



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2026/27**  
**BACHELOR**  
**ENVIRONMENTAL SCIENCE AND POLICY FOR SUSTAINABILITY**  
**(Classe L-32 R)**  
**Enrolled in a.y. 2026/2027**

### **HEADING**

<b>Degree classification - Denomination and code:</b>	L-32 R
<b>Degree title:</b>	Dottore
<b>Curricula currently available:</b>	ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY / ENVIRONMENTAL SCIENCES AND TECHNOLOGIES
<b>Length of course:</b>	3 years
<b>Total number of credits required to complete programme:</b>	180
<b>Years of course currently available:</b>	1st
<b>Access procedures:</b>	Open, subject to completion of self-assessment test prior to enrolment
<b>Course code:</b>	FAL

### **PERSONS/ROLES**

#### **Head of Study Programme**

prof. Marco Parolini

#### **Tutors - Faculty**

Tutor per l'orientamento in ingresso: Prof.ssa Michela Sugni

Tutor per l'orientamento in uscita: Prof. Mirko Magni

Tutor per piani di studio: Prof.ssa Stefanella Stranieri, Prof.ssa Alessia Cavaliere, Prof. Maurizio Maugeri, Prof. Roberto Ambrosini

Tutor per i trasferimenti: Prof. Danilo Bertoni, Prof.ssa Stefanella Stranieri, Prof.ssa Alessia Cavaliere, Prof. Maurizio Maugeri, Prof. Roberto Ambrosini

Tutor per stage e tirocini: Prof. Danilo Bertoni

Tutor per la mobilità internazionale e l'Erasmus: Prof.ssa Elisa De Marchi

Tutor per attività e sicurezza in laboratorio: Dott.ssa Stefania Marzorati

Tutor per attività e sicurezza sul campo: Prof. Roberto Ambrosini

#### **Degree Course website**

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

#### **Network of Representatives for University Gender Policies**

prof.ssa Francesca Caloni <https://www.unimi.it/it/ugov/person/francesca-caloni> Email: francesca.caloni@unimi.it

#### **Network of Representatives for University Gender Policies**

prof.ssa Paola Fossati <https://www.unimi.it/it/ugov/person/paola-fossati> Email: paola.fossati@unimi.it

#### **Registrar**

Via Celoria 18, Milano Phone 02 5032 5032 <https://www.unimi.it/it/studiare/servizi-gli-studenti/segreteria-informastudenti>

#### **Secretariat**

Via Celoria 2 - II piano, Milano Contattaci attraverso Informastudenti <https://www.unimi.it/it/node/359>

#### **Tutor for Disabled and SLD students**

prof. Giangiacomo Beretta <https://www.unimi.it/it/ugov/person/giangiacomo-beretta> Email: giangiacomo.beretta@unimi.it

### **CHARACTERISTICS OF DEGREE PROGRAMME**

#### **General and specific learning objectives**

In line with the qualifying educational objectives identified by the relevant academic discipline, the Bachelor's Degree in Environmental Sciences and Policies for Sustainability aims to provide a balanced synthesis of competencies across a broad range of disciplines focused on environmental issues. These disciplines collectively offer a comprehensive and structured

understanding of the main challenges related to environmental protection and management.

A distinctive feature of the program in Environmental Sciences and Policies for Sustainability lies in its uniquely integrated combination of disciplines over the three-year period. A strong presence of formal and quantitative disciplines is complemented not only by an in-depth exploration of the "hard sciences" and "life sciences" but also by a significant emphasis on economic, legal, and socio-political disciplines. Indeed, the Bachelor's Degree in Environmental Sciences and Policies for Sustainability prepares students interested in solving environmental problems by linking an understanding of natural sciences with socio-economic factors and public policies. The curriculum combines a quantitative understanding of environmental sciences, chemistry, and biology with law, policy, and economics to provide a solid foundation for careers in environmental policy, resource management, education, environmental law, design, conservation, and related fields.

Specifically, the program aims to achieve the following objectives:

- i) To provide students with a systemic understanding of the natural and human environment through an interdisciplinary scientific approach.
- ii) To enable the comprehension and interpretation of natural processes and environmental issues by developing methodological and applied knowledge in mathematics, computer science, chemistry, and physics.
- iii) To develop biological, ecological, and geological knowledge essential for understanding both natural and human-modified environments.
- iv) To equip students with skills for recognizing animal and plant species, fostering an understanding of systemic interactions in natural processes and living systems.
- v) To develop environmental management skills by deepening knowledge in legal, economic, and business disciplines related to environmental assessment, management, and sustainability.
- vi) To prepare graduates with competencies that allow them to enter the job market immediately or, if they wish, to continue their studies in specialized courses, first-level master's programs, or master's degree programs.

The educational path is structured into two clearly distinct phases. The first two years consist entirely of mandatory courses dedicated to developing the methodological and foundational knowledge of core and specialized disciplines. These include institutional courses in mathematical-statistical and computer sciences, the biological, chemical, physical, and geological foundations of environmental studies, as well as the most relevant economic and legal aspects of environmental issues. Additional courses focus on deepening the biological and geological aspects of environmental topics—particularly in botany, zoology, ecology, biochemistry, microbiology, and environmental geology—alongside an introduction to fundamental political-economic principles, with a special focus on microeconomics and environmental economics.

The third year, in contrast, offers students the opportunity to make choices that tailor their educational profile to their cultural aspirations and professional interests. Mandatory courses emphasize the environmental applications of economic and managerial disciplines, while students also select from two broad sets of elective courses, each defining a potential academic pathway: one focusing on deepening biological, physical, and chemical sciences, and the other on economic and legal disciplines related to the environment and associated policies. This structure enhances specialization in environmental studies while incorporating other formative activities that significantly contribute to the student's overall education and professional integration. In the third year, students typically take elective courses, which account for a substantial number of credits. Additionally, this year includes language proficiency requirements (English), participation in practical laboratory work organized by the program—including field activities—and engagement in internships, either within companies and public institutions or as internal research placements.

The degree program ensures that students engage in fieldwork, practical laboratories to develop specific technical skills, and interactive learning activities such as exercises, reading groups, and discussion groups, all structured in small groups.

The unique combination of disciplines and the distinctive structure of the educational path described above align fully with the cultural profile deliberately pursued by the degree program, as well as with the professional orientations and expected career opportunities for graduates. The professional figure that the program seeks to develop is that of a junior environmental manager, capable of combining a solid foundation in natural sciences with an in-depth understanding of the economic and legal issues involved in any management, planning, assessment, or regulatory intervention concerning the natural and human environment. This professional can take on technical roles in both the public and private sectors, contributing to the monitoring and analysis of natural and anthropized ecosystems, as well as the management of sustainability in economic activities. They may also work in monitoring natural systems with a focus on restoration and conservation. Furthermore, they can hold positions in public and private sectors, including environmental management, resource management, environmental law, environmental consulting, work with non-profit organizations and NGOs, and related fields.

### **Expected learning outcomes**

#### **Knowledge and Understanding**

Graduates in Environmental Sciences and Policies for Sustainability possess multidisciplinary knowledge that integrates various fields, including exact sciences, material sciences, and economic-legal-social sciences. Their understanding of the different natural and human components of the environment is combined with knowledge of administrative, regulatory, and economic issues related to this field. The integration of these diverse knowledge areas allows graduates to comprehend the

complex interrelations between environmental components?biotic and abiotic?biogeochemical cycles of chemical elements, and the flows of matter and energy, on one side, and the economy and society, on the other.

The acquisition of the core knowledge of the degree program is ensured through active student participation in lectures, laboratory activities, fieldwork, and theoretical-practical exercises. Engaging in these activities enables students to directly assess their level of understanding of the subjects studied. The systematic assessment of students' knowledge acquisition and comprehension of the topics outlined in the curriculum is ensured through periodic examinations and assessment tests distributed throughout the entire course of study.

#### Applying Knowledge and Understanding

The application of acquired skills will enable graduates to conduct chemical, physical, ecological, biological, and geological instrumental analyses, as well as to process and interpret environmental data to propose and adopt appropriate solutions to problems arising in different contexts. Graduates will also be able to apply their economic and legal competencies to analyze and address challenges related to the interaction between economic activities and environmental realities, proposing management solutions and production methods that safeguard natural environments in their complexity.

The ability to apply knowledge and skills will be fostered through students' active participation in laboratory activities, theoretical-practical exercises, fieldwork, internships, and other educational activities included in the curriculum. These activities will allow them to apply theoretical concepts acquired during lectures and independent study to real data and case studies.

#### Making Judgments

Upon completing their studies, graduates in Environmental Sciences and Policies for Sustainability will:

- ? Have acquired the ability to apply the scientific method to environmental problem-solving with operational autonomy.
- ? Have developed economic and legal competencies that enable them to make informed decisions on complex issues, framing environmental problems within the relevant production and regulatory context.
- ? Have cultivated sensitivity and analytical skills that allow them to position environmental issues within a broader socio-economic, cultural, and ethical framework.
- ? Have developed both the ability to work in teams and independently, as well as the capacity to tackle and solve complex problems autonomously and responsibly.

Students will develop independent judgment skills through participation in lectures that encourage critical discussion of topics, autonomous problem-solving exercises, and the writing of short essays on assigned topics. Additionally, engagement in seminars and laboratory activities led by professors, experts, or professionals will provide students with opportunities to address real or simulated case studies, individually or in groups, across various applied fields.

#### Communication Skills

Upon completing their studies, graduates in Environmental Sciences and Policies for Sustainability will:

- ? Be able to communicate effectively with experts from other sectors and with professionals in the production industry, thanks to their multidisciplinary training.
- ? Be capable of explaining environmental degradation issues, proposing ideas, and providing solutions?whether their own or developed by others?related to altered environmental conditions.
- ? Be able to convey scientific and technological information to both specialized audiences and general audiences, both in Italian and English, in written and oral forms.
- ? Be proficient in communication using traditional methods, as well as through digital tools and internet-based communication channels, demonstrating an appropriate use of technology.
- ? Be able to work in interdisciplinary teams to contribute to solving complex environmental challenges.

Communication skills will be encouraged and assessed through written reports and essays required in various courses, public presentations of these works to the entire class, written and oral examinations, active participation in seminars, laboratory activities, and external internships, as well as through the preparation of the final thesis.

#### Learning Skills

Graduates in Environmental Sciences and Policies for Sustainability will:

- ? Have developed a flexible mindset, allowing them to integrate smoothly into professional environments and adapt easily to new contexts and emerging environmental challenges.
- ? Be able to work effectively in interdisciplinary teams and engage in dialogue with experts in specific technical-scientific fields, contributing to the design and implementation of effective solutions to environmental problems.
- ? Be proficient in communicating, both in written and oral form, the results of analyses and experiments.
- ? Have cultivated a flexible approach, enabling them to enter the job market quickly and adapt to the dynamic and innovative challenges frequently encountered in the environmental sector.

The assessment of learning skills will take place through in-course tests, final examinations in the various subjects, and proficiency assessments related to other academic activities. Additionally, learning outcomes will be evaluated during the final thesis defense, where a faculty committee will assess the student's work based on their final dissertation, which is developed following an internal or external internship experience.

### **Professional profile and employment opportunities**

#### ENVIRONMENTAL EXPERT

##### Role in a Work Context

Graduates in Environmental Sciences and Policies for Sustainability take on organizational, managerial, administrative, commercial, and technical roles in production companies and service providers in the environmental sector. Their responsibilities require interaction with a variety of stakeholders and decision-makers, both within and outside the company, operating at different levels and in different areas. This interaction may involve administrators, finance managers,

production and logistics personnel, and marketing professionals, as well as public entities and local administrations responsible for regulatory and authorization procedures that influence business activities, operations, and processes. Additionally, environmental experts engage with stakeholders, suppliers, consumers, and clients.

Skills Associated with the Role.

The role of an environmental expert requires interdisciplinary competencies that integrate business, legal, and economic knowledge with a solid foundation in the scientific method. The expert must be able to analyze and understand key biological, chemical, physical, and geological aspects of environmental issues. They should be proficient in conducting cost-benefit analyses, carrying out environmental impact assessments, understanding environmental risks associated with business operations, and implementing appropriate mitigation strategies. Additionally, they should be able to prepare environmental budgets and effectively address corporate social responsibility issues.

Career Opportunities

Agricultural companies

Food industry businesses

Extractive industry companies

Energy sector enterprises

Green economy firms

Environmental consulting service providers

## EXPERT IN NATURAL RESOURCE ANALYSIS AND MONITORING

Role in a Work Context

This professional conducts research in natural, agricultural, and human-modified environments. Their responsibilities include surveying and monitoring biodiversity components (both animal and plant) and assessing interactions with socio-economic and productive systems. They participate in drafting management plans and projects for resource management in natural environments. Additionally, they contribute to the creation of educational materials such as guides, brochures, and other publications and engage in outreach activities at schools, protected areas, museums, and other institutions.

Skills Associated with the Role

The expert integrates knowledge of animals, plants, ecological processes, and production systems to collect, analyze, and synthesize environmental data. They contribute to activities aimed at conserving abiotic and biotic components in rural, natural, and semi-natural ecosystems, both aquatic and terrestrial. By leveraging their interdisciplinary training, they engage in public outreach regarding environmental issues, considering the complexity of interactions among stakeholders within a given territory.

Career Opportunities

Professional consultancy and self-employment in environmental planning, including botanical, zoological, and ecosystemic-territorial analysis

Employment in public administrations at various levels (Park Authorities, Regional and Provincial governments

Work in theme parks, scientific publishing, and public outreach

## EXPERT IN THE PROTECTION AND MANAGEMENT OF RURAL ENVIRONMENTS

Role in a Work Context

This professional is involved in planning and organizing activities related to land management and rehabilitation. They integrate knowledge of economic and productive systems with an understanding of ecosystem functions to identify management strategies that balance development with environmental sustainability.

Skills Associated with the Role

The training provided by the degree program allows graduates to integrate advanced knowledge of the physical and biological components of natural environments with expertise in environmental policies, regulations, and operational skills applicable to the productive sector. Graduates possess the necessary competencies for planning and implementing land rehabilitation projects, including the development of agricultural services.

Career Opportunities

Professional consultancy and self-employment in rural and natural environment management and restoration

National and regional services for environmental and rural development protection (National and Regional Environmental Agencies, Basin Authorities, Municipal Technical Services, Land Reclamation and Irrigation Consortia, Mountain Communities)

## EXPERT IN TERRITORIAL ANALYSIS AND ENVIRONMENTAL IMPACT STUDIES

Role in a Work Context

This professional conducts cost-benefit analyses, environmental impact assessments, and landscape studies. They collaborate with public territorial entities to ensure the correct application of environmental regulations. This role may require additional post-graduate training, which can be obtained through specialized programs offered by companies and institutions operating in the sector.

Skills Associated with the Role

The degree program's multidisciplinary training enables graduates to integrate in-depth knowledge of the physical and biological components of natural environments with expertise in environmental policies, regulations, and operational skills relevant to the productive sector. Additionally, graduates possess the technical expertise necessary to conduct sectoral investigations related to environmental impact assessments for projects and plans.

Career Opportunities

Professional consultancy firms and companies providing environmental advisory services  
Public territorial entities, central government agencies, and local, national, international, and supranational organizations focused on environmental policies and issues  
Research agencies, laboratories, and study centers

## ENVIRONMENTAL TECHNICIAN

### Role in a Work Context

This professional provides technical support to companies in environmental monitoring, waste collection and treatment, and environmental remediation. To attain higher levels of responsibility and enhance career prospects, additional training through specialized courses or first-level master's programs may be required.

### Skills Associated with the Role

Graduates integrate technical expertise in chemistry, physics, and biology?acquired during their studies?with specialized knowledge in legal and managerial fields. Their combination of technical and regulatory-managerial skills enables them to identify and implement optimal environmental strategies within the production sector.

### Career Opportunities

Technical roles in private enterprises in environmental services and monitoring

## Initial knowledge required

### Admission Requirements and Required Knowledge

A high school diploma or an equivalent foreign qualification, as recognized under Ministerial Decree 270 of October 22, 2004, is required for admission. Basic knowledge of mathematics, physics, chemistry, and science, as provided by secondary education, is expected. Admission to the Bachelor's Degree in Environmental Sciences and Policies for Sustainability is open. However, enrollment requires a mandatory, non-selective test, which must be completed before registration to assess students' initial preparation.

The non-selective admission test consists of the TOLC (Test On Line CISIA), which can be taken at the University of Milan or any other university affiliated with CISIA (Interuniversity Consortium for Integrated Access Systems). Registrations for the TOLC must be completed directly on the CISIA website ([www.cisiaonline.it](http://www.cisiaonline.it)). The valid TOLC tests for admission to the Bachelor's Degree in Environmental Sciences and Policies for Sustainability are TOLC-S and TOLC-E.

Further details on the structure and topics covered in the test can be found at:

<https://www.cisiaonline.it/tolc/tolc-s/struttura-della-prova-e-sillabo>

<https://www.cisiaonline.it/tolc/tolc-e/struttura-della-prova-e-sillabo>

The result of the English language section does not replace the English proficiency assessment required by the degree program for the acquisition of related credits; instead, it serves as a self-evaluation tool for students.

Students who take the mandatory but non-selective TOLC-S or TOLC-E test and intend to use it for admission to the Bachelor's Degree in Environmental Sciences and Policies for Sustainability at the University of Milan MUST complete their enrollment by following the procedures and deadlines outlined in the admission call. For detailed information on the admission call, deadlines, and registration procedures, please visit:

<https://www.unimi.it/it/node/84/>.

### Additional Useful Links for Enrollment

#### • General Enrollment Instructions:

<https://www.unimi.it/it/studiare/immatricolarsi-e-iscriversi>

#### • Step-by-Step Enrollment Guide:

<https://www.unimi.it/it/studiare/frequentare-un-corso-di-laurea/iscriversi/iscriversi-una-prima-laurea>

### Admission for Transfer Students or Graduates

Students already enrolled in a degree program at the University of Milan, at another university, or those who have already obtained a degree may be exempted from taking the admission test if they meet the requirements for direct admission to years beyond the first year. Specifically, they must have at least 30 ECTS credits recognized from first- and/or second-year courses, including at least 9 ECTS credits that can be validated for the Mathematics exam.

To request this exemption, students must submit a preliminary academic evaluation request through the online service indicated in the admission call. Applicants must declare all completed exams, specifying their subject areas, credits, and grades, and attach course syllabi. For further details on this procedure, refer to the admission call.

Students admitted to the first year must still take the mandatory but non-selective admission test and follow the enrollment procedures outlined in the admission call, available at:

<https://spa.cdl.unimi.it/it/iscriversi>.

Students meeting the above criteria will be admitted directly to later years of the Bachelor's Degree in Environmental Sciences and Policies.

### Additional Learning Requirements (OFA) and Remediation Procedures

First-year students who do not achieve a minimum score of 10 on the Mathematics section of the TOLC-S or the TOLC-E (both mandatory but non-selective admission tests) will be assigned

### Additional Learning Requirements (OFA).

For students with OFA, support activities will be organized between October and December, followed by a test, where students must demonstrate improved preparation. Students who do not fulfill this requirement will not be allowed to take any second-year exams until they have passed the Mathematics exam.

## Compulsory attendance

Attendance is not compulsory, however attendance at didactic activities with laboratories, field activities, internships, etc. is strongly recommended

### **Degree programme final exams**

To be eligible for the final examination, students must have obtained 174 ECTS credits, including those required for foreign language proficiency.

The final examination consists of the presentation of a written dissertation of a theoretical, empirical, or experimental nature, or the submission of a report related to an internship. This dissertation or report serves an educational purpose, completing the student's three-year academic journey. The dissertation or report does not need to meet specific originality requirements. The time required for its preparation and writing should be proportional to the number of credits (6 ECTS) assigned to the final examination. The dissertation may also be written in English.

### **Campus**

The classrooms are located in Milan, Città Studi, mainly in via Celoria 20

### **Notes**

In order to obtain their degree, students are required to have a B1 level of proficiency according to the Common European Framework of Reference for Languages (CEFR). This level of proficiency can be certified as follows:

? by submitting an official language certificate at B1 level or higher, issued no more than three years before the submission date. The list of language certificates recognized by the University is available at <https://www.unimi.it/en/node/39322>.

The certificate must be uploaded during enrolment or later through the portal <http://studente.unimi.it/uploadCertificazioniLingue>.

? by taking a placement test administered by the University Language Centre (SLAM) between October and December (January for Master's degree courses) of the first year. Students who do not pass the test will be required to attend a language course offered by SLAM.

The placement test is compulsory for all students who do not already hold a valid certificate.

Students who do not take the placement test by the end of December (by the end of January for Master's degree courses), or who fail the end-of-course test after six attempts, must obtain a language certificate privately before graduating.

## **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 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 organisations.

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

The University of Milan is a member of the 4EU+ European University Alliance that brings together eight public multidisciplinary universities: University of Milan, Charles University of Prague, Heidelberg University, Paris-Panthéon-Assas University, Sorbonne University of Paris, University of Copenhagen, University of Geneva, and University of Warsaw. The 4EU+ Alliance offers integrated educational pathways and programmes to promote the international mobility of students (physical, blended and virtual).

### **Study and internships abroad**

Within ERASMUS+ program many agreements with international universities specializing in teaching and research on environmental issues. have been build up.

Among these, some examples of agreements include the Universities of Genève (CH), Justus-Liebig-Universität Giessen (DE), the Agricultural University of Athens (GR), the Josip Juraj Strossmayer University of Osijek (HR), the Wageningen University (NE), the University of Helsinki (FI) and the University of Agder (NO).

During the study period Erasmus students will attend both classes and exams, and they can also conduct research for their dissertation. The student admitted to the mobility program must submit a proposed study plan that includes the educational activities he or she plans to carry out abroad. The number of CFUs in the proposed plan should, as far as possible, correspond to those the student would acquire in an equivalent period at his or her own university. The proposed activities, chosen within the framework of the educational activities of the host university, should be consistent with the educational project of the degree program. The proposed plan must be submitted to the Graduate Course Erasmus Committee for approval. Where deficiencies are found in the core courses, the Commission may ask the student to supplement the syllabus of one or more courses taken at the host University with an exam to be conducted at his or her own University on an agreed supplementary syllabus. At the end of the mobility program, in compliance with the University guidelines, the passed exams present in the approved study plan will be recorded in the student's career under the original name of the course in the host foreign university. The relevant ECTS credits will be converted into CFUs; the grade reported will be expressed in thirtieths.

### **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 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 organises 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;

Student Desk booking through InformaStudenti

<b>1st COURSE YEAR Core/compulsory courses/activities common to all curricula</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Administrative and Environmental Law	6	GIUR-06/A
Botany	9	(8) BIOS-01/B, (1) BIOS-01/A
English assessment B1 (3 ECTS)	3	NN
Foundations of Biology	9	BIOS-04/A
Foundations of Inorganic and Organic Chemistry	9	(4) CHEM-05/A, (5) CHEM-03/A
Fundamentals of Earth Sciences	9	GEOS-02/B
Mathematics	9	(3) MATH-05/A, (6) MATH-03/B
Probability, Statistics and Computer Science	9	(5) MATH-03/B, (4) INFO-01/A
Total compulsory credits		63
<b>2nd COURSE YEAR (available as of academic year 2027/28) Core/compulsory courses/activities common to all curricula</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
Climate Change Economics and Policy	9	ECON-01/A
Ecology	9	BIOS-05/A
Environmental and Landscape Geology	9	GEOS-03/B
Environmental Biochemistry and Microbiology	6	(3) BIOS-07/A, (3) BIOS-15/A
Microeconomics	6	ECON-01/A
Physics	6	(3) PHYS-05/B, (3) PHYS-06/A
Zoology	9	BIOS-03/A
Total compulsory credits		54
<b>Elective courses common to all curricula</b>		
<b>The student must also acquire 3 credits by choosing one of the laboratories or field activities offered by the degree course.</b>		

Alternatively, students can choose a training activity in soft skills. For more details, see the following web page:  
<https://www.unimi.it/en/study/bachelor-and-master-study/following-your-programme-study/soft-skills>.

The degree course offers the following laboratories or field activities:

Eco-Science in Practice: the Political-Economic and Technological Challenges in the Sustainability	3	NN
Excel Laboratory	3	NN
Field Activities	3	NN
Lca - Life Cycle Assessment Laboratory	3	AGRI-04/B

### 3rd COURSE YEAR (available as of academic year 2028/29) Core/compulsory courses/activities common to all curricula

Learning activity	Ects	Sector
Environmental Management	6	ECON-07/A
Natural Resources and Public Goods Economics and Policy	6	AGRI-01/A
Total compulsory credits		12

### Elective courses common to all curricula

Field activities activated for a.y. 25/26 will be available on web site <https://spa.cdl.unimi.it/it/insegnamenti>.

The student will have to acquire 18 credits among all the offered training activities and all the courses activated by the University, after evaluation by the tutor. The courses not already chosen among the curricula can be selected:

### End of course requirements common to all curricula

Final Exam	6	NN
Internship	6	NN
Total compulsory credits		12

## ACTIVE CURRICULA LIST

ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY Course years currently available: 1°  
 ENVIRONMENTAL SCIENCES AND TECHNOLOGIES Course years currently available: 1°

### Procedure for choosing a curriculum

In the second year, students must choose one of the two available curricula:

Curriculum A – Environmental Management and Sustainability Policies;

Curriculum B – Environmental Science and Technology for Protection

## CURRICULUM: [FAL-A] ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY

### Qualifying Training Objectives

The 'Environmental Management and Sustainability Policies' curriculum aims to deepen knowledge in economic, legal, and social sciences with specific reference to environmental issues.

### Skills acquired

Students will develop a thorough understanding of environmental issues and their management at both business and policy levels.

### Professional profile and employment possibilities

Professional Profiles:

- Environmental expert in companies operating in the agri-food sector, energy sector, and green economy;
- Specialist in natural resource analysis and monitoring;
- Expert in the protection and management of rural environmental resources;
- Specialist in territorial analysis and environmental impact studies;
- Environmental technician

Career Opportunities:

Consulting firms, companies, public and private institutions

## 3rd COURSE YEAR (available as of academic year 2028/29) Elective courses Curriculum-specific elective courses for ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY

Choose 3 of the following courses:

Administrative Law of Sustainable Development	6	GIUR-06/A
Agri-Food Policy and Environmental Sustainability	6	AGRI-01/A
Development economics and the environment	6	ECON-01/A
Environmental Sustainability of Intensive Breeding	6	AGRI-04/C
Globalization and Environmental Policy	6	AGRI-01/A
Marketing and Sustainability	6	(5) ECON-07/A, (1) ECON-06/A
Renewable energy	6	AGRI-04/C
Sustainability of Food Production	6	AGRI-07/A
Sustainable Innovation of Animal Nutrition	6	AGRI-09/B

**Qualifying Training Objectives**

The 'Environmental Science and Technology for Protection' curriculum aims to deepen knowledge in natural and biological sciences with specific reference to environmental issues

**Skills acquired**

Students will develop a thorough understanding of the environment and nature through a scientific approach

**Professional profile and employment possibilities**

Professional Profiles:

- Environmental expert in companies operating in the agri-food sector, energy sector, and green economy;
- Specialist in natural resource analysis and monitoring;
- Expert in the protection and management of rural environmental resources;
- Specialist in territorial analysis and environmental impact assessments;
- Environmental technician

Career Opportunities:

Public institutions, parks, research centers

<b>3rd COURSE YEAR (available as of academic year 2028/29) Elective courses Curriculum-specific elective courses for ENVIRONMENTAL SCIENCES AND TECHNOLOGIES</b>		
<b>Choose 3 of the following courses:</b>		
Analysis of biological and environmental data	6	BIOS-03/A
Applied Ecology	6	BIOS-05/A
Biodiversity Management and Conservation	6	BIOS-03/A
Climatology	6	GEOS-03/A
Environmental Chemistry	6	CHEM-01/B
Environmental Genetics	6	BIOS-14/A
Environmental Toxicology	6	MVET-04/A
Foundations of Ecotoxicology	6	BIOS-05/A
Foundations of Physics for Environmental Sciences	6	(2) PHYS-05/B, (4) PHYS-06/A
Human Health and Environmental Risk	6	MEDS-02/A