

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
and Health

Online Application

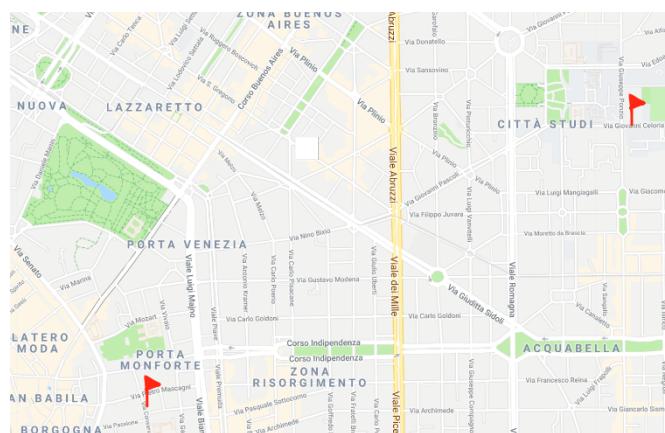
- Curriculum Vitae
- Official transcript of records
- Copy of ID or Passport
- B2 level English certificate (if any)

Visit our website

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

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

How to reach



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://dseh.cdl.unimi.it>
- <https://www.facebook.com/dseunimi>
- [@dse_unimi](https://www.instagram.com/@dse_unimi)

**TWO-YEAR
MASTER DEGREE IN**

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



UNIVERSITÀ DEGLI STUDI
DI MILANO

OVERVIEW

The Master degree in Data Science for Economics and Health 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 and Health 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 and Health are qualified to be the tomorrow's experts to interpret and analyze data-driven complex phenomena in all fields, with focus on Economics and Health applications.

Prospect careers include:

- **Data Scientist / Data Analyst**
- **Data Driven Economist**
- **Data-Driven Decision Maker**
- **Analyst of development projects or economic policies**
- **Health Analyst**

THE STUDY PROGRAMME

math: mathematics; stat: statistics; cs: computer science; econ: economics; med: medical sciences.

FIRST YEAR	ECTS	Area
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 / Introduction to Biostatistics and Epidemiology	9	econ/med
Total number of credits in the first year	57	

SECOND YEAR (mandatory courses)	ECTS	Area
Privacy, Data Protection, and Massive Data Analysis in emerging scenarios	12	cs
Data Governance: Ethical and Legal Issues	6	law
Cumulative number of credits	75	

SECOND YEAR (three alternative paths)	ECTS
Data Science path	18
Economic Data Analysis path	18
Health	18
Cumulative number of credits	93

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

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

PATHS AND ENTRY REQUIREMENTS

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

Courses in the **DS** path: *Chemometrics; Functional and Topological Data Analysis; Marketing analytics; Organizations, Innovations, and Intelligent Technologies; Time Series and Forecasting*.

Courses in the **EDA** path: *Advanced Causal Inference and Policy Evaluation; Applied Climate Economics; Global and Climate Change Economics; Environmental Data analysis and Policy*.

Courses in the **HEA** path: *Fundamentals of Artificial Intelligence for Data Analysis in Molecular Epidemiology*.

Courses in **all paths**: *Advanced Multivariate Statistics; Bayesian analysis; Natural Language Processing; Network Science; Reinforcement learning; Scientific Data Visualization*.

Applicants must possess 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 (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), and/or medical sciences (MED/01).

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 degree programme:

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