



UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2020/21
BACHELOR

Agrotechnologies for the Environment and the Territory (Classe L-25)
Enrolled from 2019/20 academic year

HEADING

Degree classification - Denomination and code:	L-25 Agriculture and forestry industry
Degree title:	Dottore
Length of course:	3 years
Total number of credits required to complete programme:	180
Years of course currently available:	1st , 2nd
Access procedures:	Cap on student, student selection based on entrance test
Course code:	G26

PERSONS/ROLES

Head of Study Programme

Prof. Luca Bechini

Tutors - Faculty

Tutor per i piani di studio:

A-C Lucia Cavalca

D-G Maria Laura Deangelis

H-P Gianluca Galassi

Q-S Anna Spinardi

T-Z Guido Sali

Degree Course website

<https://aat.cdl.unimi.it/>

Phone 0250316590 Email: didattica.disaa@unimi.it

via Celoria 2 - Milano Città Studi Apertura al pubblico: dal lunedì al venerdì dalle ore 10 alle ore 12 Email: didattica.agraria@unimi.it

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

L'abbinamento tra l'iniziale del cognome degli studenti e il docente tutor è consultabile nel Manifesto degli studi:

https://apps.unimi.it/files/manifesti/ita_manifesto_G26of2_2021.pdf

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

The Degree Course in Agro-Technologies for the Environment and the Landscape aims to train professionals endowed with interdisciplinary skills capable to apply agro-technologies to the several issues related to the efficient and sustainable use of natural resources, to the planning and physical management of landscape and environment, and to the containment of the undesirable environmental effects of agricultural activities. These objectives are pursued by emphasizing the multi-functionality of agricultural activities that nowadays appears the most up-to-date interpretation of their economic and social roles. Therefore, the Degree Course is characterized by the strong attention to the issues typical of the supra-enterprise scale as well as to the interactions among agricultural activities and other uses of the territory.

Expected learning outcomes

After completing the studies, the Bachelor will be able to:

- work in the fields of protection and valorization of the rural territory and of the management of protected areas;
- work in the field of the development of agricultural services devoted to environmental protection and land requalification;
- perform activities of environmental monitoring and analysis by means of up-to-date techniques for the detection, representation and analysis of territorial data;
- perform sector surveys for the assessment of the environmental impact of plans and works and for the evaluation of the resources of the rural territory according to the guidelines of the European Union;
- contribute to the planning and implementing of the urban and territorial plans and of the agro-territorial developmental programs foreseen by the current national and regional regulations. The Bachelor will also have gained awareness and independent judgement that will make possible to acquire the necessary information and evaluate its implications, in a production and market context, in order to implement interventions aimed at improving the quality and efficiency of the

agricultural activities and production, also under the points of view of environmental sustainability and eco-compatibility. The Bachelor will also be able to communicate effectively, orally and in writing, with people of equal or lesser skills, also by the use, within the specific disciplinary area, of a language other than his/her own, usually English among those spoken in the European Union. The Degree Course will provide, also by means of new communication and computer technologies, the basic cognitive tools required for the continuous updating of knowledge of the specific sector(s).

Professional profile and employment opportunities

The professional profile of the Bachelor in Agro-Technologies for the Environment and the Landscape merges knowledge of chemistry, biology and plant and animal physiology with that of agro-technology and agricultural economy and engineering, so characterizing a professional able to respond to the needs of Administrations and Public Bodies as well as to those of enterprises and professional services. The career opportunities of the Bachelor in Agro-Technologies for the Environment and the Landscape lie in the fields of protection and management of the rural territory resources, environment protection, analysis and monitoring of agro-environmental systems and processes. In particular, thanks to the acquired skills, the Bachelor will find career opportunities in:

- national and regional services for the protection and development of the environment and territory (Government technical services, national and regional environmental agencies, basin authorities, regional, provincial and municipal technical services and departments, reclamation and irrigation consortia, mountain communities, consortia of mountain catchment);
- professional offices, service companies and laboratories active in the environmental and territorial valorization and safeguard and in environmental monitoring and recovery;
- professional offices and companies operating in the management and disposal of waste, environmental remediation, construction and maintenance of green areas, soil protection works and interventions;
- freelance activities.

Notes

To obtain the degree, students are required to demonstrate an English language proficiency at level B1 within the Common European Framework of Reference for Languages (CEFR). This level can be assessed in the following ways:

- by submitting the language certificate achieved no more than three years prior to the submission, at level B1 or higher, recognised by the University (the list of recognised language certificates can be found at: <https://www.unimi.it/en/study/language-proficiency/placement-tests-entry-tests-and-english-courses>). The language certificate must be uploaded during the admission process;

- by taking the Placement Test, organised by SLAM exclusively during the first year, from October to December. Students who fail to reach level B1 or B2 will have to attend an English course organised by SLAM. The Placement Test is compulsory for all students who do not have a valid language certificate.

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- by taking the Placement Test, organised by SLAM exclusively during the first year, from October to December. Students who fail to reach level B1 will have to attend an English course organised by SLAM. The Placement Test is compulsory for all students who do not have a valid language certificate.

Students who do not take the Placement Test within the deadline and students who fail the SLAM end-of-course test within six attempts will have to obtain a language certificate within the year in which the language exam is scheduled.

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

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 30 different 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.

Study and internships abroad

The Course of study in Agrotechnologies for the Environment and the Territory gives many opportunities for stages abroad

mainly through the Erasmus+ programme. About 30 foreign Universities of the EU are involved in this students exchange. Globally every year about 5 students of this course of study make a stage in these universities. The areas of study which can be followed by the students abroad are almost all those included in this course of study. In general, students who make a stage abroad attend local courses or participate in research for the preparation of their thesis.

The examination scores and the related UFC obtained in the partner universities are almost entirely acknowledged by our university for the curriculum studies.

Other possibilities exist in terms of cultural exchange with non EU universities (in China, Japan, Latin America) not involved in the Erasmus programme.

How to participate in Erasmus mobility programs

How to participate in Erasmus+ mobility programmes

The students of the University of Milan can participate in mobility programmes, which last 3 to 12 months, through a public selection procedure.

Ad hoc commissions will evaluate:

- 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 generally begins around February each year with the publication of a call for applications specifying the destinations, with the respective programme duration, requirements and online application deadline.

Every year, before the deadline for the call, the University organizes informative meetings to illustrate opportunities and rules for participation to students.

Erasmus+ scholarship

The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which is 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.

Learn more at <https://www.unimi.it/en/international/study-abroad/studying-abroad-erasmus>.

For assistance, please contact:

International Mobility Office

Via Santa Sofia 9 (second floor)

Tel. 02 503 13501-12589-13495-13502

E-mail: mobility.out@unimi.it

Desk opening hours: Monday to Friday 9 am - 12 noon

1st COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Biology	12	BIO/05, BIO/03
English assessment B1 (3 ECTS)	3	ND
Essentials of economics	6	AGR/01
General and inorganic chemistry	6	CHIM/03
Mathematics	6	MAT/02
Organic chemistry	6	CHIM/06
Physics	6	FIS/07
Total compulsory credits		45
2nd COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Agroecology and cropping systems	8	AGR/02, AGR/03
Computer technology and statistics knowledge	6	NA
Farm structures and the environment	6	AGR/10
Fundamental of ecology and forestry	8	(4) AGR/05, (4) BIO/07
General agronomy	8	AGR/02
General and environmental microbiology	6	AGR/16
Livestock Farming System	6	AGR/18
Soil sciences and plant physiology	16	(4) AGR/14, (12) AGR/13
Stage	6	NA
Total compulsory credits		70

3rd COURSE YEAR (available as of academic year 2021/22) Core/compulsory courses/activities common

Learning activity	Ects	Sector
Agricultural mechanics and mechanization for the environment safeguard	6	AGR/09
Agri-environmental evaluation of cropping systems	6	AGR/02
Environmental analysis and monitoring	6	CHIM/06
Environmental economics and appraisal	8	AGR/01
Principles of hydraulics and hydrology	10	AGR/08
Principles of plant protection	8	(4) AGR/11, (4) AGR/12
	Total compulsory credits	44
Further elective courses		
End of course requirements		
Final exam	5	NA
	Total compulsory credits	5