



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

Master in Economics and Data Analysis

WHY CHOOSING THE EDA MASTER?

- EDA provides a **unique blend** of **advanced economics** knowledge, cutting-edge **statistical methods** and hands-on experience in processing and interpreting data.
- EDA program matches the benefit of **small classes**, which allows also for relational and communication abilities, with the **international vocation** of the program.
- EDA meets the expectations of very motivated students who are passionate about economics, market analysis and data science in a **challenging environment**



CAREER OPPORTUNITIES

- Students develop the necessary knowledge and the fundamental skill for an effective **decision-making** process and **strategic** business choices
- EDA graduates are prepared for a successful career as **economists** and **data analysts** in companies, business and institutions, as well as research center and international agencies
- EDA graduates are also prepared to create and launch their own entrepreneurial business
- They will also have built the background for pursuing PhD programmes worldwide



COVID-19 UPDATES FOR PROSPECTIVES

- In this health emergency period the University of Bergamo have promptly re-organized **all the academic activities**: lessons, exams and final degrees **are available in the online mode**
- In case the health alert would persist and restrictions to mobility would still be in place, in Italy and worldwide, **EDA will be able to give you access to online lessons and exams during the first term of the academic year 2020-21**



TOPICS AND SUBJECTS

- **Economics:** Advanced Micro and Macroeconomics, Applied Economics (Labor, IO), Economic Policy ...
- **Econometrics- Statistics:** Advanced Econometrics, Probability and Statistics for Business and Finance ...
- **Data analysis:** Data Production and Analysis, Coding and Machine Learning, Text Mining and Sentiment Analysis ...



LEARNING ACTIVITIES

- **Seminars** offered by the Department given by scholars with international standings
 - **Workshops:**
 - Workshop on Advances in Industrial Organization
 - UniBg Experimental Microeconomics Summer Workshop
 - **Kick-off meetings** where professionals, in the fields of economics and data management, present their current job and career development experience.
 - **No One Left Behind:** a teaching quality program to help students with difficulties to attend classes and pass the exams.
 - **Crash courses:** Math, Econometrics, STATA
- Attendance to Seminars and Workshop up to 3 CFU***
- *1 CFU=1 ECTS



SOFT SKILLS

Teaching Quality Program: **Fly Higher**

The program develops competencies, via educational activities inside and outside the classroom, that promote **teamwork skills**, **ability to present** and **discuss the results** of one's work effectively, related to the use of large-scale databases.

- Advanced report writing
- Public speaking
- Hackaton
- Focus: Blockchain and Crowdfunding



STAGES AND INTERNSHIPS

- Learning process is enhanced by direct involvement of the students in **internship/stage**. It is geared toward the choice of the professional path and to the knowledge of the job market
- **Private Sector:** UBI Banca, inTwig, GEFRAN spa, Rationis, ...
- **Public Sector:** ISTAT, Istituto per la Ricerca Sociale (IRS), ...
- **International institutions:** World Bank, IMF, Inter American Development Bank



INTERNATIONAL VOCATION

- **Erasmus program** - MSc in Economics and Business for EDA students (e.g.):
 - Maastricht University (The Netherlands)
 - Universität Augsburg (Germany)
 - ESC Clermont, Graduate School of Management (France)
 - EDC Paris Business School (France)
 - Ulster Business School (United Kingdom)
 - Geneva School of Economics and Management (Switzerland)
- **International stage:** World Bank (Washington), IMF (Washington), IADB (Washington)
- **Double Degree** with MSc Economics - European Economic Integration” (Trier University)
 - 2 years of study (four terms) = 120 CFU
 - 1st year at Bergamo University EDA: 60 CFU
 - 2nd year at Trier University (Germany): 30 CFU exams + 30 CFU final dissertation
 - Max 5 students of the EDA program per a.y., subject to selection.



VISITING PROFESSOR

Each a.y. 20% of the teaching is performed by **visiting professors**:

- Elena Cavagnaro, Stenden University
- Inmaculada Cebrian Lopez, Universidad de Alcala de Henares
- Steven Fazzari, Washington University in St. Louis
- Roberto Galbiati, Sciences Po and CNRS
- Virgilio Gomez Rubio, University of Castilla-La Mancha
- Christine Helliar, University of South Australia Business School
- Orietta Marsili, University of Bath
- Yeva Nersisyan, Franklin & Marshall College
- Alain Pirotte, CRED - University of Paris II and TEPP
- L. Randall Wray, Levy Economics Institute of Bard College
- Thomas Zwick, University of Julius-Maximilians-Universität Würzburg (JMU)





THREE CURRICULA

1. **Economics and Data Analysis (ED)**
 2. **Data Science (DS)**
 3. **European Master in Official Statistics (EMOS)**
- The **ED** and **DS** curricula share the first term track. In the second term:
 - ED provides three economics courses (Empirical Labour Economics, Empirical Industrial Dynamics and Industrial Organization)
 - DS offers three courses on data management (Data Management for Communication, Big Data Management, Text Mining and Sentiment Analysis)
 - The **EMOS** curriculum is mainly concerned with the empirical economics topics as well as the statistical methods. Differently, from the two previous curricula, the stage at a certificated institution (ISTAT) is compulsory for the program



STUDY PLAN(S)

Curriculum ED

1st YEAR (a.y. 2020-21)	credits
Coding and Machine Learning:	12
Coding for Data Science	
Machine Learning for Economics	
Empirical Methods in Impact Evaluation	6
Advanced Microeconomics	9
Data Production and Analysis	6
Advanced Macroeconomics	9
Advanced Econometrics	6
Empirical Labour Economics	6
Empirical Industrial Dynamics	6
Industrial Organization - Applied Microeconomics	6
2nd YEAR (a.y. 2021-22)	
Markets and Companies Law	6
European Economic Policy	6
Financial Markets and Institutions (advanced)	12
Elective courses*	12
Final dissertation	18

Curriculum DS

1st YEAR (a.y. 2020-21)	credits
Coding and Machine Learning:	12
Coding for Data Science	
Machine Learning for Economics	
Empirical Methods in Impact Evaluation	6
Advanced Microeconomics	9
Data Production and Analysis	6
Advanced Macroeconomics	9
Advanced Econometrics	6
Data Management for Communication	6
Big Data Management	6
Text Mining and Sentiment Analysis	6
2nd YEAR (a.y. 2021-22)	
Markets and Companies Law	6
European Economic Policy	6
Financial Markets and Institutions (advanced)	12
Elective courses*	12
Final dissertation	18



STUDY PLAN(S)

Curriculum EMOS

1st YEAR (a.y. 2020-21)	credits
Coding and Machine Learning:	12
Coding for Data Science	
Machine Learning for Economics	
Empirical Methods in Impact Evaluation	6
Markets and Companies Law	9
Data Production and Analysis	6
Advanced Macroeconomics	9
Advanced Econometrics	6
Empirical Labour Economics	6
Empirical Industrial Dynamics	6
Text Mining and Sentiment Analysis	6
2nd YEAR (a.y. 2021-22)	
European Economic Policy	6
Probability and Statistics for Business and Finance - advanced	9
Financial Markets and Institutions (advanced)	12
1 out of:	
Data Management for Communication	6
Statistics for Management	6
Internship Official Statistics (internship at NSI)*	6
Final dissertation on Official Statistics issues*	18



ADMISSION REQUIREMENTS

- Students holding an **Italian bachelor degree** in classes L-33 **Economics** or L-18 **Management**:
 - direct admission if Bachelor degree mark is at least 80/110
 - an interview if the Bachelor degree mark is below 80/110
- Students holding an **Italian bachelor degree** in classes **other than L-18 or L-33**:
 - a minimum of 48 ECTS in one or more of the following areas: Economics, Business and Management, Statistics, Mathematics, Law, Sociology
 - an interview if the bachelor degree mark is below 90/110
- For **all applicants**: knowledge of English language corresponding to level B2, according to the Common European Framework of Reference for Languages (CEFR)



ADMISSION REQUIREMENTS

Students **not yet graduated** in October but scheduled for graduation on the Spring Session can enroll, under reserve, given that the missing exams do not overcome 24 CFU



IMPORTANT DATES

PRE-ENROLLING

- from April 1st to May 29th 2020
- from July 1st to September 4th 2020

ENROLMENT

- from July 13th to October 30th 2020

For the students who are required to take the **initial evaluation test**:

- The interview will be scheduled between June 22nd to July 3rd 2020 (for those pre-enrolled from April 1 to May 29)
- The interview will be scheduled between September 24th to October 2nd 2020 (for those pre-enrolled from July 1 to September 4)



CONTACTS

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Discover our website:
<https://ls-egm.unibg.it/en>

Location EDA master:
Bergamo (campus: Caniana)

