Department of Environmental Sciences, Informatics and Statistics
Master's Degree Programme in Computer Science
Ministerial degree code LM-18 (Computer Science)
Curriculum Data Management and Analytics
enrolled A.Y. 2019/20
RECOMMENDED CAREER PLAN

Year	semester	Exam code	Scientific sector	Subject	credits	Tot credits	Notes
a.y. 2019-20	1	I	CM0470	INF/01	Advanced algorithms and programming methods - MOD. 1 + MOD. 2	12	54	
		I	CM0520	INF/01	Advanced Data Management	6		
		I	CM0469	MAT/09	Calculus and Optimization	6		
		I	CM0471	SECS-S/01	Statistical Inference and Learning	6		
		II	CM0472	INF/01	Artificial Intelligence: Knowledge Representation and Planning + Machine Learning and Pattern Recognition	12		
		II	CM0473	INF/01	Information Retrieval and Web Search	6		
		II	CM0468	INF/01	Cloud Computing and Distributed Systems	6		
a.y. 2019-20 / a.y. 2020-21					**Complete the study plan with**		66	
					choose from 12 to 18 credits among			
	1 or 2	I	CM0524	INF/01	Image and video understanding			
		I	CM0190	INF/01	Bioinformatics			
		I	CM0227	INF/01	High Performance Computing			
		I	CM0482	INF/01	Human Computer Interaction and Information Visualization			
		II	CM0526	INF/01	Geometric and 3D Computer Vision	18		
					choose from 0 to 6 credits among			
	1 or 2	I	CM0474	INF/01	Formal methods for system verification			
		I	CM0493	INF/01	Security 1			
		II	CM0480	INF/01	Cryptography			
		II	CM0481	INF/01	Software performance and scalability			
		II	CM0494	INF/01	Security 2			
		II	CM0476	INF/01	Software Correctness, Security, and Reliability			
					choose 6 credits among			
	1 or 2	I	CM0527	SECS-S/01	Computational Statistics and Simulation	6		
		II	CM0525	INF/01	Cryptography foundation			
		II	CM0477	SECS-S/01	Statistics for Spatio-Temporal Data			
		I	CM0224	MAT/08	Numerical Algorithms			
					choose 12 credits among	12		
	2	II	CM0500	SECS-P/05	Networks in Economics and Social Science			
					Activities not yet chosen including the Software Dependability and Cyber Security curriculum ones			
					Activities offered in the University (subject to Teaching committee authorization)			
a.y. 2021-22	2	II	CM0095	NN	Internship	6		Information: https://www.unive.it/pag/19911/
	2	II	CM0082	PROFIN_S	Final exam	24		
						tot. credits	120	

ATTENTION: elective courses may differ from year to year; students are invited to check the offer annually.

Information are available at page **https://www.unive.it/pag/19976/**