University of Milano–Bicocca

Department of Earth and Environmental Sciences
DISAT

Master's Degree Program
in
Economics and Technologies for Sustainability

Academic Year 2026-2027

- **First year** (Course Regulations for the academic year 2026–2027);
- **Second year** (Course Regulations for the academic year 2025–2026).

1. Teaching plan

FIRST YEAR
(for students matriculated in the A.Y. 2026-2027)

Mandatory courses

Code	Course	ECTS	ACADEMIC DISCIPLINE	Module	ECTS	Semester
F7603Q032	ADVANCED DATA ANALYSIS AND STATISTICS	6	STAT-01/A	STATISTICS FOR SUSTAINABILITY	3	1
			STAT-04/A	MATHEMATICS FOR DATA ANALYSIS	3	
F7603Q001	ENVIRONMENTAL ECONOMICS AND REGULATION	12	ECON-01/A	ENVIRONMENTAL ECONOMICS	6	1
			GIUR-09/A	ENVIRONMENTAL REGULATION	6	
F7603Q002	BUSINESS STRATEGY AND ADVANCED CORPORATE FINANCE FOR SUSTAINABILITY	12	ECON-07/A	BUSINESS STRATEGY FOR SUSTAINABILITY	6	2
			ECON-09/A	CORPORATE FINANCE FOR SUSTAINABILITY	6	
F7603Q005	PLANETARY BOUNDARIES AS BASIS FOR SUSTAINABILITY CONCEPTS	12	CHEM-01/B	NON-RENEWABLE RESOURCES – GLOBAL ABUNDANCES, INCIDENCES, AND ACCESSIBILITY	4	1
			BIOS-05/A	MANAGING IMPACT OF PRODUCTION ON THE ENVIRONMENT	4	
			BIOS-01/C	BIOMASS AS RENEWABLE RESOURCE	4	
F7603Q003	SCIENCE AND ECONOMICS OF RENEWABLE AND NON-RENEWABLE RESOURCES	12	GEOS-01/D	GEOLOGICAL RESOURCES	6	2
			ECON-04/A	RESOURCES ECONOMICS AND MANAGEMENT	6	

Mandatory elective courses

Students must choose at least 1 course (6 ECTS) from the following:

Code	Course	ECTS	ACADEMIC DISCIPLINE	Module	ECTS	Semester
F7603Q020	**LABORATORY OF ENTREPRENEURSHIP AND BUSINESS PLANNING**	**6**	ECON-07/A	ENTREPRENEURSHIP LAB	3	2
			ECON-06/A	BUSINESS PLANNING	3	
F7603Q021	**LABORATORY OF RENEWABLE ENERGY TECHNOLOGIES**	**6**	PHYS-03/A	PHYSICAL BASES FOR MODERN ENERGIES	3	2
			ECON-03/A	IMPLEMENTING AN ECONOMICALLY SUSTAINABLE RENEWABLE ENERGY PROJECT	3	
F7603Q022	**LABORATORY OF UNDERSTANDING SUSTAINABLE MANAGEMENT OF INDUSTRIAL WATER**	**6**	GEOS-03/B	URBAN WATER CYCLE	3	2
			ECON-07/A	SERVICE MANAGEMENT	3	
F7603Q023	**LABORATORY OF URBAN MINING – OPPORTUNITIES AND LIMITS**	**6**	GEOS-01/B	RAW MATERIALS AND SUSTAINABLE INDUSTRY	2	2
			GEOS-01/D	SUSTAINABLE MANAGEMENT OF RAW MATERIALS	2	
			ECON-04/A	FROM WASTE TO WEALTH	2	
F7603Q024	**LABORATORY OF SUSTAINABILITY AND BIODIVERSITY**	**6**	BIOS-01/C	PLANTS AND GLOBAL CHANGE	2	2
			BIOS-03/A	ANIMALS AND GLOBAL CHANGE	2	
			GIUR-09/A	REGULATIONS FOR FOSTERING BIODIVERSITY	2	
F7603Q025	**LABORATORY OF SUSTAINABILITY AND ONE HEALTH**	**6**	AGRI-08/A	FOOD, MICROBES AND HUMAN HEALTH	4	2
			GSPS-08/B	URBAN PLANNING I	2	
F7603Q026	**LABORATORY OF PAST, PRESENT AND FUTURE OF CERTIFYING SUSTAINABILITY**	**6**	STEC-01/B	FOOD PRODUCTION AS EXAMPLE FOR SUSTAINABILITY THROUGHOUT THE CENTURIES	3	2
			CHEM-01/B	CURRENT CERTIFICATION MECHANISMS AND GUIDELINES	3	

SECOND YEAR

(for students matriculated in the A.Y. 2025-2026)

Mandatory elective courses

Students must choose at least 3 courses (24 ECTS) from the following:

Code	Course	ECTS	ACADEMIC DISCIPLINE	Module	ECTS	Semester
F7603Q033	**SUSTAINABILITY SCENARIOS & MODELLING**	**8**	SECS-P/05	SUSTAINABILITY SCENARIOS	4	1
			SECS-S/06	MATHEMATICS FOR SUSTAINABLE SCENARIOS	4	1
F7603Q004	**INNOVATION AND TECHNOLOGY MANAGEMENT**	**8**	SECS-P/08	INNOVATION MANAGEMENT	4	1
			CHIM/06	CONVERTING CHEMICAL INNOVATION TO SUSTAINABLE PRODUCTS AND PROCESSES	4	1
F7603Q006	**SOCIO-ECONOMIC VS. SCIENTIFIC ASPECTS OF LOCAL SUSTAINABILITY MEASURES AND INDUSTRIAL PLANTS**	**8**	CHIM/04	PLANTS AND PROCESSES FOR SUSTAINABLE CHEMICAL PROCESSING	4	1
			SPS/10	SOCIO-POLITICAL ASPECTS OF SUSTAINABLE INDUSTRIAL PROCESSING	4	1

F7603Q007	**TECHNOLOGIES FOR SUSTAINABLE PRODUCTION**	**8**	CHIM/03	VALORISATION STRATEGIES FOR SUSTAINABLE RESOURCES	3	1
			SECS-P/08	OPERATIONS MANAGEMENT	2	1
			BIO/19	MICROBIAL ASPECTS OF SUSTAINABLE PRODUCTION	3	1
F7603Q008	**TECHNOLOGIES FOR CIRCULAR ECONOMY**	**8**	CHIM/11	BIO-BASED PROCESSES	4	1
			BIO/15	BIOPROSPECTING	4	1
F7603Q009	**SAFE AND SUSTAINABLE BY DESIGN**	**8**	BIO/06	SUSTAINABILITY AND SAFETY OF PROCESS AND PRODUCTS IN DIFFERENT FRAMEWORKS	4	1
			CHIM/06	LOW ENVIRONMENTAL IMPACT PROCESSING	4	1
F7603Q010	**ENERGY STORAGE AND CONVERSION: FROM TECHNOLOGIES TO APPLICATIONS**	**8**	ING-IND/24	APPLIED TECHNOLOGIES IN ENERGY STORAGE AND ENERGY GENERATION	6	1
			SECS-P/01	APPLIED ECONOMICS IN ENERGY STORAGE AND ENERGY GENERATION	2	1
F7603Q011	**RENEWABLE ENERGY SOURCES: FROM TECHNOLOGIES TO APPLICATIONS**	**8**	CHIM/02	MODERN ENERGY SOURCES	6	1
			IUS/13	REGULATORY ASPECTS OF MODERN ENERGY	2	1
F7603Q012	**PHYSICS FOR SUSTAINABLE ENERGY**	**8**	FIS/01	ADVANCED TECHNOLOGIES FOR RENEWABLE ENERGY CONCEPTS	6	1
			SPS/10	SOCIO-POLITICAL ASPECTS OF MODERN ENERGY PLANTS	2	1

Students must choose at least 1 course (6 ECTS) from the following:

Code	Course	ECTS	ACADEMIC DISCIPLINE	Module	ECTS	Semester
F7603Q027	**LABORATORY OF TOWARDS CARBON NEGATIVITY**	**6**	**CHIM/12**	**TECHNOLOGIES FOR CARBON CAPTURING**	**3**	1
			SECS-P/03	**ECONOMICS OF CARBON SEQUESTERING**	**3**	1
F7603Q028	**LABORATORY OF DATA MANAGEMENT AND SYNTHETIC INDICATORS FOR SUSTAINABILITY**	**6**	**SECS-S/05**	**SYNTHETIC INDICATOS FOR SUSTAINABILITY**	**3**	1
			CHIM/01	**MACHINE LEARNING AND AI-APPLICATIONS FOR DATA MANAGEMENT**	**3**	1
F7603Q029	**LABORATORY OF URBAN PLANNING AND POLICIES**	**6**	**SPS/10**	**URBAN POLICIES**	**4**	1
			ICAR/07	**URBAN PLANNING II**	**2**	1
F7603Q030	**LABORATORY OF HUMAN ECOLOGY**	**6**	**BIO/07**	**GLOBAL ENVIRONMENTAL HISTORY**	**3**	1
			SPS/10	**POLITICAL ECOLOGY**	**3**	1
F7603Q031	**LABORATORY OF COMMUNICATING SUSTAINABILITY**	**6**	**SECS-P/08**	**CORPORATE COMMUNICATION FOR SUSTAINABILITY**	**2**	1
			GEO/12	**COMMUNICATING SUSTAINABILITY IMPACT – EXAMPLE CLIMATE CHANGE**	**2**	1
			SPS/10	**DIVULGING SUSTAINABILITY**	**2**	1

Students must choose 1 language from the following:

ITALIAN STUDENTS

Code	Course	ECTS
F7603Q016	ENGLISH - C1 LEVEL (OR HIGHER)	3
F7603Q017	FRENCH - B2 LEVEL (OR HIGHER)	3
F7603Q018	GERMAN - B2 LEVEL (OR HIGHER)	3
F7603Q019	SPANISH - B2 LEVEL (OR HIGHER)	3

FOREIGN STUDENTS

Code	Course	ECTS
F7603Q015	ITALIAN - A2 LEVEL (OR HIGHER)	3

The following mandatory activities complete the program:

Code	Course	ECTS
F7603Q013	TRAINEESHIP (F7603Q013)	6
F7603Q014	FINAL EXAMINATION	13

1. Admission to the Master's degree program

Entry Requirements

CANDIDATES WITH AN ITALIAN DEGREE

Admission to the Master's Degree Programme in Economics and Technologies for Sustainability requires a bachelor's degree in one of the following classes (DM 270/04 or DM 509/99):

- Economics and Business Management (Class L-18 or Class 17);
- Environmental and Nature Sciences and Technologies (Class L-32 or Class 27);
- Economics (Class L-33 or Class 28).

Applicants who have obtained a degree in a different class are required to have at least 36 CFUs in the following academic disciplines (i.e. SSD or settori scientifico-disciplinari):
SECS-P/01 (ECON-01/A), SECS-P/06 (ECON-04/A), SECS-P/08 (ECON-07/A); SECS-S/01 (STAT-01/A); GEO/04 (GEOS-03/A), GEO/05 (GEOS-03/B), GEO/09 (GEOS-01/D); BIO/01 (BIOS-01/A), BIO/05 (BIOS-03/A), BIO/07 (BIOS-05/A); CHIM/03 (CHEM03/A), CHIM/06 (CHEM-05/A).

At least 18 CFUs in SECS-P/01 (ECON-01/A), SECS-P/06 (ECON-04/A), SECS-P/08 (ECON-07/A); SECS-S/01 (STAT-01/A) must be achieved.

CANDIDATES WITH A FOREIGN DEGREE

For candidates who have completed their education outside Italy, applications for the Master's Degree Program in Economics and Technologies for Sustainability for the A.Y. 2026-2027 will be managed through the DreamApply portal.

Admission to the Master's Degree Program in Economics and Technologies for Sustainability requires a **bachelor's degree** (minimum 3 years) from an accredited college or university.

The **application is evaluated** by the Admissions Committee on a case-by-case basis, considering the candidate's academic record (transcript of records), that should contain at least **36 ECTS** in **one or more of the following relevant academic disciplines**, **necessarily including 18 ECTS from courses covering economics and/or mathematical-statistical sciences**:

- ECONOMICS
- BUSINESS
- MATHEMATICAL-STATISTICAL SCIENCES
- SCIENTIFIC DISCIPLINES
- LEGAL DISCIPLINES
- ENVIRONMENTAL-CULTURAL DISCIPLINES.

Additionally, **proficiency in English at a level equivalent to or higher than B2** of the Common European Framework of Reference for Languages (CEFR) is required for admission to the Master's degree program.
The English language proficiency requirement is considered fulfilled if the candidate:
- holds a certification issued by an accredited institution and recognized by the University corresponding to B2 level or higher;
- has obtained a degree entirely or predominantly taught in English;
- holds a passport from one of the following countries: Antigua and Barbuda, Australia, Bahamas, Barbados, Belize, Canada, Dominica, Grenada, Guyana, Ireland, Jamaica, Malta, New Zealand, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, United Kingdom, United States of America.

As an alternative to the options described above, **candidates may request to take the English test offered by our University** by completing and uploading the request form available at https://www.unimib.it/node/35250. The test will be held in person; candidates will receive instructions on how to participate via email.

Admission Interview

Once the curricular requirements have been verified, admission to the Master's Degree Program is conditional on the **assessment of the adequacy of the candidate's personal preparation**. Personal preparation will be evaluated through an individual interview conducted by the Admission Committee.

Candidates must register and apply for admission on the DreamApply portal. Eligible candidates will receive interview details via a notification on DreamApply.

The assessment interview will cover the following topics:

- basic theories and concepts of microeconomics, macroeconomics, and business accounting;
- basic theories and concepts of ecology, including ecosystems, the biogeochemical cycle, population dynamics, r and k strategies, autoecology, and synecology;
- basic theories and concepts of biology, including biological resources, biodiversity, the concept of species, and elements of the history of life on earth;
- basic theories and concepts of chemistry, including material classification, the periodic table and periodicity of element properties, chemical bonds, chemical equilibrium, acids and bases, carbon reactivity;
- basic theories and concepts of geology, related to climate phenomena and georesources.

To prepare for the interview, candidates should review their educational background. If necessary, they may address any knowledge gaps by consulting the recommended readings available here:
https://elearning.unimib.it/pluginfile.php/1851035/course/section/306341/Syllabus%20-%20preparation%20interview%20ETS.pdf.

Since the Master's Degree Program in Economics and Technologies for Sustainability is highly interdisciplinary, the interview questions are designed not only to assess candidates' preparation in their specific field of study at the bachelor's level, but also to evaluate their flexibility and ability to approach topics beyond the scope of their undergraduate education using general knowledge.

2. Part-Time Enrollment

The course offers part-time enrollment according to the procedures defined in Article 12 of the Student Regulations of the University of Milano-Bicocca.

This is intended to ensure that students who cannot attend regularly have the opportunity to extend their study program for a number of years equal to twice the normal duration of the course. According to the aforementioned regulations, the number of credits that can be earned may not exceed the amount specified for each individual year, even in the case of exemptions, recognitions, or exams not taken in previous years.

For further details, please refer to the Course Regulations for the academic year 2026–2027.

3. Recognition of Prior and Experiential Learning

Credit Transfer

Students who:
- have transferred from other Master's Degree Programs
- have taken a leave of absence
- have previously withdrawn from the University
- already hold a Master's Degree

must request an evaluation of their academic record.
The Teaching Coordination Council of the Program will decide on the full or partial recognition of the courses already completed.

In the case of a transfer from another Master's degree program belonging to the LM-76 class, the portion of credits related to the same scientific-disciplinary sector directly recognized to the student cannot be less than 50% of the credits already earned (Ministerial Decree of March 16, 2007).

Information on transfer application procedures is published on the following web page: https://www.unimib.it/servizi/studenti-e-laureati/segreterie/passaggi-trasferimenti-e-rinunce.

Please note: Recognition of prior learning does not exempt students from taking the admission interview.

Recognition of ECTS Credits from Professional Activities

Universities can recognize as university credits the professional knowledge and skills individually certified according to the applicable regulations, as well as other knowledge and skills acquired through post-secondary level training activities in which the university has participated in the design and implementation, up to a maximum of 24 ECTS credits in total between Bachelor's and Master's degree programs. This recognition is subject to approval by the Teaching Coordination Council.

4. Concurrent enrollment

According to current legislation, students are allowed to enroll simultaneously in two higher education courses in order to obtain two different degrees (Art. 20 of the University's Didactic Regulations). Information on how to apply and fees can be found on the University's webpage: https://www.unimib.it/servizi/studenti-e-laureati/segreterie/contemporanea-iscrizione-due-corsi-studio.

5. Registration for Years Subsequent to the First

For enrollments in years subsequent to the first, please refer to the webpage: https://www.unimib.it/servizi/segreterie-studenti/rinnova-liscrizione.

6. Class Schedule and Office Hours

First semester: October 1, 2026 - January 22, 2027
Teaching break: November 16, 2026 - November 20, 2026 (only for second-year students)

Second semester: March 1, 2027 - June 19, 2027
Teaching break: March 31, 2027 - April 7, 2027

Class schedules will be published in the students' Web Agenda: http://gestioneorari.didattica.unimib.it/PortaleStudentiUnimib/.
Faculty office hours and meeting arrangements will be published on the e-Learning platform, within each course syllabus: https://elearning.unimib.it/course/index.php?categoryid=11584.

7. Course Syllabi

The course syllabi are available on the e-learning page of the degree program at the following link:
https://elearning.unimib.it/course/index.php?categoryid=11584.

8. Study Plan

Upon enrollment, each student is automatically assigned a default study plan ('statutory plan'), which includes all mandatory educational activities. Subsequently, the student is required to submit a personalized study plan, specifying their selected optional and elective courses.

The timeframes for submitting study plans are published at the following webpage:
https://www.unimib.it/servizi/studenti-e-laureati/segreterie/piani-degli-studi/area-scienze.
A detailed guide for completing the study plan is available on the e-learning page of the degree program: https://elearning.unimib.it/F7603Q.

The study plan is subject to approval by the Teaching Coordination Committee of the program. Students are permitted to take examinations only for courses that are included in their approved study plan. The study plan must comply with the required number of credits, prerequisites, and any other conditions set out in the Course Regulations.

For any matters not expressly covered, reference should be made to the Student Regulations of the University of Milano-Bicocca.

9. Elective Courses

Students are required to obtain 8 ECTS from elective courses. These courses may be chosen from those offered within the Master's Degree Program in Economics and Technologies for Sustainability, or from other Master's Degree Programs at the University, subject to study plan approval to ensure consistency with the student's overall educational goals.

In accordance with current regulations, elective activities are counted as a single exam for the purposes of calculating the total number of examinations, regardless of how many individual exams are taken to earn the required 8 ECTS.

10. Exams

Credits corresponding to mandatory, mandatory elective, or elective learning activities are earned by students upon passing an examination or other form of assessment, in accordance with the University's Academic Regulations.
Grades are awarded on a scale of thirty. Exams may be oral or written and oral, as specified by the University's Academic Regulations and the Student Regulations of the University of Milano-Bicocca.

Details on the assessment methods and evaluation criteria for each course can be found in the respective syllabus.
Syllabi are available on the course website: https://www.unimib.it/magistrale/economics-technologies-sustainability.

The minimum number of exam sessions is defined by the University's Academic Regulations.

Exam registration must be completed through the Online Student Registry (Segreterie Online). The exam schedule is available in the Exams Sessions Board of the Online Student Registry, as well as in the Web Agenda (Exam calendar).

11. Contacts

Course Location
Department of Earth and Environmental Sciences
Building ATLAS (U1) - Piazza della Scienza, 1 - Milan

Teaching Office
Building ATLAS (U1), first floor, room 1018
mail: didattica.ETS@unimib.it
tel.: 0039 02 6448 2706

Course webpage
https://elearning.unimib.it/course/index.php?categoryid=11558

Any information not contained in this document can be found in the Course Regulations, available at the following webpage:
https://elearning.unimib.it/mod/folder/view.php?id=1371967