

**Laurea Magistrale in *Data Science for Economics, Business and Finance***  
**Interclasse LM-56 R - Scienze dell'Economia e LM-91 R - Tecniche e Metodi**  
**per la Società Digitale**

**Curriculum: Data Science and Business Analytics**

Disciplina	Attività Formativa LM-56 R	Attività Formativa LM-91 R	SSD	CFU	Sem.
<b>I YEAR - A.Y. 2025-2026</b>					
Computational statistics and quantitative methods (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	B	B	SECS-S/03	12	I
Fundamentals of information systems (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	C	B	ING-INF/05	12	I
International and comparative labor law, artificial intelligence and data protection (ENG)	B	B	IUS/07	6	II
Big Data Econometrics (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	B	C	SECS-P/05	9	II
Statistics for Big Data (ENG)	B	C	SECS-S/01	6	II
Misurazione delle performance e business analytics (ITA)	B	B	SECS-P/07	6	I
Economics of ICT (ENG)	B	B	SECS-P/01	6	II
Advanced English (C1 Test or C1 International Certification) or AI applications Lab (ENG)*	F	F		3	=
<b>Total credits I year</b>				<b>60</b>	
<b>II YEAR - A.Y. 2026-2027</b>					
Information systems for data analytics (1 <sup>st</sup> module) (ENG)	C	B	ING-INF/05	9	
Big Data Analytics (ITA)	C	B	ING-INF/05	6	
Data analysis for business decisions (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	B	B	SECS-P/06	9	
Web marketing (ENG)	B	B	SECS-P/08	6	
Laboratorio Big Data Analytics (ITA)	F	F	ING-INF/05	6	
<b>9 free-choice credits (electives):</b>					
Financial econometrics (ENG)			SECS-P/05	6	
Finance analytics for pricing and risk reduction (ENG)				6	
AI applications Lab (ENG)***				3	
Computational economics and finance (ENG)**			SECS-P/02	6	
International banking and financial institutions (ENG)			SECS-P/11	6	
History of banking and finance (ENG)			SECS-P/12	6	
Financial economics and risk management (ENG)**			SECS-P/01	6	
Macroeconomics for professionals (ENG)	D	D	SECS-P/02	6	
Economics of innovation (ENG)			SECS-P/06	6	
Analysis and evaluation of public policies (ENG)			SECS-P/01	6	
Business startup (ENG)			SECS-P/02	9	
Sociologia dei sistemi organizzativi (1 <sup>st</sup> module) (ITA)			SPS/09	6	
Project management e supporto alle decisioni (ITA)****			ING-INF/05	9	
New generation databases (ITA)****			ING-INF/05	9	
Computer vision e deep learning (ITA)****			ING-INF/05	9	
Stage/Internship			-	6-9	
<b>Thesis</b>	E	E		<b>15</b>	
<b>Total credits II Year</b>				<b>60</b>	

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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.
<b>I YEAR – A.Y. 2025-2026</b>					
Computational statistics and quantitative methods (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	B	B	SECS-S/03	12	I
Fundamentals of information systems (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	C	B	ING-INF/05	12	I
International and comparative labor law, artificial intelligence and data protection (ENG)	B	B	IUS/07	6	II
Big Data Econometrics (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	B	C	SECS-P/05	9	II
Statistics for Big Data (ENG)	B	C	SECS-S/01	6	II
International banking and financial institutions (ENG)	B	C	SECS-P/11	6	II
Financial economics and risk management (ENG)**	B	B	SECS-P/01	6	II
Advanced English (C1 Test or C1 International Certification) or AI applications Lab (ENG)*	F	F		3	
<b>Total credits I year</b>				<b>60</b>	
<b>II YEAR – A.Y. 2026-2027</b>					
Information systems for data analytics (1 <sup>st</sup> and 2 <sup>nd</sup> module) (ENG)	C	B	ING-INF/05	12	
Computational economics and finance (ENG)**	B	B	SECS-P/02	6	
Data analysis for business decisions (1 <sup>st</sup> module) (ENG)	B	B	SECS-P/06	6	
Financial econometrics (ENG)	B	C	SECS-P/05	6	
Web marketing (ENG)	B	B	SECS-P/08	6	
<b>9 free-choice credits (electives):</b>	D	D			
Finance analytics for pricing and risk reduction (ENG)				6	
Laboratorio Big Data Analytics (ITA)			ING-INF/05	6	
AI applications Lab (ENG)***				3	
Data analysis for business decisions (2 <sup>nd</sup> module) (ENG)			SECS-P/06	3	
History of banking and finance (ENG)			SECS-P/12	6	
Economics of ICT (ENG)			SECS-P/01	6	
Misurazione delle performance e business analytics (ITA)			SECS-P/07	6	
Macroeconomics for professionals (ENG)			SECS-P/02	6	
Economics of innovation (ENG)			SECS-P/06	6	
Analysis and evaluation of public policies (ENG)			SECS-P/01	6	
Business startup (ENG)			SECS-P/02	9	
Big Data Analytics (ITA)			ING-INF/05	6	
Sociologia dei sistemi organizzativi (1 <sup>st</sup> module) (ITA)			SPS/09	6	
Project management e supporto alle decisioni (ITA)****			ING-INF/05	9	
New generation databases (ITA)****			ING-INF/05	9	
Computer vision e deep learning (ITA)****			ING-INF/05	9	
Stage/Internship			-	6-9	
<b>Thesis</b>	E	E		15	
<b>Total credits II Year</b>				<b>60</b>	

\* 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 "Economic principles of finance" in their study plan. Students who have "Computational economics and finance" in their study plan cannot include "Computational 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"