

**Master in Data Analytics for Economics and Management (LM-Data)**  
**Study plan for students enrolled starting from the a.y. 2023/2024**

Degree year	Exam code Codice esame Prüfungskodex	Subject Materia Fach	Teaching module Modulo d'insegnamento Lehrmodul	SDS SSD WDB	Type of didactic activity Tipologia attività formativa Art der Lehrveranstaltung	Disciplinary area Ambito disciplinare Fachbereich	CP CFU KP
<b>Mandatory exams for both Curricula - 1st study year</b>							
1	27500	Programming and Visualisation for Data Science	M1 - Introduction to programming for data science (6/12 CP)	INF/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione informatica e dell'informazione Ausbildung im Bereich Informatik und Information	12
			M2 – Data visualization and exploration (6/12 CP)	INF/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione informatica e dell'informazione Ausbildung im Bereich Informatik und Information	
1	27501	Econometrics for data science	M1 - Time Series Analysis and Forecasting (6/12 CP)	SECS-P/05	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	12
			M2 – Management of economic and business data (6/12 CP)	SECS-P/05	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
1	27502	Statistical Methods	M1 - Statistical methods for business analysis (6/12 CP)	SECS-S/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione matematico-statistica Mathematisch-statistische Ausbildung	12
			M2 - Advanced statistics (6/12 CP)	SECS-S/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione matematico-statistica Mathematisch-statistische Ausbildung	
1	27503	Machine Learning	/	INF/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione informatica e dell'informazione Ausbildung im Bereich Informatik und Information	6
<b>only Curriculum "Data Analytics for Economics"</b>							
<b>Mandatory optional courses - 1st study year (the student must earn 12 CP by choosing two exams from the following list)</b>							
1	27504	Financial mathematics (6 CP)	/	SECS-S/06	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	12
1	27505	Financial econometrics (6 CP)	/	SECS-P/05	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
1	27506	Economic Policy (6 CP)	/	SECS-P/02	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
1	27507	Methods for Public Policies Evaluation (6 CP)	/	SECS-P/03	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
<b>only Curriculum "Business Analytics"</b>							
<b>Mandatory optional courses - 1st study year (the student must earn 12 CP by choosing two exams from the following list)</b>							
1	27508	Network thinking and agent-based modeling (6 CP)	/	SECS-P/08	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	12
1	27509	Marketing B2B and sales management (6 CP)	/	SECS-P/08	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
1	27510	Experiential Tourism Marketing (6 CP)	/	SECS-P/08	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	

## Mandatory exams for both Curricula - 2nd study year

2	27511	Optimization methods for decision making	Optimization methods for economics and business (6/12 CP)	MAT/06	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione matematico-statistica Mathematisch-statistische Ausbildung	12
			Data science applications for resource optimization, risk evaluation and sustainability (6/12 CP)	SECS-S/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione matematico-statistica Mathematisch-statistische Ausbildung	
2	27512	Big data methods for economics and business	Statistical methods for high-dimensional data (6/12 CP)	SECS-S/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione matematico-statistica Mathematisch-statistische Ausbildung	12
			Natural language processing and web analytics (6/12 CP)	INF/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione informatica e dell'informazione Ausbildung im Bereich Informatik und Information	
2	27513	Cybersecurity and digital privacy	/	IUS/01	Typical subject caratterizzante fachtypische Lehrveranstaltung	Formazione giuridico, aziendale, linguistica e sociale Juristische, betriebswirtschaftliche, sprachliche und soziale Ausbildung	6
2		Free choice courses	/	/	/		12
2	27019	Internship	/	/	Internship Tirocini formativi e di orientamento Praktika	/	6
/	/	Final exam	/	/	Final Exam	/	12

### only Curriculum "Data Analytics for Economics"

Mandatory optional courses - 2nd study year (the student must earn 6 CP by choosing one exam from the following list)

2	27514	Financial engineering and quantitative investment strategies (6 CP)	/	SECS-S/06	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	6
2	27515	Applied resource and energy economics (6 CP) ***	/	SECS-P/05	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
2	27516	Sustainability Economics (6 CP) ***	/	SECS-P/05	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	

### only Curriculum "Business Analytics"

Mandatory optional courses - 2nd study year (the student must earn 6 CP by choosing one exam from the following list)

2	27517	Digital marketing methods and consumer experience (6 CP)	/	INF/01	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	6
2	27518	Performance analytics for business (6 CP)***	/	SECS-P/07	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	
2	27519	Introduction to Block Chain (6 CP)***	/	SECS-P/07	complementary subject attività formativa affine o integrativa benachbarte oder zusätzliche Lehrveranstaltung	/	

\*\*\* the two courses will be offered in alternate years

<b>Total CP for graduation</b>	<b>120</b>
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