enterprises, multinationals, GDO) as well as in producer organizations and national, EU, and international institutions that carry out research in agricultural and food policies, food security, and rural development (FAO, World Bank, OECD, and European Institutions).

<b>2° ANNO DI CORSO Attività formative obbligatorie specifiche del curriculum ECONOMICS AND MANAGEMENT OF THE AGRI-FOOD SYSTEM</b>				
<b>Erogazione</b>	<b>Attività formativa</b>	<b>Modulo/Unità didattica</b>	<b>Cfu</b>	<b>Settore</b>
1 semestre	Food chain in the global market		6	AGR/01
1 semestre	Food marketing and consumer behavior		6	AGR/01
2 semestre	Food security and rural development		6	AGR/01
Totale CFU obbligatori			18	