



DEGREE PROGRAM ACADEMIC YEAR 2024/2025						DISVA
CLASS L-32 - Science and technology for the environment and nature (D.M. 270/04)						
Degree Course: ENVIRONMENTAL SCIENCES AND CIVIL PROTECTION						
	SUBJECT	Tipologia	SETTORE	CFU	Tot CFU	Tot. ore
FIRST YEAR						
1	MATHEMATICS AND STATISTICS	Base	MAT/05		9	72
<i>COMBINED COURSE: CHEMISTRY</i>						
2	> GENERAL CHEMISTRY	Base	CHIM/03	7	12	96
	> ORGANIC CHEMISTRY	Base	CHIM/06	5		
3	PHYSICS	Base	FIS/07		8	64
4	FUNDAMENTALS OF EARTH SCIENCES	Caratt.	GEO/01		8	64
5	FUNDAMENTALS OF ZOOLOGY	Caratt.	BIO/05		5	40
<i>COMBINED COURSE: FUNDAMENTALS OF BIOLOGY AND MICROBIOLOGY</i>						
6	>FUNDAMENTAL OF BIOLOGY	Caratt.	BIO/06	5	10	80
	>ENVIRONMENTAL MICROBIOLOGY	Caratt.	AGR/16	5		
	ENGLISH	LS			4	
	COURSE FOR OPTIONAL CREDITS: DATA ANALYSIS**	D	INF/01		3	
			Total CFU		59	
SECOND YEAR (to be activated 2025/2026)						
7	FUNDAMENTALS OF BOTANY	Caratt.	BIO/01		5	40
8	GEOGRAPHY OF RISK AND DISASTERS	Caratt.	M-GGR/01		7	56
9	ENVIRONMENTAL ENERGETICS	Aff.	ING-IND/11		7	56
10	FUNDAMENTALS OF ECOLOGICAL SYSTEMS ANALYSIS	Caratt.	BIO/07		8	64
<i>COMBINED COURSE: ENVIRONMENTAL GEOLOGY</i>						
11	>CARTOGRAPHY AND SOIL MAPPING	Caratt.	GEO/02	5	10	80
	>GEOMORPHOLOGY AND HYDROLOGY	Base	GEO/04	5		
12	FUNDAMENTALS OF OCEANOGRAPHY, METEOROLOGY AND CLIMATE	Caratt.	GEO/12	5	6	48
		Altro	INF/01	1		
13	ECOTOXICOLOGY	Aff.	BIO/13		6	48
14	GEOGRAPHIC TOOLS AND COMMUNICATION TECHNOLOGIES FOR CIVIL AND ENVIRONMENTAL PROTECTION	Caratt.	M-GGR/01		5	40
15	CIVIL PROTECTION ORGANIZATION	Caratt.	IUS/14		5	40
	LAW AND ENVIRONMENTAL LEGISLATION	Altre	IUS/10		3	24
			Total CFU		62	
THIRD YEAR (to be activated 2026/2027)						
<i>COMBINED COURSE: ENVIRONMENTAL REMEDIATION</i>						
16	>APPLIED ECOTECHNOLOGY	Caratt.	BIO/07	8	12	96
	>ENVIRONMENTAL RECOVERY TECHNIQUES	Aff.	ING-IND/26	4		
17	EMERGENCY MANAGEMENT IN CIVIL PROTECTION	Base	GEO/04		7	56
<i>COMBINED COURSE: ENVIRONMENTAL MONITORING</i>						
18	>CHEMICAL MONITORING	Base	CHIM/01	5	10	80
	>BIOLOGICAL AND PHYSICAL MONITORING	Caratt.	BIO/05	5		
<i>COMBINED COURSE: LABORATORY OF ENVIRONMENTAL ANALYSES</i>						
19	>LABORATORY OF ANALYTICAL CHEMISTRY	Caratt.	CHIM/01	5	9	72
	>BIOLOGICAL AND PHYSICAL ANALYSES	Aff.	BIO/13	4		
	OPTIONAL CREDITS *				9	/
	PRACTICAL TRAINING				5	/
	FINAL EXAM				7	/
			Total CFU		59	
20	COURSES FOR OPTIONAL CREDITS *					
	ANALYSIS OF POLLUTANTS	D	CHIM/01		3	24
	GIS APPLICATIONS	D	GEO/04		3	24
	START-UP AND BUSINESS PLANS **	D	ING-IND/26		3	24
	TECHNICAL RESPONSE IN HEALTH EMERGENCIES**	D	MED/41		3	24
	SAFETY ISSUES IN WORKING ENVIRONMENTS**	D	MED/44		3	24

* At least 6 CFU must be acquired attending one of the following optional courses

** to be inserted in the career of students that didn't submit an individual study plan

> Data analysis - First year

> Start-up and business plans - Technical response in health emergencies - Safety issues in working environments - Third year

a) 1 credit= 8 hours. Together with the theoretical lectures, all courses must have at least 1 credit of experimental session

b) combined courses involve various courses with only one final examination

d) to take the third year examinations students have to have passed the English Language test