

Laurea Magistrale in *Data Science for Economics, Business and Finance – EM31*
A.A. 2025-2026

**Interclasse LM-56 R – Scienze dell'Economia e LM-91 R – Tecniche e Metodi
per la Società dell'Informazione**

Curriculum: Data Science and Business Analytics

Disciplina	Attività Formativa LM-56 R	Attività Formativa LM-91 R	SSD	CFU	Sem	Ore
I YEAR – A.Y. 2025-2026						
Computational statistics and quantitative methods (1 st and 2 nd module) (ENG)	B	B	SECS-S/03	12	I	88
Fundamentals of information systems (1 st and 2 nd module) (ENG)	C	B	ING-INF/05	12	I	88
International and comparative labor law, artificial intelligence and data protection (ENG)	B	B	IUS/07	6	II	44
Big Data Econometrics (1 st and 2 nd module) (ENG)	B	C	SECS-P/05	9	II	66
Statistics for Big Data (ENG)	B	C	SECS-S/01	6	II	44
Misurazione delle performance e business analytics (ITA)	B	B	SECS-P/07	6	I	44
Economics of ICT (ENG)	B	B	SECS-P/01	6	II	44
Total credits I year				57		
II YEAR – A.Y. 2026-2027						
Information systems for big data analytics (1 st and 2 nd module) (ENG, ITA)	C	B	ING-INF/05	12		88
Data analysis for business decisions (1 st and 2 nd module) (ENG)	B	B	SECS-P/06	9		66
Web marketing (ENG)	B	B	SECS-P/08	6		44
Business startup (ENG)	B	B	SECS-P/02	9		66
3 credits to be chosen between: Advanced English (C1 Test) or (C1 International Certification) or AI applications Lab (ENG)*	F	F	=	3		22
9 free-choice credits (electives): Laboratorio Big Data Analytics (ITA)	D	D	ING-INF/05	6		44
Financial econometrics (ENG)			SECS-P/05	6		44
Finance analytics for pricing and risk reduction (ENG)			=	6		44
AI applications Lab (ENG)***			=	3		22
Computational economics (ENG)			SECS-P/02	6		44
International banking and financial institutions (ENG)			SECS-P/11	6		44
History of banking and finance (ENG)			SECS-P/12	6		44
Financial economics and risk management (ENG)**			SECS-P/01	6		44
Macroeconomics for professionals (ENG)			SECS-P/02	6		44
Analysis and evaluation of public policy (ENG)			SECS-P/01	6		44
Sociologia dei sistemi organizzativi (1° modulo) (ITA)			SPS/09	6		44
Project management e supporto alle decisioni (ITA)****			ING-INF/05	9		66
New generation databases (ITA)****			ING-INF/05	9		66
Computer vision e deep learning (ITA)****			ING-INF/05	9		66
Internship			-	6-9		
Thesis	E	E		15		
Total credits II Year				63		

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Curriculum: Data Science for Finance and Economics

Disciplina	Attività Formativa LM-56 R	Attività Formativa LM-91 R	SSD	CFU	Sem	Ore
I YEAR – A.Y. 2025-2026						
Computational statistics and quantitative methods (1 st and 2 nd module) (ENG)	B	B	SECS-S/03	12	I	88
Fundamentals of information systems (1 st and 2 nd module) (ENG)	C	B	ING-INF/05	12	I	88
International and comparative labor law, artificial intelligence and data protection (ENG)	B	B	IUS/07	6	II	44
Big Data Econometrics (1 st and 2 nd module) (ENG)	B	C	SECS-P/05	9	II	66
Statistics for Big Data (ENG)	B	C	SECS-S/01	6	II	44
Operation and Project Management (1 st module) (ENG)	B	B	SECS-P/08	6	I	44
Financial economics and risk management (ENG)**	B	B	SECS-P/01	6	II	44
Total credits I year				57		
II YEAR – A.Y. 2026-2027						
Information systems for data analytics (1 st and 2 nd module) (ENG)	C	B	ING-INF/05	12		88
Data analysis for business decisions (1 st module) (ENG)	B	B	SECS-P/06	6		44
Computational economics and financial econometrics (1 st and 2 nd module) (ENG)	B	B	SECS-P/02	12		88
Web marketing (ENG)	B	B	SECS-P/08	6		44
3 credits to be chosen between: Advanced English (C1 Test) or (C1 International Certification) or AI applications Lab (ENG)*	F	F	=	3		22
9 free-choice credits (electives):						
International banking and financial institutions (ENG)			SECS-P/11	6		44
Finance analytics for pricing and risk reduction (ENG)			=	6		44
Laboratorio Big Data Analytics (ITA)			ING-INF/05	6		44
AI applications Lab (ENG)***			=	3		22
Information systems for big data analytics (2 nd module) (ITA)			ING-INF/05	6		44
Data analysis for business decisions (2 nd module) (ENG)			SECS-P/06	3		22
History of banking and finance (ENG)			SECS-P/12	6		44
Economics of ICT (ENG)			SECS-P/01	6		44
Misurazione delle performance e business analytics (ITA)	D	D	SECS-P/07	6		44
Macroeconomics for professionals (ENG)			SECS-P/02	6		44
Analysis and evaluation of public policy (ENG)			SECS-P/01	6		44
Business startup (ENG)			SECS-P/02	9		66
Sociologia dei sistemi organizzativi (1° modulo) (ITA)			SPS/09	6		44
Project management e supporto alle decisioni (ITA)****			ING-INF/05	9		66
New generation databases (ITA)****			ING-INF/05	9		66
Computer vision e deep learning (ITA)****			ING-INF/05	9		66
Internship			-	6-9		
Thesis	E	E		15		
Total credits II Year				63		

* Students who enroll with a B2 English level must include "Advanced English" in their study plan, choosing either the C1 Test or a C1 International Certification. Students who enroll with a C1 English level, achieved during their bachelor's degree (e.g., DEB students), must include either a C1 International Certification or the "AI applications Lab" in their study plan. Students who hold a C1 International Certification and have not used it to earn English credits in their bachelor's degree may use the certification for these credits or include the "AI applications Lab" in their study plan. Students who have already used the C1 International Certification to obtain English credits must include the "AI applications Lab" in their study plan. CSAL offers free preparatory courses for both the C1 Test and the C1 International Certification. The C1 Test is also administered by CSAL.

** Students who have "Financial economics and risk management" in their study plan cannot include "Financial economics" in their study plan.

*** If not already in the study plan.

**** Courses of the master degree in "Ingegneria Informatica e dell'Automazione – LM-32 R".