

Admission procedures

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

Joint programme with

Department of Computer Science
Via Celoria, 18 – 20133 Milan

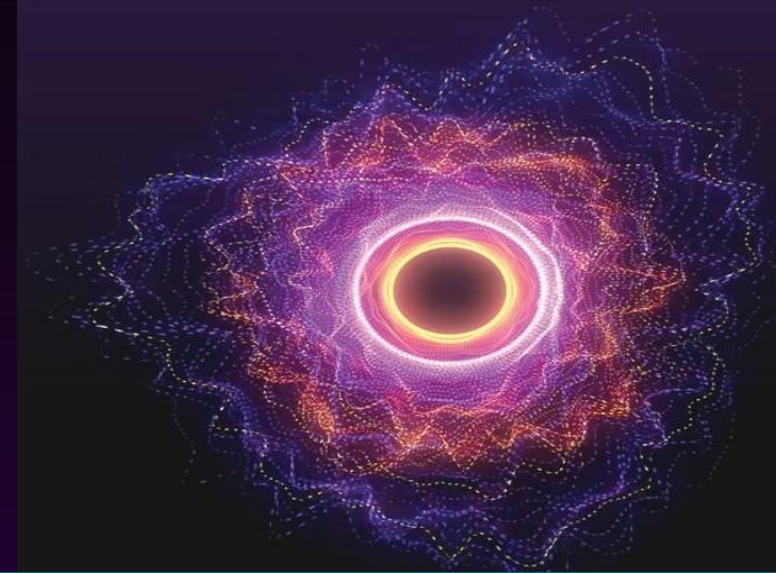


Online Application

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

Enquiries

DSE Secretariat e-mail: dse@unimi.it




Department of Economics,
Management and Quantitative Methods
Via Conservatorio, 7 - 20122 Milan

**TWO-YEAR
MASTER DEGREE IN**


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

The DSE Admission Board will evaluate academic and personal background and will invite eligible candidates who meet the entry requirements for an interview to be held online (e.g. via Skype or similar) in June and in July.

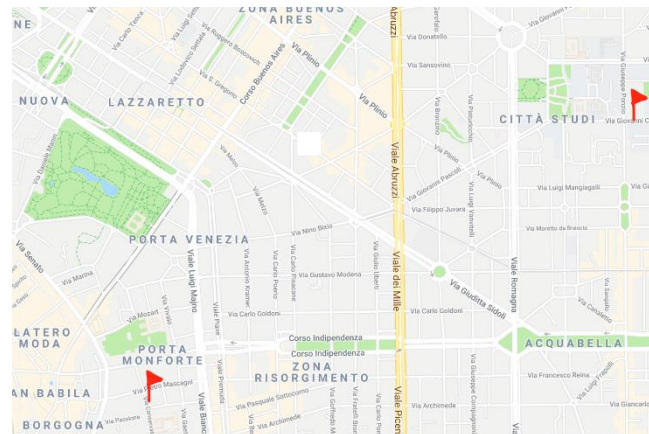
For further details:

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

 <https://www.facebook.com/dseunimi>

 @dse_unimi

How to reach



Data Science & Economics

(Laurea Magistrale LM-91)



UNIVERSITÀ DEGLI STUDI
DI MILANO

OVERVIEW

The Master degree in Data Science & 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 & 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 & Economics are qualified to be tomorrow's experts in the increasingly complex world of new data emerging in all fields of social sciences, economics, business and finance.

Prospect careers include:

- Data Scientist
- Data Driven Economist
- Data Driven Decision-Maker
- Analysts of Projects and Policies
- Marketing Analytics Manager

THE STUDY PROGRAMME

<i>FIRST YEAR</i>	<i>ECTS</i>	<i>Area</i>
Advanced Micro and Macroeconomics	12	econ
Coding for Data Science and Data Management	12	cs/stat
Graph Theory, Discrete Mathematics and Optimization	12	math
Machine Learning, Statistical Learning, Deep Learning and Artificial Intelligence	12	cs/stat
Micro-econometrics, Causal Inference and Time Series Econometrics	12	econ/stat
Total number of credits in the first year	60	

<i>SECOND YEAR (mandatory courses)</i>	<i>ECTS</i>	<i>Area</i>
Algorithms for Massive Data, Cloud and Distributed Computing	12	cs
Cybersecurity and Privacy Preservation Techniques, Digital Security and Privacy	6	law
Cumulative number of credits	78	

<i>SECOND YEAR (three alternative paths)</i>	<i>ECTS</i>
Economics path	18
Business Innovation path	18
Social Science path	18
Cumulative number of credits	96
Elective courses	12
Internship	3
Master's thesis	9
Total number of credits at the end of the programme	120

Each alternative path is made of three courses chosen among a set prepared by the faculty. Students can also add two or more elective courses 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 learn advanced topics in computer science, statistics and economics with the aim of becoming data scientists.

Second year students may choose their favorite path among: **Economics, Business Innovation** and **Social Sciences**.

A non exhaustive list of courses is: *Probabilistic Modeling, Advanced Multivariate Statistics, Bayesian Analysis, Text Mining and Sentiment Analysis, Patients' Needs and Healthcare markets, Fintech Industry, Labour Economics and Policy Evaluation, Project Management and Innovation in the Era of Big Data, Social Network Analysis, Knowledge Extraction and Information Retrieval, Portfolio Optimization, Marketing Analytics, Digital Business Strategies, Game Theory, Digital Society*.

80-100 students are expected to enroll each year.

Admission is based on academic excellence and background coherence.

Applicants must possess an adequate knowledge in economics, statistics, computer science and mathematics.

An undergraduate degree of at least 180 ECTS is required in one of the following (or related) fields: economics, statistics, mathematics, engineering, computer science, physics, business administration.

The minimum requirements are:

- 12 ECTS in computer science and/or mathematics
- 12 ECTS in economics and/or statistics
- English knowledge (B2 or higher)

For full details on this Master's programme:

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