



UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2025/26
MASTER DEGREE
DATA SCIENCE FOR ECONOMICS AND HEALTH (Classe LM-data)
Enrolled in 2025/26

HEADING

Degree classification - Denomination and code:	LM Data
Degree title:	Dottore Magistrale
Length of course:	2 years
Credits required for admission:	180
Total number of credits required to complete programme:	120
Years of course currently available:	1st
Access procedures:	Open, subject to entry requirements
Course code:	BBL

PERSONS/ROLES

Head of Interdepartmental Study Programme

Prof. Stefano Montanelli (Vice-Head of Interdepartmental Study Programme: Prof. Silvia Salini)

Tutors - Faculty

Prof. Alfio Ferrara (Academic guidance tutor) Prof. Luca Rossini (Academic guidance tutor)

Prof. Dario Malchiodi (Erasmus and international mobility tutor)

Prof. Domenico Massaro (Erasmus and international mobility tutor)

Prof. Matteo Zignani (Internship tutor)

Prof.ssa Silvia Salini (Laboratory tutor)

Degree Course website

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

Didactic Secretariat

Via Celoria, 18 – 20133 Milan <https://informastudenti.unimi.it/saw/ess?AUTH=SAML>

Disability Referee: Prof.ssa Silvia Salini

Student Registrar

Via Santa Sofia 9 Phone +39 02 5032 5032 <https://www.unimi.it/en/study/student-services/welcome-desk-informastudenti>

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

The education program can be enriched by educational activities abroad both to deepen some topics and as socialization experience in international environments. Within the Erasmus+ program study periods can be taken in over 50 universities in Belgium, Czech Republic, Finland, France, Germany, Greece, Hungary, Lithuania, Norway, Netherlands, Poland, Portugal, Romania, Slovenia, Spain, Switzerland, Turkey. Courses will be recognized in the personalized study plan. These periods abroad are typically 5-month long and include courses for about 30 CFU, in the area of information and communication technology and related applications. Recognition of these educational activities will be based on the Learning Agreement, to be defined in advance by the student and the Erasmus coordinator at the Computer Science Department before starting the period abroad: course in the learning agreement with passed exams will replace the educational activities of the study plan ("manifesto"), either by covering the same topics or complementing the acquired basic competences. The Erasmus Committee at the Computer Science Department will perform the recognition of CFU obtained abroad and the definition of the personalized study plan. Similarly, stages to prepare the final dissertation are allowed in the same foreign universities. Recognition will be performed by the Department Erasmus Committee.

Erasmus: the coordinator for the Department of Informatics is Prof. Fabio Scotti.

International Programs: the coordinator for the Department of Informatics is Prof. Davide Rocchesso.

More information are available at the following link: <https://di.unimi.it/it/rapporti-internazionali/mobilita-internazionale/opportunita-internazionali>

How to participate in Erasmus mobility programs

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

1st COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Coding for Data Science and Data Management	12	(6) SECS-S/01, (6) INF/01
Data-Driven Economic Analysis	12	(3) SECS-P/05, (3) SECS-P/02, (6) SECS-P/01
Machine Learning and Statistical Learning	12	(6) SECS-S/01, (6) INF/01
Statistical Theory and Mathematics	12	(6) SECS-S/01, (6) MAT/08
	Total compulsory credits	48

Elective courses		
Dynamic Economic Modeling	9	SECS-P/01
Introduction to Biostatistics and Epidemiology	9	MED/01
2nd COURSE YEAR (available as of academic year 2026/27) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
Data Governance: Ethical and Legal Issues	6	(3) IUS/09, (3) IUS/20
Privacy, Data Protection and Massive Data Analysis in Emerging Scenarios	12	INF/01
	Total compulsory credits	18
Elective courses		
Advanced Multivariate Statistics	6	SECS-S/01
Bayesian Analysis	6	SECS-S/01
Chemometrics	6	(3) SECS-S/01, (3) CHIM/01
Functional and Topological Data Analysis	6	MAT/06
Marketing Analytics	6	SECS-P/08
Natural Language Processing	6	INF/01
Network Science	6	INF/01
Organizations, Innovations, and Intelligent Technologies	6	SECS-P/10
Probabilistic Modeling	6	SECS-S/01
Reinforcement Learning	6	INF/01
Scientific Data Visualization	6	(3) SECS-S/01, (3) INF/01
Time Series and Forecasting	6	SECS-P/05
Advanced Causal Inference and Policy Evaluation	6	SECS-P/01
Advanced Multivariate Statistics	6	SECS-S/01
Applied Climate Economics	6	AGR/01
Bayesian Analysis	6	SECS-S/01
Environmental data analysis and policy	6	SECS-P/01
Global and Climate Change Economics	6	SECS-P/01
Natural Language Processing	6	INF/01
Network Science	6	INF/01
Probabilistic Modeling	6	SECS-S/01
Reinforcement Learning	6	INF/01
Scientific Data Visualization	6	(3) SECS-S/01, (3) INF/01
Time Series and Forecasting	6	SECS-P/05
Advanced Biostatistics and Epidemiology	6	MED/01
Advanced Causal Inference and Policy Evaluation	6	SECS-P/01
Advanced Multivariate Statistics	6	SECS-S/01
Bayesian Analysis	6	SECS-S/01
Chemometrics	6	(3) SECS-S/01, (3) CHIM/01
Fundamentals of Artificial Intelligence for Data Analysis in Molecular Epidemiology	6	MED/01
Natural Language Processing	6	INF/01
Network Science	6	INF/01
Probabilistic Modeling	6	SECS-S/01
Reinforcement Learning	6	INF/01
Scientific Data Visualization	6	(3) SECS-S/01, (3) INF/01
Further elective courses		
Additional Language Skills: Italian (3 ECTS)	3	ND
Transversal Skills	3	NA
	3	NA
Training and orientation internship	3	NA
End of course requirements		
Final Exam	12	NA
	Total compulsory credits	12