



A.A. 2026-2027

Manifesto degli studi e organizzazione didattica

EM33

CdS Data Science for Economics, Business and Finance

DSEBF

Classe LM Data - Data Science

Sede Ancona

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

Programmi degli insegnamenti [Syllabus del corso di studio](#)

Curriculum: Data Science and Business Analytics

Dsba

650

Anno di corso: 1 - A.A. 2026-2027 / YEAR: 1 - A.Y. 2026-2027

Nuovi SSD	SSD	Insegnamento	TAF	CFU	ORE	SEM (ciclo)
Obbligatoria						
	integrato	Computational statistics and quantitative methods (1st and 2nd module) (ENG)		12	88	
STAT-02/A	SECS-S/03	(1st module)	B	9	66	I
STAT-01/A	SECS-S/01	(2nd module)	B	3	22	I
IINF-05/A	ING-INF/05	Fundamentals of information systems (1st and 2nd module) (ENG)	B	12	88	I
GIUR-04/A	IUS/07	International and comparative labor law, artificial intelligence and data protection (ENG)	C	6	44	II
	integrato	Big Data Econometrics (1st and 2nd module) (ENG)		9	66	
ECON-05/A	SECS-P/05	(1st module) (ENG)	B	6	44	II
ECON-05/A	SECS-P/05	(2nd module) (ENG)	B	3	22	II
STAT-01/A	SECS-S/01	Statistics for Big Data (ENG)	B	6	44	II
ECON-06/A	SECS-P/07	Misurazione delle performance e business analytics (ITA)	B	6	44	I
ECON-04/A	SECS-P/06	Economics of ICT (ENG)	C	6	44	II
				Anno: 1 - Totale CFU	57	

Anno di corso: 2 - attivato dall'A.A. 2027-2028 / YEAR: 2 - A.Y. 2027-2028

Nuovi SSD	SSD	Insegnamento	TAF	CFU	ORE	
Obbligatoria						
IINF-05/A	ING-INF/05	Information systems for data analytics (1st and 2nd module) (ENG)	B	9	66	
IINF-05/A	ING-INF/05	Big Data Analytics (ITA)	B	6	44	
ECON-04/A	SECS-P/06	Data analysis for business decisions (1st and 2nd module) (ENG)	C	9	66	
ECON-07/A	SECS-P/08	Web marketing (ENG)	B	6	44	
IINF-05/A	ING-INF/05	Laboratorio Big Data Analytics (ITA)	F	6	44	
3 credits to be chosen between:						
		Advanced English (C1) (*) or	F	3	22	
		AI applications Lab (ENG)	F	3	22	
9 free-choice credits (electives) to be added by to the study plan in the academic year they are actually offered (**)						
		Thesis	E	15		
				Anno: 2 - Totale CFU	63	
				TOTALE CFU 2 ANNI	120	

Elective courses must be chosen in the year they are offered (2nd year - A.Y. 2027-2028). For reference, the following electives are available for the 2026-2027 academic year:

New SSD	SSD	Course	TAF	CFU	HOURS
ECON-02/A	SECS-P/02	Business startup (ENG)	D	9	66
ECON-05/A	SECS-P/05	Financial econometrics (ENG)	D	6	44
=		Finance analytics for pricing and risk reduction (ENG)	D	6	44

=		AI applications Lab (ENG) (***)	D	3	22
ECON-02/A	SECS-P/02	Computational economics (ENG)	D	6	44
ECON-09/B	SECS-P/11	International banking and financial institutions (ENG)	D	6	44
STEC-01/B	SECS-P/12	History of banking and finance (ENG)	D	6	44
ECON-01/A	SECS-P/01	Financial economics and risk management (ENG) (**)	D	6	44
ECON-02/A	SECS-P/02	Macroeconomics for professionals (ENG)	D	6	44
ECON-01/A	SECS-P/01	Analysis and evaluation of public policy (ENG)	D	6	44
GSPS-08/A	SPS/09	Sociologia dei sistemi organizzativi (1° modulo) (ITA)	D	6	44
IINF-05/A	ING-INF/05	Project management e business intelligence (ITA) (****)	D	9	66
IINF-05/A	ING-INF/05	New generation databases (ITA) (****)	D	9	66
IINF-05/A	ING-INF/05	Computer vision e deep learning (ITA) (****)	D	9	66
		Internship	D	6-9	150-225

(*)

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. Students who have "Computational economics and financial econometrics (1st and 2nd module)" in their study plan cannot include "Computational economics" and "Financial econometrics" 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

651

Anno di corso: 1 - A.A. 2026-2027 / YEAR: 1 - A.Y. 2026-2027

Nuovi SSD	SSD	Insegnamento	TAF	CFU	ORE	SEM (ciclo)
Obbligatori						
	integrato	Computational statistics and quantitative methods (1st and 2nd module) (ENG)		12	88	
STAT-02/A	SECS-S/03	(1st module)	B	9	66	I
STAT-01/A	SECS-S/01	(2nd module)	B	3	22	I
IINF-05/A	ING-INF/05	Fundamentals of information systems (1st and 2nd module) (ENG)	B	12	88	I
GIUR-04/A	IUS/07	International and comparative labor law, artificial intelligence and data protection (ENG)	C	6	44	II
	integrato	Big Data Econometrics (1st and 2nd module) (ENG)		9	66	
ECON-05/A	SECS-P/05	(1st module) (ENG)	B	6	44	II
ECON-05/A	SECS-P/05	(2nd module) (ENG)	B	3	22	II
STAT-01/A	SECS-S/01	Statistics for Big Data (ENG)	B	6	44	II
ECON-09/B	SECS-P/11	International banking and financial institutions (ENG)	C	6	44	II
ECON-01/A	SECS-P/01	Financial economics and risk management (ENG) (**)	C	6	44	II
Anno: 1 - Totale CFU				57		

Anno di corso: 2 - attivato dall'A.A. 2027-2028 / YEAR: 2 - A.Y. 2027-2028

Nuovi SSD	SSD	Insegnamento	TAF	CFU	ORE	
Obbligatori						
IINF-05/A	ING-INF/05	Information systems for data analytics (1st and 2nd module) (ENG)	B	9	66	
ECON-04/A	SECS-P/06	Data analysis for business decisions (1st and 2nd module) (ENG)	C	9	66	
ECON-05/A	SECS-P/05	Financial econometrics	B	6	44	
ECON-07/A	SECS-P/08	Web marketing (ENG)	B	6	44	
ECON-02/A	SECS-P/02	Computational economics (ENG)	F	6	44	
3 credits to be chosen between:						
		Advanced English (C1) (*) or	F	3	22	
		AI applications Lab (ENG)	F	3	22	
9 free-choice credits (electives) to be added by to the study plan in the academic year they are actually offered (**)						
		Thesis	E	15		
Anno: 2 - Totale CFU				63		
TOTALE CFU 2 ANNI				120		

Elective courses must be chosen in the year they are offered (2nd year - A.Y. 2027-2028). For reference, the following electives are available for the 2026-2027 academic year:

New SSD	SSD	Course	TAF	CFU	HOURS
=		Finance analytics for pricing and risk reduction (ENG)	D	6	44
IINF-05/A	ING-INF/05	Laboratorio Big Data Analytics (ITA)	D	6	44
=		AI applications Lab (ENG) (***)	D	3	22

IINF-05/A	ING-INF/05	Big Data Analytics (ITA)	D	6	44
STEC-01/B	SECS-P/12	History of banking and finance (ENG)	D	6	44
ECON-04/A	SECS-P/06	Economics of ICT (ENG)	D	6	44
ECON-06/A	SECS-P/07	Misurazione delle performance e business analytics (ITA)	D	6	44
ECON-02/A	SECS-P/02	Macroeconomics for professionals (ENG)	D	6	44
ECON-01/A	SECS-P/01	Analysis and evaluation of public policy (ENG)	D	6	44
ECON-02/A	SECS-P/02	Business startup (ENG)	D	9	66
GSPS-08/A	SPS/09	Sociologia dei sistemi organizzativi (1° modulo) (ITA)	D	6	44
IINF-05/A	ING-INF/05	Project management e business intelligence (ITA) (***)	D	9	66
IINF-05/A	ING-INF/05	New generation databases (ITA) (****)	D	9	66
IINF-05/A	ING-INF/05	Computer vision e deep learning (ITA) (****)	D	9	66
Internship (***)			D	6-9	150-225

(*)

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.

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(***) If not already in the study plan.

Only one internship (6 or 9 credits) may be added to the study plan.

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