

PIANO DI STUDI

I YEAR 60 CFU

	<i>SSD</i>	<i>COURSE</i>	<i>ETCS</i>
<i>Optional</i>	MAT/05	ANALYSIS CALCULUS FOR DATA SCIENCE	9
	MAT/09 MAT/06	Adv. Operational Research SPATIAL RANDOM PROCESSES	6
<i>Optional</i>	SECS-S/01	STATISTICS FOR DATA SCIENCE	9
	SECS-S/01	TIME SERIES AND SEQUENTIAL DATA ANALYSIS	
	SECS-S/01	BIostatISTICS	
<i>Optional</i>	INF/01 ING_INF/05	MACHINE LEARNING AND AI	12
	MAT/08	NUMERICAL METHODS FOR DATA SCIENCE	9
	ING-INF/05	ELEMENTS OF SOFTWARE ENGINEERING AND INFORMATION SYSTEMS	9
	ING-INF/05	PROGRAMMING FOR DATA SCIENCE	
			60

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CURRICULUM		"DATA SCIENCE FOR SCIENTIFIC APPLICATIONS"	
	<i>SSD</i>	<i>COURSE</i>	<i>ETCS</i>
Elective courses: 2 out of 3 (6 ETCS)			
<i>Optional</i>	SECS-S/01	NETWORK ANALYSIS	12
	MAT/06	MEASUREMENT THEORY	
	SECS-S/01	Statistical and Machine learning methods for information technologies	
	IUS/01	LAW, ETHICS AND PRIVACY IN INFORMATION MANAGEMENT	
Elective courses: 2 out of 5 (6 ETCS)			
<i>Optional</i>	FIS/04	Computational Methods for Physics	12
	FIS/02	Stochastic processes for Physics analysis	
	FIS/02	Quantum computing	
	MAT/08	Numerical Models in Data Processing	8
	BIO/10 - BIO/18	BIOINFORMATICS	
	FREE		8
	Linguistic skills		2
	Seminars/training		2
	Internships/Stage		8
	Thesis	-	10
		60	

**II YEAR
CURRICULUM**

**"DATA SCIENCE FOR OFFICIAL STATISTICS AND
BUSINESS ANALYTICS"**

<i>SSD</i>	<i>COURSE</i>	<i>ETCS</i>
SECS-S/01	NETWORK ANALYSIS	6
SECS-S/01	STATISTICAL AND MACHINE LEARNING METHODS FOR INFORMATION TECHNOLOGIES	6
<i>Optional</i> SECS-P/07	BUSINESS PERFORMANCE ANALYTICS	6
	IUS/01 LAW, ETHICS AND PRIVACY IN INFORMATION MANAGEMENT	
Elective courses: 2 out of 5 (6 ETCS)		
SECS-P/08	DIGITAL MARKETING	12
SECS-S/01	LONGITUDINAL AND MULTI-VIEW DATA ANALYSIS	
ING-INF05	WEB INTELLIGENCE	
SECS-S/05	INDICATORS AND SURVEYS DESIGN FOR OFFICIAL STATISTICS	
SECS-P/01	BEHAVIORAL ECONOMICS	
FREE		8
Linguistic skills		2
Seminars/training		2
Internships/Stage		8
Thesis	-	10
		60
		120