



MSc

ECONOMICS AND DATA ANALYSIS

WELCOME CLASS

October, 4th 2021



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

Dipartimento
di Scienze Economiche

METHODS of LESSONS 1st TERM 2021-22

- First-term teaching, for all curricula of the EDA program, is **in presence (dual mode)**. The dual mode consists of the simultaneous holding of the lesson in the presence and remotely.
- Access to the university premises and classrooms is regulated by the **online booking system [EasyLesson](#)** and through the **[EasyUniBg app](#)** available in the **[Android](#)** and **[Apple](#)** stores. (The seat in the class can be booked from 5 days in advance)
- Distance lessons and recording will only be held through **Microsoft Teams**, which you may download for free as part of the **[Office365](#)** suite. Recordings are available for *15 days*.
- For any further information please see the web page:
[web page Università di Bergamo](#)



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 most of the courses, with the exception of:
 - **ED** provides three economics courses (Personnel Economics and HR Analytics, Digital Transformations and Policies 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

For further information on **EMOS**

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LM in ECONOMICS AND DATA ANALYSIS (LM-56)

curriculum: *Economics and Data Analysis (ED)*

code	SSD	1st YEAR (a.y. 2020-21)	CFU	LEZ	sem
	SECS-S/06-SECS-S/01	Coding and Machine Learning:			A
mod1	SECS-S/06	Coding for Data Science	6	12	96
mod2	SECS-S/01	Machine Learning for Economics	6		2
110015-ENG	SECS-P/05	Advanced Econometrics	6	48	1
	SECS-P/01	Advanced Microeconomics	9	72	1
110010-ENG	SECS-S/03	Data Production and Analysis	6	48	1
	SECS-P/01	Advanced Macroeconomics	9	72	2
149002-ENG	SECS-P/01	Empirical Methods in Impact Evaluation	6	48	2
149004-ENG	SECS-P/02	Personnel Economics and HR Analytics	6	48	2
	SECS-P/02	Digital Transformations and Policies	6	48	2
110016-ENG	SECS-P/06	Industrial Organization - Applied Microeconomics	6	48	2

total First year credits **66**

code	SSD	2nd YEAR (a.y. 2021-22)	CFU	LEZ	sem
910002-ENG	IUS/04	Markets and Companies Law	6	48	1
149006-ENG	SECS-P/02	European Economic Policy	6	48	1
910006-ENG		Financial Investment and Corporate Finance	12	96	1
		scelta libera - Elective courses	12		
149001-ENG		Prova finale - Final dissertation	18		

total Second year credits **54**

TOTAL CREDITS **120**

curriculum: *Data Science (DS)*

code	SSD	1st YEAR (a.y. 2020-21)	CFU	LEZ	sem
	SECS-S/06-SECS-S/01	Coding and Machine Learning:			A
mod1	SECS-S/06	Coding for Data Science	6	12	96
mod2	SECS-S/01	Machine Learning for Economics	6		2
110015-ENG	SECS-P/05	Advanced Econometrics	6	48	1
	SECS-P/01	Advanced Microeconomics	9	72	1
110010-ENG	SECS-S/03	Data Production and Analysis	6	48	1
	SECS-P/01	Advanced Macroeconomics	9	72	2
149002-ENG	SECS-P/01	Empirical Methods in Impact Evaluation	6	48	2
	SECS-S/01	Data Management for Communication	6	48	2
	SECS-S/06	Big Data Management	6	48	2
	SECS-S/03	Text Mining and Sentiment Analysis	6	48	1

total First year credits **66**

code	SSD	2nd YEAR (a.y. 2021-22)	CFU	LEZ	sem
910002-ENG	IUS/04	Markets and Companies Law	6	48	1
149006-ENG	SECS-P/02	European Economic Policy	6	48	1
	SECS-P/11	Financial Investment and Corporate Finance	12	96	1
		scelta libera - Elective courses	12		
149001-ENG		Prova finale - Final dissertation	18		

total Second year credits **54**

TOTAL CREDITS **120**

curriculum: *European Master in Official Statistics (EMOS)*

code	SSD	1st YEAR (a.y. 2020-21)	CFU	LEZ	sem
	SECS-S/06-SECS-S/01	Coding and Machine Learning:			A
mod1	SECS-S/06	Coding for Data Science	6	12	96
mod2	SECS-S/01	Machine Learning for Economics	6		2
110015-ENG	SECS-P/05	Advanced Econometrics	6	48	1
910002-ENG	IUS/04	Markets and Companies Law	6	48	1
110010-ENG	SECS-S/03	Data Production and Analysis	6	48	1
	SECS-P/01	Advanced Macroeconomics	9	72	2
149002-ENG	SECS-P/01	Empirical Methods in Impact Evaluation	6	48	2
149004-ENG	SECS-P/02	Personnel Economics and HR Analytics	6	48	2
	SECS-P/02	Digital Transformations and Policies	6	48	2
	SECS-S/03	Text Mining and Sentiment Analysis	6	48	1

total First year credits **63**

code	SSD	2nd YEAR (a.y. 2021-22)	CFU	LEZ	sem
910001-ENG	SECS-S/01	Probability and Statistics for Business and Finance - advanced	9	72	1
149006-ENG	SECS-P/02	European Economic Policy	6	48	1
	SECS-P/11	Financial Investment and Corporate Finance	12	96	1
134005-ENG	SECS-S/03 SECS-S/01	Statistics for Management Data Management for Communication (SCelta TRA)	6	48	1 2
110020-ENG	NN	Internship Official Statistics (internship at NSI)	6		
149001-ENG		Prova finale - Final dissertation on Official Statistics issues	18		

total Second year credits **57**

TOTAL CREDITS **120**

EXTRACURR. cfu per LABEL EMOS: Thematic Activities **6**

*THESIS PACKAGES per LABEL EMOS (tot. 42 cfu):			anno	
110026-ENG	SECS-S/01 SECS-S/06	Coding and Machine Learning	1	12
110021-ENG	NN	Thematic Activities Official Statistics 1 (Spring/Summer School EMOS Network/WEBINAIRS)	1	3
110020-ENG	NN	Internship Official Statistics (internship at NSI)	2	6
110100-ENG		Prova finale - Final dissertation on Official Statistics issues	2	18
110022-ENG	NN	Thematic Activities Official Statistics 2 (Spring/Summer School EMOS Network/WEBINAIRS)	2	3



CRASH COURSES

- Crash Courses are provided remotely by the Microsoft Teams platform
- **Math for Economics** Prof. Alessandro Vaglio
- 12 hours, from September, 21st ,2021
- **Statistics** Prof. Ilia Negri
- 15 hours, from September, 21st ,2021
- **Introduction to STATA** Dott. Pedro Trivin Garcia
- 15 hours, from October, 5th ,2021

For further information and the links:
[web page EDA "How to" --> For prospective students](#)
and on the [MOODLE](#) platform



INTERNATIONAL OPPORTUNITIES (1)

- **Double Degree with MSc Economics - European Economic Integration” (Trier University)**
 - 2 years of study (four terms) = 120 CFU
 - 1st year at Bergamo University EDA, *curricula ED + DS*: 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.
- Requirements: at least 12 CFU at the moment of submitting the application and 60CFU before September 2022. Applications by the end of April.
- Selection based on number of CFU, the average of the marks, CV, motivation letter and interview.

For further information:

[Web page EDA: Opportunities --> Double Degree](#)

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INTERNATIONAL OPPORTUNITIES (2)

- **Erasmus scholarship**
- **Erasmus program:** 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)

For further information:

[web page Università di Bergamo: Global --> Erasmus +](#)

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OPPORTUNITIES: 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.
- **Curricular** internships and **extra-curricular** internships
- **Private Sector**: UBI Banca, inTwig, GEFTRAN spa, Compass Lexicon, ...
- **Public Sector**: ISTAT, Istituto per la Ricerca Sociale (IRS), ...

For further information:

[web page EDA: "Opportunities" --> Internship](#)

Prof. **Daide Scotti**

Internship coordinator

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LEARNING ACTIVITIES (1)

The “*Fly Higher*” program develops competencies, via educational activities inside and outside the classroom, that promote **extra-skills** and **soft-skills**, for a selected number of students.

For the a.y. 2021-22

- Towards the SAS Certification – 1 CFU
- Advanced Report writing ENG - 2CFU
- Public speaking ENG - 1CFU
- Hackathon - 2CFU
- Entrepreneurial skills – 1CFU
- Worklab: European CV, presentation letters, job market interview -1 CFU

For further information:

[Web page EDA: "Studying" --> Learning Activities](#)



LEARNING ACTIVITIES (2)

- **Summer School in Applied Health Econometrics and Health Policy**
 - 3 CFU
 - July, 15-23th, 2022
 - 4 scholarships for the EDA students
- **Seminars** offered by the Department given by scholars with international standings
- **Workshops:** e.g.
 - Workshop on Advances in Industrial Organization
 - UniBg Experimental Microeconomics Summer Workshop



CONTACTS

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Office hours exclusively dedicated to EDA students once per month - (see the Moodle page of EDA course)

GIADA BARZAGHI

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Follow the Department of Economics (**DSE**) and **EDA** on the **social networks**:



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