

Economics, Statistics and Data Science

course	SSD	Type of activity	language	hrs	credits	year of attendance	final test	optional/mandatory	curriculum
STATISTICA COMPUTAZIONALE I / COMPUTATIONAL STATISTICS I	SECS-S/01	lesson	English	16	2	1 st	YES	mandatory	Economics
MATEMATICA / MATHEMATICS	SECS-S/06	lesson	English	56	7	1 st	YES	mandatory	Economics
ANALISI MATEMATICA / MATHEMATICAL ANALYSIS	MAT/01	lesson	English	40	5	1 st	YES	mandatory	Statistics
PROGRAMMAZIONE IN PYTHON / PROGRAMMING IN PYTHON	INF/01	lesson	English	16	2	1 st	YES	mandatory	Big Data & Analytics for Business
ARCHITETTURA PER L'ELABORAZIONE DEI BIG DATA / ARCHITECTURE FOR BIG DATA PROCESSING	INF/01	laboratory	English	24	2	1 st	YES	mandatory	Big Data & Analytics for Business
ECONOMETRIA/ ECONOMETRICS	SECS-P/05	lesson	English	72	9	1 st	YES	mandatory	Economics
MICROECONOMIA	SECS-P/01	lesson	English	96	12	1 st	YES	mandatory	Economics
PROBABILITY I PROBABILITY II	SECS-S/01	lesson	English	32	4	1 st	YES	mandatory	Statistics
PROCESSI STOCASTICI \STOCHASTIC PROCESSES	SECS-S/01	lesson	English	24	3	1 st	YES	mandatory	Statistics
INFERENZA STATISTICA I / STATISTICAL INFERENCE I	SECS-S/01	lesson	English	16	2	1 st	YES	mandatory	Statistics
PROBABILITY	SECS-S/01	lesson	English	16	2	1 st	YES	mandatory	Big Data & Analytics for Business
MACROECONOMIA	SECS-P/01	lesson	English	56	6	1 st	YES	mandatory	Economics
STATISTICA COMPUTAZIONALE II / COMPUTATIONAL STATISTICS II	SECS-P/01	laboratory	English	12	1	1 st	YES	mandatory	Economics (optional Statistics)
METODI PER LA RICERCA / RESEARCH METHODS	SECS-P/01	lesson	English	32	4	1 st	YES	mandatory	Economics
Finanza empirica (Signori)	SECS-P/11 SECS-S/06	lesson	English	16	2	1 st	YES	optional	Economics
Teoria dei prezzi delle attività finanziarie (Sbuelz)	SECS-P/11 SECS-S/06	lesson	English	16	2	1 st	YES	optional	Economics
Finanza III Teoria delle banche	SECS-P/11 SECS-S/06	lesson	English	16	2	1 st	YES	optional	Economics
INFERENZA STATISTICA II - STATISTICAL INFERENCE II	SECS-S/01	lesson	English	32	4	1 st	YES	mandatory	Statistics
INFERENZA STATISTICA I - STATISTICAL INFERENCE I	SECS-S/01	lesson	English	16	2	1 st	YES	mandatory	Big Data & Analytics for Business
INFERENZA STATISTICA II - STATISTICAL INFERENCE II	SECS-S/01	lesson	English	16	2	1 st	YES	mandatory	Big Data & Analytics for Business
BAYESIAN STATISTICS	SECS-S/01	lesson	English	48	6	1 st	YES	mandatory	Statistics
MACHINE LEARNING	INF/01	laboratory	English	12	1	1 st	YES	mandatory	Big Data & Analytics for Business

NATURAL LANGUAGE UNDERSTANDING	INF/01	laboratory	English	12	1	1 st	YES	mandatory	Big Data & Analytics for Business
SOCIAL MEDIA ANALYTICS	INF/01	laboratory	English	12	1	1 st	YES	mandatory	Big Data & Analytics for Business
STATISTICAL LEARNING	SECS-S/01	laboratory	English	24	3	1 st	YES	mandatory	Statistics
STATISTICAL MODELLING I	SECS-S/01	laboratory	English	12	1	1 st	YES	mandatory	Statistics
STATISTICAL MODELLING II	SECS-S/01	laboratory	English	12	1	1 st	YES	mandatory	Statistics
STATISTICAL MODELLING III	SECS-S/01	laboratory	English	12	1	1 st	YES	mandatory	Statistics
STATISTICAL MODELLING IV	SECS-S/01	laboratory	English	12	1	1 st	YES	mandatory	Statistics (mandatory Big Data & Analytics for Business)
EXPLAINABLE AI FOR BUSINESS VALUE	INF/01	laboratory	English	12	1	1 st	YES	mandatory	Big Data & Analytics for Business
DEEP LEARNING AND COMPUTER VISION FOR BUSINESS	INF/01	laboratory	English	12	1	1 st	YES	mandatory	Big Data & Analytics for Business
READING GROUP SU FRIZIONI FINANZIARIE / READING GROUP ON FINANCIAL FRICTIONS	SECS-P/01	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU TEORIA DEI NETWORK SOCIALI / READING GROUP ON SOCIAL NETWORK THEORY	SECS-P/01	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU TEMI DI ECONOMIA INTERNAZIONALE E CRESCITA / READING GROUP ON TOPICS IN INTERNATIONAL ECONOMICS AND GROWTH	SECS-P/01	laboratory	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU ECONOMETRIA DELLA FINANZA / READING GROUP ON FINANCIAL ECONOMETRICS	SECS-P/05	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU ESTIMATED DSGE MODELS / READING GROUP ON ESTIMATED DSGE MODELS	SECS-P/01	laboratory	English	12	1	2 nd	YES	optional	Economics
READING GROUP SU APPLIED MONETARY ECONOMICS / READING GROUP ON APPLIED MONETARY ECONOMICS	SECS-P/01	laboratory	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU INFORMATION DESIGN I: THEORY AND APPLICATIONS	SECS-P/01	laboratory	English	12	1	2 nd	YES	optional	Economics
READING GROUP SU ECONOMIA E POLITICA SANITARIA APPLICATE / READING GROUP ON READING GROUP ON APPLIED HEALTH ECONOMICS AND	SECS-P/01	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP INFORMATION DESIGN II	SECS-P/01	laboratory	English	12	1	2 nd	YES	optional	Economics
READING GROUP SU UTILITÀ ATTESA E TEORIA DELLE DECISIONI / READING GROUP ON EXPECTED UTILITY AND DECISION THEORY	SECS-P/01	laboratory	English	12	1	2 nd	YES	optional	Economics
READING GROUP SU ECONOMIA SPERIMENTALE / READING GROUP ON EXPERIMENTAL ECONOMICS	SECS-P/01	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU TEMI DI POLITICA ECONOMICA E DELLE ISTITUZIONI / READING GROUP ON TOPICS IN POLITICAL ECONOMICS AND POLITICAL INSTITUTIONS	SECS-P/01	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU ECONOMIA POLITICA E PUBBLICA / READING GROUP ON POLITICAL AND PUBLIC ECONOMICS	SECS-P/01	laboratory	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU FAMIGLIE, IMPRESE E LA DINAMICA DELLA DISUGUAGLIANZA DEL REDDITO / READING GROUP ON FAMILIES, FIRMS AND THE DYNAMICS OF INCOME	SECS-P/01	laboratory	English	16	2	2 nd	YES	optional	Economics
READING GROUP ON EMPIRICAL BANKING	SECS-P/11	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU PREZZI DELLE ATTIVITÀ FINANZIARIE E GESTIONE DEL PORTAFOGLIO AVANZATI / READING GROUP ON ADVANCED ASSET PRICING AND PORTFOLIO	SECS-P/01	lesson	English	16	2	2 nd	YES	optional	Economics

READING GROUP SU FINANZA D'IMPRESA AVANZATA / READING GROUP SU ADVANCED CORPORATE FINANCE	SECS-P/11	lesson	English	16	2	2 nd	YES	optional	Economics
READING GROUP SU ACCOUNTING ASPECTS OF MODELLIZZAZIONE STATISTICA / READING GROUP ON SOME ISSUES IN STATISTICAL MODELING	SECS-S/01	laboratory	English	12	1	2 nd	YES	optional	Statistics
READING GROUP ON AUTOMATED MACHINE LEARNING & NEURAL ARCHITECTURAL SEARCH	INF/01	laboratory	English	12	1	2 nd	YES	optional	Statistics
READING GROUP ON DEEP LEARNING	INF/01	laboratory	English	12	1	2 nd	YES	optional	Statistics
READING GROUP SU METODI COMPUTAZIONALI BAYESIANI APPROSSIMATI / READING GROUP ON APPROXIMATE BAYESIAN COMPUTATIONAL METHODS	SECS-S/01	laboratory	English	12	1	2 nd	YES	optional	Statistics
READING GROUP SU DATI SPAZIO-TEMPORALI / READING GROUP ON SPATIO-TEMPORAL DATA	SECS-S/01	laboratory	English	12	1	2 nd	YES	optional	Statistics
READING GROUP SU ELABORAZIONE DEL LINGUAGGIO NATURALE / READING GROUP ON NATURAL LANGUAGE PROCESSING	INF/01	laboratory	English	12	1	2 nd	YES	mandatory	Big Data & Analytics for Business
READING GROUP SU INTELLIGENZA ARTIFICIALE GENERATIVA / READING GROUP ON GENERATIVE AI	INF/01	laboratory	English	12	1	2 nd	YES	mandatory	Big Data & Analytics for Business
RG PROBABILISTIC PREFERENCE LEARNING	SECS-S/01	laboratory	English	12	1	2 nd	YES	optional	Economics
TECHNOLOGY AND INNOVATION MANAGEMENT I.	SECS-P/08	lesson	English	8	1	1 st	YES	mandatory	Big Data & Analytics for Business
TECHNOLOGY AND INNOVATION MANAGEMENT II	SECS-P/08	lesson	English	8	1	1 st	YES	mandatory	Big Data & Analytics for Business
TECHNOLOGY AND INNOVATION MANAGEMENT III	SECS-P/08	lesson	English	8	1	1 st	YES	mandatory	Big Data & Analytics for Business
TECHNOLOGY AND INNOVATION MANAGEMENT IV	SECS-P/08	lesson	English	8	1	1 st	YES	mandatory	Big Data & Analytics for Business
Total hrs/credits				1184	135				