Master's degree program in DATA SCIENCE

A.Y. 2024-2025

Study plan and useful information

University account

▶ The University email address (username@campus.unimib.it) is usually activated a few days after the payment of the first installment.

▶ Students will have to use the university email for every communication with the University offices.

▶ To access the University mailbox:
Italian: https://www.unimib.it/ > Accedi a (comando in alto a destra) > Webmail
English: https://en.unimib.it/ > Acces to (on the top right) > Webmail

▶ University badge is sent by post to the home address (*indirizzo di domicilio*) entered by the student. In case of problems please write to the address: segr.studenti.scienze@unimib.it
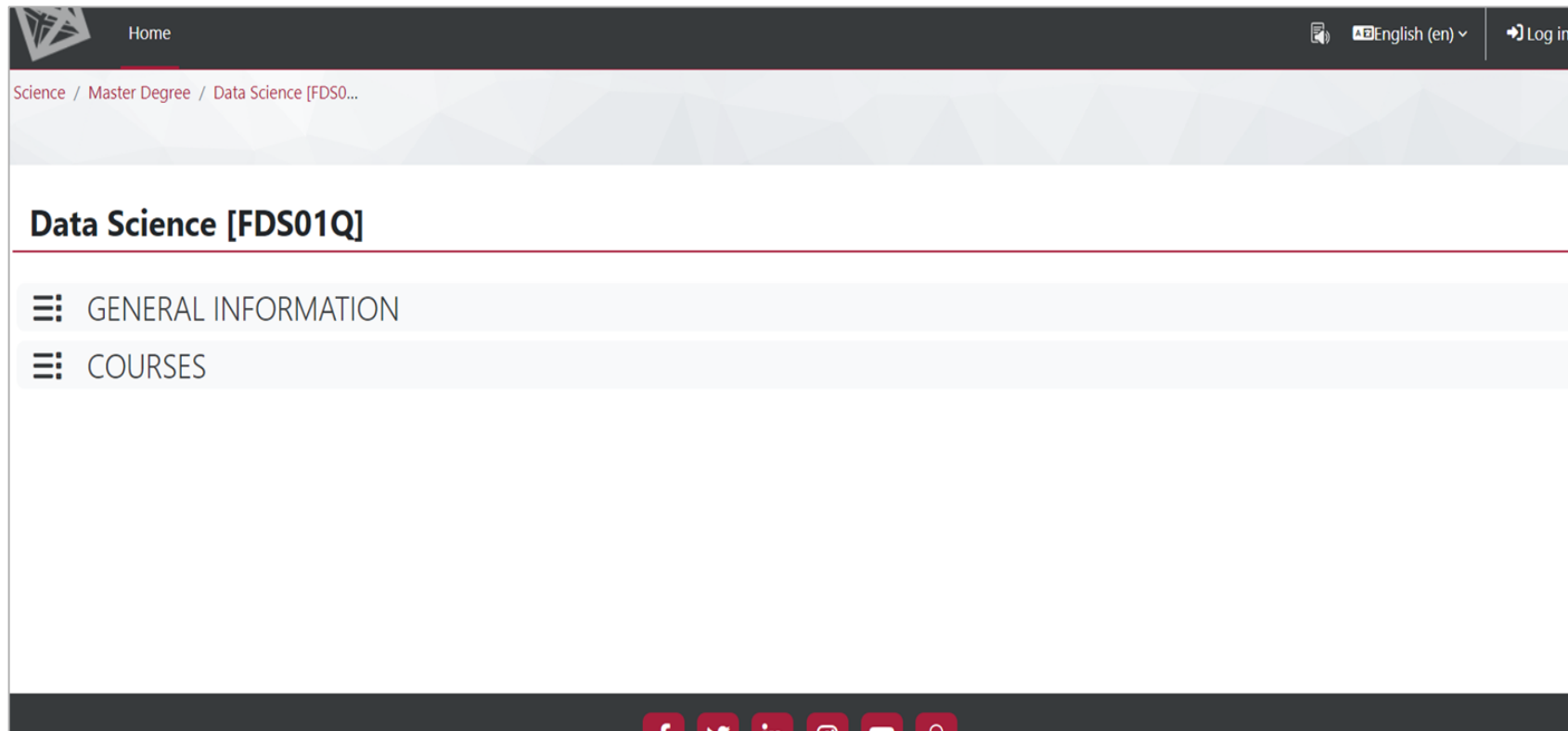
IMPORTANT TOOLS:

► 1) **Personal page on "Segreterie Online"**:
Italian: https://s3w.si.unimib.it/Home.do
English:https://s3w.si.unimib.it/Home.do;jsessionid=7F874ABC4258358934FF978C
B848F0EF.esse3-unimib-prod-02?cod_lingua=eng
After authentication, you can access from the menu to check the status of your
career, manage and change your study plan, ISEE declaration, 150 hours,
scholarships. From this page, it is also possible to register for the exam sessions.

► 2) **University website (**https://en.unimib.it/**).** Here you will find the general
information common to all the degree courses offered by the University and the
specific information of the degree courses, as well as the most frequently used
online services and much information about several issues.

► 3) **Agenda Web:** https://gestioneorari.didattica.unimib.it/PortaleStudentiUnimib/
to check lessons schedule, exams, etc.
Please check frequently the lessons schedule.

► 4) **E-learning platform** of Data Science (see next page).

E-learning webpage of the program

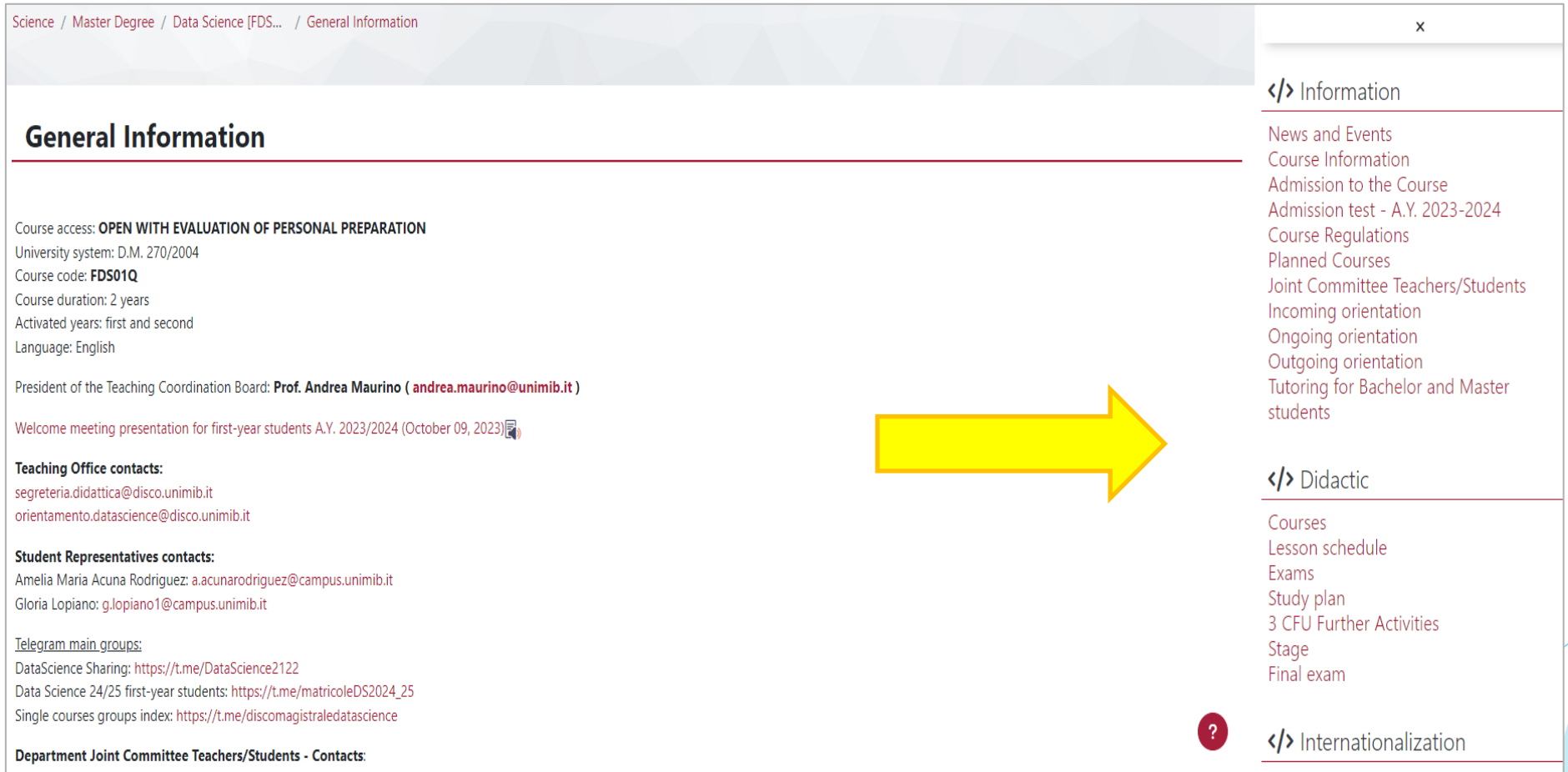**https://elearning.unimib.it/course/index.php?categoryid=9172&lang=en**

All students regularly enrolled in the study program can take advantage of the services offered on the E-learning platform. In order to access you must authenticate with the University e-mail credential (only some general sections are open access).

The«General information» section provides much useful information (such as News and Events, Didatic Regulation, classes schedule webpage, traineeship, final thesis...). Its pages are periodically updated.

The "Courses" section provides details such as professor names, syllabus and exam modalities.

PLEASE REMEMBER TO SUBSCRIBE THE E-LEARNING PAGE OF THE COURSES YOU FOLLOW!
In this way you can receive the information and contents shared by lecturers.

In order not to lose any of this information, it is therefore important to enrol in Data Science as soon as possible, get the Unimib account and subscribe those course pages.

You can subscribe to first semester courses whose classes have just started.

Science / Master Degree / Data Science [FDS... / Courses / A.A. 2024-2025 / 1st year

1st year

Course	ECTS	
Data Management and Visualization 2425-1-FDS01Q001	ECTS: 12	SYLLABUS
Data Science Lab 2425-1-FDS01Q003	ECTS: 6	*i* SYLLABUS
Data Semantics 2425-1-FDS01Q010	ECTS: 6	*i* SYLLABUS
Financial Markets Analytics 2425-1-FDS01Q007	ECTS: 6	*i* SYLLABUS
Foundations of Computer Science 2425-1-FDS01Q009	ECTS: 6	*i* SYLLABUS
Foundations of Deep Learning 2425-1-FDS01Q012	ECTS: 6	*i* SYLLABUS
Foundations of Probability and Statistics 2425-1-FDS01Q006	ECTS: 6	*i* SYLLABUS
Green Computing 2425-1-FDS01Q041	ECTS: 6	*i* SYLLABUS
Juridical and Social Issues in Information Society 2425-1-FDS01Q005	ECTS: 6	*i* SYLLABUS
Machine Learning and Decision Models 2425-1-FDS01Q002	ECTS: 12	SYLLABUS
Marketing Analytics 2425-1-FDS01Q008	ECTS: 6	

WHAT IS MY STUDY PLAN?

1 YEAR
(A.Y. 2024-2025)

1 group - Compulsory courses:

42 CFU MANDATORY ACTIVITIES:	CFU	Semester
DATA MANAGEMENT AND VISUALIZATION FDS01Q001	12	first
JURIDICAL AND SOCIAL ISSUES IN INFORMATION SOCIETY FDS01Q005	6	first
MACHINE LEARNING AND DECISION MODELS FDS01Q002	12	first and second
STATISTICAL MODELLING FDS01Q040	6	first
DATA SCIENCE LAB FDS01Q003	6	first

2 group - Compulsory course to be chosen:

6 CFU TO BE CHOSEN BY THE STUDENT Students have to choose one among the courses below:	CFU	Semester
FOUNDATIONS OF PROBABILITY AND STATISTICS FDS01Q006	6	first
MARKETING ANALYTICS FDS01Q008	6	second
FINANCIAL MARKETS ANALYTICS FDS01Q007	6	second

3 group - Compulsory course to be chosen:

6 CFU TO BE CHOSEN BY THE STUDENT Students have to choose one among the courses below:	CFU	Semester
FOUNDATIONS OF COMPUTER SCIENCE FDS01Q009	6	first
DATA SEMANTICS FDS01Q010	6	second
FOUNDATIONS OF DEEP LEARNING FDS01Q012	6	second
GREEN COMPUTING (new) FDS01Q041	6	second

2 YEAR
(A.Y. 2025-2026)

1 group - Compulsory course:

6 CFU MANDATORY ACTIVITY:	CFU	Semester (hypothesis)
TEXT MINING AND SEARCH FDS01Q013	6	first

2 group - Compulsory course to be chosen:

6 CFU TO BE CHOSEN BY THE STUDENT Students have to choose one among the courses below:	CFU	Semester (hypothesis)
CYBERSECURITY FOR DATA SCIENCE FDS01Q015	6	first
TECHNOLOGICAL INFRASTRUCTURES FOR DATA SCIENCE FDS01Q016	6	first
DIGITAL SIGNAL AND IMAGE MANAGEMENT FDS01Q017	6	first
SOCIAL MEDIA ANALYTICS FDS01Q018	6	first
SERVICE SCIENCE FDS01Q019	6	first
BUSINESS INTELLIGENCE AND BIG DATA ANALYTICS FDS01Q037	6	first
NATURAL LANGUAGE PROCESSING FDS01Q011	6	second
REINFORCEMENT LEARNING (new) FDS01Q042	6	first

3 group - Compulsory course to be chosen:

6 CFU TO BE CHOSEN BY THE STUDENT Students have to choose one among the courses below:	CFU	Semester (hypothesis)
ECONOMICS FOR DATA SCIENCE FDS01Q021	6	second
HIGH DIMENSIONAL DATA ANALYSIS FDS01Q022	6	first
STREAMING DATA MANAGEMENT AND TIME SERIES ANALYSIS FDS01Q023	6	first

4 group - Compulsory course to be chosen:

6 CFU TO BE CHOSEN BY THE STUDENT Students have to choose one among the courses below:	CFU	Semester (hypothesis)
DATA SCIENCE LAB IN ENVIRONMENT AND PHYSICS FDS01Q024	6	second
DATA SCIENCE LAB IN BIOSCIENCES FDS01Q025	6	second
DATA SCIENCE LAB IN MEDICINE FDS01Q026	6	second
DATA SCIENCE LAB IN BUSINESS AND MARKETING FDS01Q027	6	second
DATA SCIENCE LAB IN PUBLIC POLICIES AND SERVICES FDS01Q043	6	second
DATA SCIENCE LAB ON SMART CITIES FDS01Q038	6	second

5 group - Other compulsory activities:

OTHER MANDATORY ACTIVITIES:	CFU	NOTES
ACTIVITIES TO BE FREELY CHOSEN BY THE STUDENT	12	Students can choose among the compulsory courses to be chosen (not previously selected) within Data Science, or other courses offered by the University.
FURTHER DIDACTIC ACTIVITIES: **FURTHER LANGUAGE SKILLS /** **OTHER ACTIVITIES USEFUL FOR JOB PLACEMENT**	3	FOREIGN students have to choose «Further languague skills» only: Italian proficiency (A2 level) by University test or certification accredited by the University. ITALIAN students can choose between a) «Further languague skills»: English proficiency (C1 level) or French, Spanish, German (B2 level) by University test or certification accredited by the University. b)«Other activities useful for job placement»: specific integrative activites that are described in the E-learning page.
STAGE/TRAINEESHIP	6	Requirement to start the traineeship: at least 54 CFU. It can be carried out 1) externally at a Company/Institution; b) internally at a university laboratory; c) Project Work solution for working students.
FINAL THESIS	21	Requirement to start the final thesis: at least 54 CFU.

STUDY PLAN ON «SEGRETERIE ONLINE»

► A statutory study plan is conferred to all enrolled students at the beginning, which includes mandatory activities only (please see slide no. 7).

► Students are required to submit their own study plan, setting out all activities. The study plan will be approved by the Didactic body.

► Until the implementation of the modified study plan, students are bound to the submitted and approved plan and cannot sign up for other exams not included in it.

► The study plan can be submitted within the established deadlines (the dates below are to be confirmed):

❑ **First period: 5-28 November 2024**

❑ **Second period: 4-28 March 2025**

❑ **Special period: 9-31 January 2025 (ONLY for students enrolled in the first year who in the previous November month had not yet achieved the bachelor's degree)**

► We will inform students by Forum when the dates are official, together with the instructions to submit the study plan.

Where can I find the course organization?

▶ **Didactic Regulation A.Y. 2024/2025**
Data Science E-learning page
https://elearning.unimib.it/course/index.php?categoryid=9172&lang=en > General Information > click at the top right «Open block drawer» > Information > Didactic Regulation section.

▶

▶ **Summary table A.Y. 2024/2025**
Data Science E-learning page
https://elearning.unimib.it/course/index.php?categoryid=9172&lang=en > General Information > click at the top right «Open block drawer» > Didactic > Study plan

MAIN EMAIL ADDRESSES AND LINKS

► Data Science President prof. Andrea Maurino: andrea.maurino@unimib.it

► Data Science Teaching Services office: segreteria.didattica@disco.unimib.it

► Students Secretariat (all procedures on "Segreterie Online" and career actions): segr.studenti.scienze@unimib.it

► Welcome Desk (administrative/bureaucratic procedures for extra-EU students/Universitaly):
visa.applicationforstudy@unimib.it and welcome.desk@unimib.it
Webpage: https://en.unimib.it/education/teaching/how-enrol-information-international-students

► Taxes, scholarships, accommodation: segr.studenti.tasse@unimib.it and dsu@unimib.it
Webpage: https://en.unimib.it/services/offices-and-facilities/fees-and-funding and
https://www.unimib.it/servizi/studenti-e-laureati/diritto-allo-studio-tasse-150-ore

MAIN EMAIL ADDRESSES AND LINKS

► Erasmus/International mobility: outgoing.erasmus@unimib.it and Bicocca University Angels: info.erasmus@unimib.it
Webpage: https://www.unimib.it/internazionalizzazione/bicocca-international/mobilita-internazionale

Data Science Erasmus coordinator prof. Elisabetta Fersini: elisabetta.fersini@unimib.it

► Stage office: stage@unimib.it
Webpage: https://www.unimib.it/servizi/stage-e-tirocini

► B-Inclusion office (for students with disabilities and specific learning disorders "DSA"): helpdesk.binclusion@unimib.it
Webpage: https://en.unimib.it/services/offices-and-facilities/disability-sld-binclusion-space

► Psychological counselling: counselling.psicologico@unimib.it

All contacts are available at the webpage:

https://www.unimib.it/servizi/studenti-e-laureati/segreterie (ita)

https://en.unimib.it/services/offices-and-facilities/student-services (en)

under «Science Area»

Please do not send the same question to different addresses though multiple emails!

If you are not sure you can write to segreteria.didattica@disco.unimib.it and we will inform you about the correct address; otherwise you can send just 1 email to all addresses you are in doubt with.

Offices usually answer within 1 to 5 days (it may take longer at certain times of the year), therefore please be patient.

For extra-EU students:

ENTRY VISA

➢ Please remember to enrol in Data Science and pay the first instalment (by October 25, 2024) in order to get the admission letter for Embassy's summary (if you haven't already done).

➢ Refusal or failure to obtain an entry visa by 30 January 2025 will result in the enrolment cancellation.

➢ If your enrolment is cancelled and you are still interested in Data Science, you will have to submit your admission application again for the A.Y. 2025/2026.

➢ There are no refund policies in case you pay the first instalment and then you do not receive the Visa (since it is a regional tax). The first instalment paid can't be refunded.

➢ When your Visa is issued, please inform the competent office: visa.applicationforstudy@unimib.it

For extra-EU students:

ITALIAN LANGUAGE

As described in slide no. 13, foreign students (non-Italian speakers) must obtain the «Further activities» 3 CFU only through the Italian proficiency (A2 level) by University test or certification accredited by the University.

Nevertheless, please consider to further improve your knowledge of Italian language, in order to expand your job opportunities.

The University is arranging further Italian language courses (https://en.unimib.it/education/mobility-opportunities/languages-unimib).