

## Admission procedures

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

## Joint program with

Department of Computer Science, Via Celoria 18

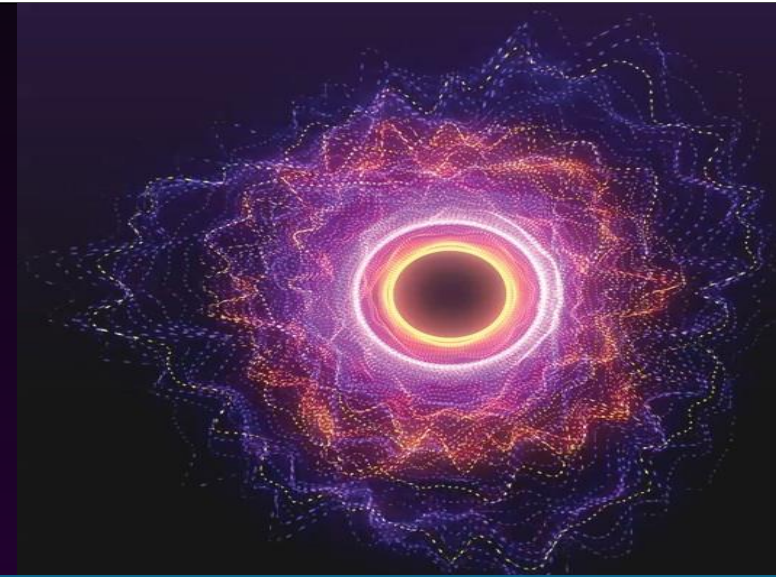


## Enquiries:

DSE Secretariat: Tel. +39 02 503 21553  
Tel. +39 02 503 21527  
E-mail: dse@unimi.it

## Online Application

- Curriculum Vitae
- Letter of motivation
- Official transcript of records
- Recommendation letter(s)
- Copy of ID or Passport




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

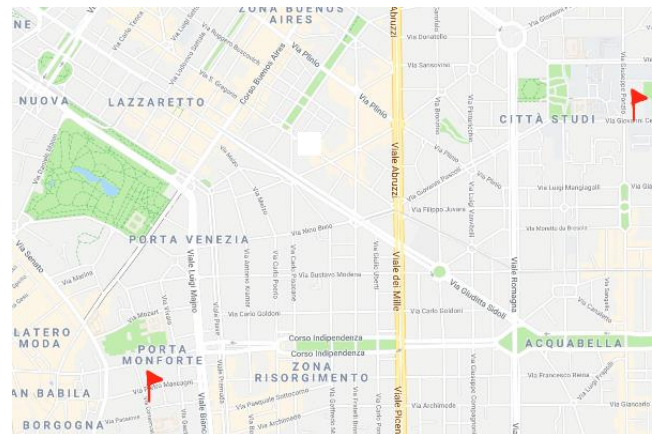
**TWO-YEAR  
MASTER DEGREE IN**

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 in telematics form (via Skype or similar) from mid March till mid July each year.

## For further details:

-  <http://www.dse.unimi.it>
-  <http://www.facebook.com/dseunimi>
-  Twitter: @dseunimi

## 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 program 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

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

SECOND YEAR	ECTS	Area
Algorithms for Massive Data, Cloud and Distributed Computing	12	cs
Cybersecurity and privacy, Preservation Techniques and Digital Security and Privacy	6	law
Cumulative number of credits earned after the second year's mandatory courses	78	

THREE CURRICULA	ECTS
Economics	96
Business Innovation	96
Social Science	96
Cumulative number of credits earned	96
Elective courses	12
Internship	3
Master thesis	9
Total at the end of the programme	120

Each curriculum is made of three courses chosen among a set prepared by the faculty. The student can also add two or more elective courses to complete their study path.

DSE enrolment fees vary from a minimum of about 156 Euros to a maximum of about 3.900 Euros per year, depending on family income.

## ENTRY REQUIREMENTS

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

study programme choosing courses designed for one of the three curricula: **Economics, Business Innovation and Social Sciences**. A non exhaustive list of courses is: *Probabilistic Modeling, Advance Multivariate Statistics, Text Mining and Sentiment Analysis, Patients' Needs and Healthcare markets, Fintech Industry, Intellectual Property for Business: Strategy and Analysis, Project Managements 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*.

About **50 students** are expected to enrol each year. Admission is based on academic excellence and motivation.

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

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

requirements are:

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

For full details on this Master programme visit [www.dse.unimi.it](http://www.dse.unimi.it)