



Università
Ca' Foscari
Venezia

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

Students enrolled in A.Y. 2020/21

RECOMMENDED CAREER PLAN

	Year	Semester	Exam code	Scientific sector	Subject	Credits	Tot credits	Notes		
A.Y. 2020/21	1	I	CM0470	INF/01	Advanced algorithms and programming methods - MOD. 1 + MOD. 2	12	54			
			CM0520	INF/01	Advanced Data Management	6				
			CM0546	SECS-S/01	Applied Probability for Computer Science	6				
			CM0469	MAT/09	Calculus and Optimization	6				
		II	CM0472	ING-INF/05	Artificial Intelligence: Knowledge Representation and Planning	12				
				INF/01	Artificial Intelligence: Machine Learning and Pattern Recognition					
			CM0473	INF/01	Information Retrieval and Web Search	6				
CM0468	INF/01	Cloud Computing and Distributed Systems	6							
A.Y. 2020/21 or 2021/22	1 or 2	Complete the study plan with						36		
		Choose from 12 to 18 credits among								
		I	CM0190	INF/01	Bioinformatics	18			recommended year 2	
			CM0227	INF/01	High Performance Computing				recommended year 2	
			CM0482	INF/01	Human Computer Interaction and Information Visu				recommended year 2	
			CM0524	INF/01	Image and video understanding				recommended year 1	
			CM0526	INF/01	Geometric and 3D Computer Vision				recommended year 2	
		II	Choose from 0 to 6 credits among							
			I	CM0474	INF/01	Formal methods for system verification	18		recommended year 1	
				CM0493	INF/01	Security 1			recommended year 1	
			II	CM0480	INF/01	Cryptography			recommended year 1	
				CM0494	INF/01	Security 2			recommended year 1	
		CM0481		INF/01	Software performance and scalability	recommended year 1				
		CM0476	INF/01	Software Correctness, Security, and Reliability	recommended year 1					
		I	Choose 6 credits among							
CM0527	SECS-S/01		Computational Statistics and Simulation	6	recommended year 1					
CM0471	SECS-S/01		Statistical Inference and Learning		recommended year 2					
CM0525	INF/01	Cryptography foundation	recommended year 1							
I o II	Choose 12 credits among									
	- Activities not yet chosen including the Software Dependability and Cyber Security curriculum ones						12			
	- Activities offered in the University (subject to Teaching committee authorization)									
A.Y. 2021/22	2	II	CM0095	NN	Internship	6	30	Information: https://www.unive.it/pag/19911/		
		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/>