



Manifesto degli studi e organizzazione didattica

EM31

CdS Data Science for Economics, Business and Finance

DSEBF

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

Sede Ancona

[Offerta formativa Facoltà di Economia "Giorgio Fuà"](#)

Programmi degli insegnamenti

[Syllabus del corso di studio](#)

Curriculum: Data Science and Business Analytics

Dsba

Anno di corso: 1 - attivato nell'A.A. 2025-2026

Nuovi SSD	SSD	Insegnamento	TAF LM-56 R	TAF LM-91 R	CFU	ORE
Obbligatori						
	SECS-S/03	Computational statistics and quantitative methods (1st and 2nd module) (ENG)	B	B	12	88
	ING-INF/05	Fundamentals of information systems (1st and 2nd module) (ENG)	C	B	12	88
	IUS/07	International and comparative labor law, artificial intelligence and data protection (ENG)	B	B	6	44
	SECS-P/05	Big Data Econometrics (1st and 2nd module) (ENG)	B	C	9	66
	SECS-S/01	Statistics for Big Data (ENG)	B	C	6	44
	SECS-P/07	Misurazione delle performance e business analytics (ITA)	B	B	6	44
	SECS-P/01	Economics of ICT (ENG)	B	B	6	44
Anno: 1 - Totale CFU					57	

Anno di corso: 2 - A.A. 2026-2027 / YEAR: 2 - A.Y. 2026-2027

Nuovi SSD	SSD	Insegnamento	TAF LM-56 R	TAF LM-91 R	CFU	ORE	SEM (ciclo)
Obbligatori							
	integrato	Information systems for big data analytics (1st and 2nd module) (ENG, ITA)			12	88	
IINF-05/A	ING-INF/05	(1st module) (ENG)	C	B	6	44	I
IINF-05/A	ING-INF/05	(2nd module) (ITA)	C	B	6	44	I
ECON-04/A	SECS-P/06	Data analysis for business decisions (1st and 2nd module) (ENG)	B	B	9	66	II
ECON-07/A	SECS-P/08	Web marketing (ENG)	B	B	6	44	I
ECON-02/A	SECS-P/02	Business startup (ENG)	B	B	9	66	I
3 credits to be chosen between:							
	=	Advanced English (C1 Test) / (C1 International Certification)	F	F	3	22	I
	or	AI applications Lab (ENG)*	F	F	3	22	II
9 free-choice credits (electives):							
IINF-05/A	ING-INF/05	Laboratorio Big Data Analytics (ITA)	D	D	6	44	II
ECON-05/A	SECS-P/05	Financial econometrics (ENG)	D	D	6	44	I
	=	Finance analytics for pricing and risk reduction (ENG)	D	D	6	44	II
	=	AI applications Lab (ENG) (***)	D	D	3	22	II
ECON-02/A	SECS-P/02	Computational economics (ENG)	D	D	6	44	I
ECON-09/B	SECS-P/11	International banking and financial institutions (ENG)	D	D	6	44	II
STEC-01/B	SECS-P/12	History of banking and finance (ENG)	D	D	6	44	II
ECON-01/A	SECS-P/01	Financial economics and risk management (ENG) (**)	D	D	6	44	II
ECON-02/A	SECS-P/02	Macroeconomics for professionals (ENG)	D	D	6	44	II
ECON-01/A	SECS-P/01	Analysis and evaluation of public policy (ENG)	D	D	6	44	II
GSPS-08/A	SPS/09	Sociologia dei sistemi organizzativi (1° modulo) (ITA)	D	D	6	44	II
IINF-05/A	ING-INF/05	Project management e supporto alle decisioni (ITA) (****)	D	D	9	66	I
IINF-05/A	ING-INF/05	New generation databases (ITA) (****)	D	D	9	66	II
IINF-05/A	ING-INF/05	Computer vision e deep learning (ITA) (****)	D	D	9	66	II
	Internship		D	D	6-9	150-225	II

Thesis	E	E	15
	Anno: 2 - Totale CFU		63
	TOTALE CFU 2 ANNI		120

(*)

Students who enroll with a B2 English level must include "Advanced English" in their study plan, and either must pass the C1 Test administered by CSAL or earn 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 the free preparatory course for both the C1 Test and the C1 International Certification.

(**) 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".



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Curriculum: Data Science for Finance and Economics

Dsfe

Anno di corso: 1 - attivato nell'A.A. 2025-2026

Nuovi SSD	SSD	Insegnamento	TAF LM-56 R	TAF LM-91 R	CFU	ORE	
Obbligatori							
	SECS-5/03	Computational statistics and quantitative methods (1st and 2nd module) (ENG)	B	B	12	88	
	ING-INF/05	Fundamentals of information systems (1st and 2nd module) (ENG)	C	B	12	88	
	IUS/07	International and comparative labor law, artificial intelligence and data protection	B	B	6	44	
	SECS-P/05	Big Data Econometrics (1st and 2nd module) (ENG)	B	C	9	66	
	SECS-S/01	Statistics for Big Data (ENG)	B	C	6	44	
	SECS-P/08	Operation and Project Management (1st module) (ENG)	B	B	6	44	
	SECS-P/01	Financial economics and risk management (ENG) (**)	B	B	6	44	
Anno: 1 - Totale CFU					57		

Anno di corso: 2 - A.A. 2026-2027 / YEAR: 2 - A.Y. 2026-2027

Nuovi SSD	SSD	Insegnamento	TAF LM-56 R	TAF LM-91 R	CFU	ORE	SEM (ciclo)
Obbligatori							
IINF-05/A	ING-INF/05	Information systems for data analytics (1st and 2nd module) (ENG)	C	B	12	88	I
ECON-04/A	SECS-P/06	Data analysis for business decisions (1st module) (ENG)	B	B	6	44	II
ECON-02/A	SECS-P/02	Computational economics and financial econometrics (1st and 2nd module) (ENG)	B	B	12	88	I
ECON-07/A	SECS-P/08	Web marketing (ENG)	B	B	6	44	I
3 credits to be chosen between:							
=		Advanced English (C1 Test) / (C1 International Certification)	F	F	3	22	I
or							
		AI applications Lab (ENG) (*)	F	F	3	22	II
9 free-choice credits (electives):							
ECON-09/B	SECS-P/11	International banking and financial institutions (ENG)	D	D	6	44	II
=		Finance analytics for pricing and risk reduction (ENG)	D	D	6	44	II
IINF-05/A	ING-INF/05	Laboratorio Big Data Analytics (ITA)	D	D	6	44	II
=		AI applications Lab (ENG) (***)	D	D	3	22	II
IINF-05/A	ING-INF/05	Information systems for big data analytics (2nd module) (ITA)	D	D	6	44	I
ECON-04/A	SECS-P/06	Data analysis for business decisions (2nd module) (ENG)	D	D	3	22	II
STEC-01/B	SECS-P/12	History of banking and finance (ENG)	D	D	6	44	II
ECON-01/A	SECS-P/01	Economics of ICT (ENG)	D	D	6	44	II
ECON-06/A	SECS-P/07	Misurazione delle performance e business analytics (ITA)	D	D	6	44	I
ECON-02/A	SECS-P/02	Macroeconomics for professionals (ENG)	D	D	6	44	II
ECON-01/A	SECS-P/01	Analysis and evaluation of public policy (ENG)	D	D	6	44	II
ECON-02/A	SECS-P/02	Business startup (ENG)	D	D	9	66	I
GSPS-08/A	SPS/09	Sociologia dei sistemi organizzativi (1° modulo) (ITA)	D	D	6	44	II
IINF-05/A	ING-INF/05	Project management e supporto alle decisioni (ITA) (****)	D	D	9	66	I
IINF-05/A	ING-INF/05	New generation databases (ITA) (****)	D	D	9	66	II
IINF-05/A	ING-INF/05	Computer vision e deep learning (ITA) (****)	D	D	9	66	II
Internship							
		Thesis	E	E	6-9	150-225	II

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