

Admission procedures

Applicants that meet the entry requirements can send their application on-line.

Joint programme with

Department of Economics, Management and Quantitative Methods

Via Conservatorio, 7 - 20122 Milan, Italy



Data
Science for
Economics

Online Application

- Curriculum Vitae
- Official transcript of records
- Copy of ID or Passport
- B2 level English certificate (if any)

Visit our website

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

Department of Computer Science
“Giovanni degli Antoni”
Via Celoria 18 – 20133 Milan, Italy

**TWO-YEAR
MASTER DEGREE IN**

An application fee of 30€ is required.
Credit card or MAV payments accepted.

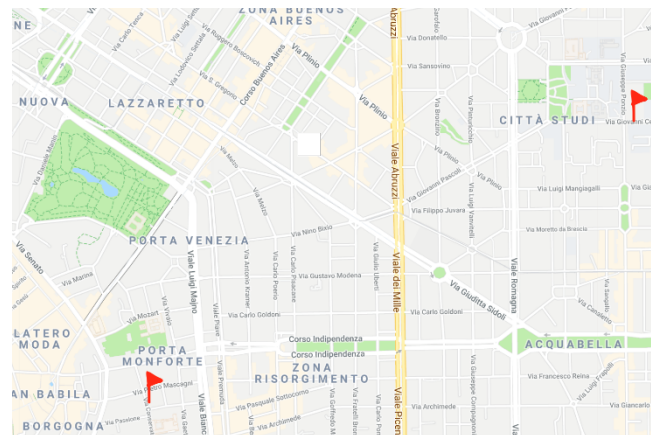
80-100 students are expected to enroll each year.

Admission is based on academic excellence and background coherence.

For further details:

- <https://dse.cdl.unimi.it>
- <https://www.facebook.com/dseunimi>
- @dse_unimi

How to reach



**Data Science for
Economics**
(Laurea Magistrale LM-DATA)



UNIVERSITÀ DEGLI STUDI
DI MILANO

OVERVIEW

The Master degree in Data Science for Economics aims at offering an exclusive and high-quality study programme.

This internationally-oriented master degree is intended to provide students with both an excellent academic training and operational skills, as well as with a promising outlook for a future career as **data scientist**.

The Master degree in Data Science for Economics is a genuinely multidisciplinary programme, offering a well-balanced set of courses in computer science, statistics and economics. The programme is entirely taught in English.



QUALIFICATIONS

Graduates of the Master's programme in Data Science for Economics are qualified to be tomorrow's experts in the increasingly complex world of new data emerging in all fields, in particular in Economics.

Prospect careers include:

Data Scientist

Data Analyst

Data Driven Economist

Data-Driven Decision Maker

Analyst of development projects or economic policies

THE STUDY PROGRAMME

math: mathematics; stat: statistics; cs: computer science; econ: economics

<i>FIRST YEAR</i>	<i>ECTS</i>	<i>Area</i>
Statistical Theory and Mathematics	12	math/stat
Coding for Data Science and Data Management	12	cs/stat
Data-Driven Economic Analysis	12	econ
Machine Learning and Statistical Learning	12	cs/stat
Dynamic Economic Modeling	9	econ
Total number of credits in the first year	57	

<i>SECOND YEAR (mandatory courses)</i>	<i>ECTS</i>	<i>Area</i>
Privacy, Data Protection, and Massive Data Analysis in emerging scenarios	12	cs
Cybersecurity and Protection of Personal Data: Legal and Policies issues	6	law
Cumulative number of credits	75	

<i>SECOND YEAR (two alternative paths)</i>	<i>ECTS</i>
Data Science path	18
Economic Data Analysis path	18
Cumulative number of credits	93

<i>SECOND YEAR (further activities)</i>	<i>ECTS</i>
Elective courses	9
Transversal skills	3
Internship	3
Master's thesis	12
Total number of credits at the end of the programme	120

Each alternative path consists of three courses chosen among those provided by the faculty board. Students can also add elective courses or laboratories to complete their study plan.

DSE enrolment fees vary from a minimum of € 156 to a maximum of about € 4.000 per year, depending on family income.

ENTRY REQUIREMENTS

This programme is intended for highly-qualified national and foreign students willing to explore advanced topics in computer science, statistics, and economics with the aim of becoming data scientists.

In the second year, students may choose their favorite path among: **Data Science (DS)** and **Economic Data Analysis (EDA)**.

Courses available for the **DS** path: *Functional and Topological Data Analysis, Marketing analytics, Network Science, Project Management and Innovation, Reinforcement learning*.

Courses available for the **EDA** path: *Causal Inference and Policy Evaluation, Experimental Methods and Behavioral Economics*.

Courses available for **both paths**: *Advanced Multivariate Statistics, Bayesian analysis, Text Mining and Sentiment Analysis, Time Series and Forecasting*.

Applicants must possess an adequate knowledge in economics, statistics, computer science, and mathematics, as well as English (B2 level or higher). Applicants may come from various bachelor's, but must have earned at least 30 ECTS in computer science and mathematics (scientific disciplinary sectors: from MAT-01 to MAT-09, INF-01, ING-INF/05) and/or in the area of economic sciences and statistics (scientific disciplinary sectors: SECS-S/01, SECS-S/02, SECS-S/03, SECS-S/06, SECS-P/05, SECS-P/01, SECS-P/02, SECS-P/03, SECS-P/07, SECS-P/08, SECS-P/10).

Assessment of personal competencies and skills is enforced through a written online admission test in English. An oral, technical, online interview can be required by the Admission Committee to verify the individual knowledge and skills of each candidate.

Full details on this Master's programme:

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