

Master's Degree in Data Science

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Department

Mathematic's and Computer Science, Physics and Earth Science

> Duration 2 years

Programme overview

The Master's Degree Course in Data Science is aimed at all Bachelor's Degree graduates who are interested in deepening information and artificial intelligence technologies useful for selecting, processing, analyzing large amounts of data, applying this knowledge in corporate decision-making processes, in order to extract added value in various application areas.

Three curriculum are available:

Information and Communication Technology (ICT), investigating Big Data, Software Defined Networking, Cloud, Edge Computing and the Internet of Things (IoT); Economics, exploring the principles of Data Economy, Data-driven Business and Business Intelligence; and Forensics, investigating intelligent anti-fraud, anticrime, forensic, fakeness, data governance and digital sovereignty systems.

Minimal entry requirements

A Bachelor's Degree of scientific or economics area is mandatory. Basic certified knowledges of mathematics and computer science are required.

Language requirements

International English language certificate issued by an Institution recognized by the Italian Ministry of University and Research (MUR), B2 level of the <u>Common European Framework of Reference</u>.



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This course helped me gain skills to use a variety of quantitative methods in the analysis of huge volumes of data. I consider myself fortunate to enroll in the Masters in Data Science program at UniMe and believe it will help me gain a global approach to Big Data and teach me how I could apply the skills I've gained moving ahead.

Study programme

Data Science class degree (LM-DATA)

YEAR 1

Common to all curriculum:

-Probability and Statistical Inference

-Advanced algorithms and computational models

-Modelling for data Analysis: module "Optimization for data science",

module "Statistical models for large datasets"

-Intelligent Systems and Machine Learning

-Data Security, Privacy and Blockchain

-Private Law for Information Technology

YEAR 2

Curriculum ICT

-High performance Computing

-Digital Management for Data Science

-Big Data: module "Big Data Acquisition", module "Big Data Analytics"

-Machine Learning in the Cloud and at the Edge

-Deep Learning Algorithms

-Class of student's choice (among suggested ones)

-Further linguistic knowledges

-Activities of student's choice

-Internship

-Thesis

Curriculum Economy

-High performance Computing

-Digital Management for Data Science

-Big Data: module "Big Data Acquisition", module "Big Data Analytics"

-Information Security Management Systems

-Emerging Technologies for Accounting and Accountability

-Class of student's choice (among suggested ones)

-Further linguistic knowledges

-Activities of student's choice

-Internship

-Thesis

Curriculum Forensics

-High performance Computing

-Digital Management for Data Science

-Artificial Intelligence for forensics: module "Statistics for forensics science", module "Bio-inspired Artificial Intelligence"

-Bioinformatics and genetics with application in Forensic Sciences -Crime Scene Investigation

-Class of student' choice (among suggested ones)

-Further linguistic knowledges

-Activities of student's choice

-Internship

-Thesis

Tuition fees

A fixed fee (€ 156.00) and a remaining amount of tuition calculated on the basis of a sliding scale. For further information go to <u>https://international.unime.it/study-with-us/tuition-fees/</u>

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