



Università
Ca' Foscari
Venezia

Department of Environmental Sciences, Informatics and Statistics

Bachelor's Degree Programme in Informatics

Ministerial Degree Code L-31 (Computer Science)

Curriculum Data Science

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	CT0435	MAT/02	Linear Algebra	6	60			
			CT0005	INF/01	Computer Architecture - mod. 1	6		One 12 CFU exam with module 2		
			CT0432	MAT/08	Calculus 1	6				
			CT0441	INF/01	Introduction to Programming	6				
			CT0436	MAT/02	Basic Mathematics - introduction course	0		Strongly suggested for students that have mandatory additional credits (OFA). However, it's open and suggested also to students without OFA that are keen to review basic math principles before starting the courses of the Environmental Sciences curriculum		
			CT0434	MAT/02	Discrete Mathematics	6				
			CLA-B2	L-LIN/12	English language qualification at B2 level	3		Evaluation consists of a judgment of suitability. Information: https://www.unive.it/pag/16406/		
		II	CT0005	INF/01	Computer Architecture - mod. 2	6		One 12 CFU exam with module 1		
	CT0433		MAT/08	Calculus 2	6					
	CT0414		L-LIN/12	English language	3	Evaluation consists of a judgment of suitability.				
	CT0442		INF/01	Programming and Laboratory	12					
	CT0371		INF/01	Algorithms And Data Structures – Part 1	6	One 12 CFU exam with module 2				
CT0006	INF/01		Database Systems - Part 1	6	One 12 CFU exam with module 2					
A.Y. 2021/22	2	I	CT0111	SECS-S/01	Probability And Statistics	6	60			
			CT0372	INF/01	Object-Oriented Programming - 1	6		One 12 CFU exam with module 2		
			CT0125	INF/01	Operating Systems - Part 1	6		One 12 CFU exam with module 2		
			CT0371	INF/01	Algorithms And Data Structures – Part 2	6		One 12 CFU exam with module 1		
			CT0006	INF/01	Database Systems - Part 2	6		One 12 CFU exam with module 1		
			CT0427	SECS-S/01	Data Analysis - 6 credits	6				
		II	CT0372	INF/01	Object-Oriented Programming - 2	6		One 12 CFU exam with module 1		
	CT0125		INF/01	Operating Systems - Part 2	6	One 12 CFU exam with module 1				
	CT0374		INF/01	Formal Languages And Computability	6					
	CT0090		INF/01	Software Engineering	6					
	CT0373		INF/01	Computer Networks	6					
	CT0429		SECS-S/01	Predictive Analytics - 6 credits	6					
A.Y. 2022/23	3	I	CT0509	INF/01	Data and web mining - 6 CFU	6	60			
			1 course among							
			CT0178	INF/01	Languages for Web and Networking Applications - 6 credits	6				
			CT0539	INF/01	Security - 6 credits					
			CT0540	INF/01	Social Network Analysis - 6 credits					
			CT0091	INF/01	Human-Computer Interaction					
		CT0611	ING-INF/05	Wireless Networking Fundamentals - 6 credits						
		CT0157	INF/01	System Administration Lab. - 6 credits						
			II	CT0171	INF/01	Project management - 6 credits				
		CT0142		INF/01	Web Applications And Technologies - 6 credits					
		Elective courses: 12 credits to be chosen among								
		- Course's teachings not chosen before								
				I	CT0066	IUS/01		Information Technology Law - 6 credits	12	from curriculum Technologies and Information Science (3 rd year)
					CT0582	MAT/08		Numerical Algorithms - 6 credits		from curriculum Technologies and Information Science (3 rd year)
			II	CT0120	MAT/09	Operations Research		from curriculum Technologies and Information Science (3 rd year)		
		- Teachings of the Minor of the University excluding Minor "Computer and Data Science"						Information: https://www.unive.it/pag/10478/		
		- Courses available for every Bachelor Degree programme of Ca' Foscari University: in this case the Teaching Committee approval is necessary.								
			II	CT0130	NN	Traineeship		6		Evaluation consists of a judgment of suitability.
	CT0117	PROFIN_S		Thesis	6	Information: https://www.unive.it/pag/23247?L=0				
						tot. credits	180			

ATTENTION: the free choice activities (Minor and courses of other University study courses) may differ from year to year; students are invited to check the offer annually. The Teaching committee recommends attending the third year, but it is possible to anticipate them, if offered.

Pre-requirements

Fulfillment of OFAs (Additional Learning Requirements): **OFA in logic – mathematics**

Students cannot take an exam before fulfilling the attributed OFA.

Fulfillment of OFAs (Additional Learning Requirements): **OFA in English Language level B1**

Students that do not fulfil their OFA in English Language level B1 between the exam session in September the year after enrolment, cannot take exams until the attributed OFAs have been fulfilled.

Information are available at page <https://www.unive.it/pag/23192/>