UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2021/22
BACHELOR
Agricultural Sciences and Technologies (Classe L-25)
Enrolled from 2019/20 academic year

HEADING	
Degree classification - Denomination and code:	L-25 Agriculture and forestry industry
Degree title:	Dottore
Curricula currently available:	AGRICOLTURE / AGRI-LIVESTOCK
Length of course:	3 years
Total number of credits required to complete programme:	180
Years of course currently available:	1st , 2nd , 3rd
Access procedures:	Cap on student, student selection based on entrance test
Course code:	G28

PERSONS/ROLES

Head of Study Programme

Prof. Roberto Oberti

Tutors - Faculty

Tutor per i piani di studio:
lettera iniziale cognome studenti A-B: Prof.ssa Luisa Pellegrino
lettera iniziale cognome studenti C: Prof. Pietro Marino Gallina
lettera iniziale cognome studenti D-E-F: Prof.ssa Alessia Perego
lettera iniziale cognome studenti G-H-I-K-L: Prof.ssa Noemi Negrini
lettera iniziale cognome studenti M-N: Prof. Roberto Pretolani
lettera iniziale cognome studenti O-P: Prof. Aldo Calcante
lettera iniziale cognome studenti Q-R: Prof.ssa Arianna Facchi
lettera iniziale cognome studenti S-T: Prof. Roberto Pilu
lettera iniziale cognome studenti U-V-Z: Prof. Luca Rapetti

Degree Course website

https://scienzeagrarie.cdl.unimi.it/

Phone 0250316867 Email: didattica.disaa@unimi.it

via Celoria 2 - Milano Città Studi Phone 0250316511-0250316512 Lunedì, mercoledì e venerdì dalle 10.30 alle 12.30; martedì e giovedì dalle 14 alle 16. 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

CHARACTERISTICS OF DEGREE PROGRAMME

General and specific learning objectives

As foreseen by the class L-25 “Agricultural and Forest Sciences and Technologies”, the degree course aims at training bachelors with adequate basic skills in the main agrarian sectors, and able to use a scientific approach to solve practical problems. They will be able to perform technical, managerial and professional tasks in activities dealing with crop and livestock systems, and related technologies. They will be able to promptly fit into the work market, both in Europe and outside Europe, being able to use a foreign language, and being able to efficiently communicate and utilize information. The degree course is made of two curricula: a first “Agrarian”, more general, and a second one “Agro-Livestock”, more specific for animal husbandry.

Expected learning outcomes

Graduates in Agriculture Sciences and Technologies, having a knowledge of both basic and professionals (biology, chemistry, engineering, technic and economic) disciplines, will be able to professionally act on all agriculture sectors such as: technical and economic farm management; conservation, transformation and commercialization of plant and animal commodities; management of the rural territory and environment; adequately communicate and use information; autonomy in team working, with a rapid involvement in the operative work; efficiently use a European language, besides Italian. Graduate in Agriculture Sciences and Technologies will be ready to enroll in the master degrees of the Agrarian sector and will have the skills to face the future studies with a high level of autonomy.

Professional profile and employment opportunities

The learning structure of the degree, integrated with some choice courses, will give the graduate different possible professional profiles related to the following activities: management of agro-livestock farms; farm and territory agro-mechanization; management of water resources; design/planning of livestock buildings; economic and administrative farm management. Graduates in Agriculture Sciences and Technologies will be able to work in the following sectors: crop-livestock productions, extension service, public and private administration, research and teaching. Skills: technical and economic management of the crop-livestock resources; organization of the extension services; integrated rural development projects; monitoring and safeguard of the rural territory; choice and set up of technical production plants; machine, plant and structure check and safety; energy management in renewable energy systems; practices for environmental protection and sustainable agriculture; commercialization and marketing of agriculture commodities.

Notes

In order to obtain their degree, students must be proficient in English at a B1 level under the Common European Framework of Reference for Languages (CEFR). This proficiency level may be certified as follows:
- By a language certification, earned within three years prior to the date of submission, at a B1 level or higher. For the list of language certifications recognised by the University, please review: https://www.unimi.it/en/study/language-proficiency/placement-tests-entry-tests-and-english-courses. The certification must be uploaded during the enrolment procedure, or subsequently to the portal http://studente.unimi.it/uploadCertificazioniLingue;
- By a Placement Test, which is delivered by the University Language Centre (SLAM) during year I only, from October to December. Students who fail the test will be required to take a SLAM course.

The Placement Test is mandatory for all students who do not hold a valid certification.
Those who do not sit the Placement Test by December, or who fail to pass the end-of-course test within six attempts, must obtain an outside paid certification by graduation.

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 the 27 EU member countries and other Extra-EU 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 Agricultural Sciences and Technologies gives many opportunities for stages abroad mainly through the Erasmus+ programme. About 30 foreign Universities of the EU are involved in this students exchange. 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 learning agreement is outlined in collaboration with the person in charge for the Erasmus of the degree program, as regards both the choice of courses and the organization of the internship at the partner university. Students must obtain the formal approval of the examinations that they intend to carry out at the host university from professors who hold equivalent or similar teachings at the University of Milan before completing the learning agreement. As regards experimental activities abroad, which can constitute part or the entire program of the internship, a letter of agreement from a professor of the partner university is required, along with the formal approval on the objectives, on the program and on the term of the internship by a professor of the degree program, who will also act as supervisor. 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, 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 generally begins around February each year with the publication of a call for applications specifying the destinations, with the respective programme duration (from 2/3 to 12 months), 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
Contacts: InformaStudenti mobility.out@unimi.it
Student Desk booking through InformaStudenti

1st COURSE YEAR Core/compulsory courses/activities common to all curricula

Learning activity	Ects	Sector
Animal anatomy and genetics	8	AGR/17, VET/01
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	53	

2nd COURSE YEAR Core/compulsory courses/activities common to all curricula

Learning activity	Ects	Sector
Agricultural industries	6	AGR/15
Computer technology and statistics knowledge	6	NA
Farm structures	6	AGR/10
General Agronomy	8	AGR/02
Microbiology	6	AGR/16
Soil and plant science	12	AGR/13
Total compulsory credits	44	

3rd COURSE YEAR Core/compulsory courses/activities common to all curricula

Learning activity	Ects	Sector
Agricultural Economics	8	AGR/01
Total compulsory credits	8	

COURSE YEAR UNDEFINED Core/compulsory courses/activities common to all curricula

Learning activity	Ects	Sector
Other educational experiences	10	NA
Total compulsory credits	10	

Further elective courses common to all curricula

Alcoholic beverage technology	4	AGR/15
Beekeeping	4	AGR/11
Farming in the Alps	4	AGR/19
Floriculture and turfgrasses	6	AGR/04
History of Agriculture	4	AGR/02
Morphological evaluation and ethnology in animal production	4	AGR/17
Ornamental arboriculture and urban forestry	6	AGR/03
Postharvest physiology and quality of horticultural commodities	4	AGR/03
Survey, map drawing and materials for green areas	6	AGR/10
Technical upgrading of the rural system	4	AGR/02
Valorisation of the agricultural biomass and management of the environmental impact	6	AGR/13
Vegetables production	4	AGR/04
Viticulture	6	AGR/03

End of course requirements common to all curricula			
Final exam		5	NA
	Total compulsory credits	5	

ACTIVE CURRICULA LIST

AGRICOLTURE Course years currently available: 1°, 2°, 3°
AGRI-LIVESTOCK Course years currently available: 1°, 2°, 3°

CURRICULUM: [G28-A] AGRICOLTURE

2nd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features AGRICOLTURE			
Learning activity		**Ects**	**Sector**
Agricultural hydraulics		6	AGR/08
Animal husbandry		8	AGR/19, AGR/18
	Total compulsory credits	14	
3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features AGRICOLTURE			
Learning activity		**Ects**	**Sector**
Agricultural genetics and herbaceous crops		10	AGR/07, AGR/02
Agricultural machinery		6	AGR/09
Fruit tree production		6	AGR/03
Plant pathology		12	(6) AGR/11, (6) AGR/12
	Total compulsory credits	34	

CURRICULUM: [G28-B] AGRI-LIVESTOCK

2nd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features AGRI-LIVESTOCK			
Learning activity		**Ects**	**Sector**
Animal husbandry		7	AGR/19
Animal nutrition and feeding		8	AGR/18
	Total compulsory credits	15	
3rd COURSE YEAR Core/compulsory courses/activities Curriculum-specific features AGRI-LIVESTOCK			
Learning activity		**Ects**	**Sector**
Agricultural Machinery and livestock plants		9	AGR/09
Animal welfare and sustainable animal production		7	AGR/19
Basic crop protection		8	AGR/11, AGR/12
Forage and grain cropping systems		9	AGR/02
	Total compulsory credits	33	