



Università
Ca' Foscari
Venezia

Ca' Foscari University of Venice
Department of Environmental Sciences, Informatics and Statistics

Master of Science in Computer Science and Information Technology

LM-18 (Computer Science)
Curriculum Artificial Intelligence and Data Engineering (AIDE)

Enrolled in A.Y.
2023/2024

CM90
ord. 2022
reg. 2023

RECOMMENDED CAREER PLAN

	Year	Semester	Exam code	Academic discipline	Course	Credits	Tot.	
MANDATORY EXAMS								
a.y. 2023/24	1	I	CM0520	INF/01	Advanced Data Management	6	42	
			CM0469	MAT/09	Calculus and Optimization	6		
			CM0623-1	INF/01	Foundations of Artificial Intelligence and Machine Learning - Foundations of Machine Learning	6		
			CM0623-2	ING-INF/05	Foundations of Artificial Intelligence and Machine Learning - Foundations of Artificial Intelligence	6		
		II	CM0622-1	ING-INF/05	Algorithms and Learning over Massive Data - Learning with Massive Data	6		
			CM0622-2	INF/01	Algorithms and Learning over Massive Data - Algorithms for Massive Data	6		
			CM0473	INF/01	Information Retrieval and Web Search	6		
a.y. 2024/25	2	I	CM0471	SECS-S/01	Statistical Inference and Learning	6	36	
		II	CM0095	NN	Stage	6		
			CM0082	PRO-FIN	Thesis	24		
					ELECTIVE *			
					CORE EXAMS - From 18 to 24 credits among			
	1	II	CM0468	INF/01	Cloud Computing and Distributed Systems	6	24	
	1	II	CM0524	INF/01	Image and Video Understanding	6		
	2	I	CM0624	INF/01	Deep Learning for Natural Language Processing	6		
	2	I	CM0526	ING-INF/05	Geometric and 3D Computer Vision	6		
	2	I	CM0482	INF/01	Human Computer Interaction and Information Visualization	6		
					CORE EXAMS - From 0 to 6 credits among			
	1	I	CM0480	INF/01	Cryptography	6		
	1	I	CM0474	INF/01	Formal Methods for System Verification	6		
	1	I	CM0625	INF/01	System Security	6		
	1	II	CM0481	INF/01	Software Performance and Scalability	6		
	1	II	CM0627	ING-INF/05	Network Security	6		
	1	II	CM0626	ING-INF/05	Software Security	6		
	1	II	CM0628	INF/01	Web Security	6		
					COMPLEMENTARY EXAMS - 6 credits among			
	1	I	CM0546	SECS-S/01	Applied Probability for Computer Science	6	6	
	2	II	CM0190	INF/01	Bioinformatics	6		
	2	II	CM0601	ING-INF/05	Quantum Computation	6		
	2	II	CM0629	SECS-S/01	Time Series Analysis for Computer Science	6		
					CHOISE BASED ON PERSONAL INTEREST: 12 credits among			
1 or 2	I or II				Courses of Computer Science and Information Technology (not chosen before and of other curricula)	12	12	
					Courses provided specifically for the Master course (established annually)			
					Courses of the University's (Master or Degree courses)			
						Tot.	120	

Language

English. The language of activities select as "elective courses based on personal interest" can be different

English language requirement

A minimum B2-level knowledge of English is mandatory for enrolment. Information about recognised certifications and exemption categories at page <https://www.unive.it/pag/16406/>

* Elective courses can be attend in the first year or in the second one. Here's a tip for balancing your workload.