



## STUDY PLAN MSc IN ENVIRONMENTAL METEOROLOGY AND CLIMATE PHYSICS A.Y. 2025-26

			1st YEAR											
			I SEMESTER - Trento	camp	us									
Code	No.	Courses	SSD	CFU	В1	B2	ВЗ	B4	С	D	E	F	Hours	Notes
140531	1	Introduction to meteorology and climatology*	FIS/06	6				6					60	
140732	2	Enviromental Fluid Mechanics	GEO/12	6				6					60	
140733	3	Environmental measurements	FIS/01	9	9								90	
140534	4	Environmental physical chemistry	CHIM/03	6					6				60	
			TOT. I sem.	27	9	0	0	12	6	0	0	0		
			II SEMESTER - Trento	o camp	us									
Code	No-	Courses	SSD	CFU	В1	B2	B3	B4	С	D	Ε	F	Hours	Notes
140571	5	Atmospheric boundary layer and turbulence	FIS/06	6				6					60	
140729	6	Mathematical models and numerical methods for environmental processes	FIS/02	6		6							60	
140587	7	Hydrology**	ICAR/02	6					6				60	
140730	8	Advanced topics in modern physics	FIS/02	9		9							90	
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			TOT. II sem.	27	0	15	0	6	6	0	0	0		
			TOT. I year		_	4.5	0	40	40	0	0	0	Ī	

			II YEAR											
			I SEMESTER Innsbruc	k cam	pus									
Code	No.	Courses	SSD	CFU	B1	B2	B3	B4	С	D	Ε	F	Hours	Notes
140734	9	Atmospheric radiation and remote sensing	FIS/03	5			5						50	
140542	10	Reading, writing and presenting scientific contents		3								3	30	
140540	11	Atmospheric chemistry and biogeochemistry	BIO/10	6					6				60	
140731	12	Synoptical-Dynamical meteorology	FIS/06	6				6					60	
TOT Mandatory CFU I sem.						0	5	6	6	0	0	3		
		II SI	MESTER Trento/Innsl	oruck c	amp	us								
		MSc. Thesis and courses	SSD	CFU	B1	B2	В3	B4	С	D	Ε	F	Hours	Notes
140543		MSc. Thesis		30							30			
		TOT	Mandatory CFU II sem.	30	0	0	0	0	0	0	30	0		
		Elective courses		16						16				

TOT. II Year	66	0	0	5	6	6	16	30	3
Total Program	120	9	15	5	24	18	16	30	3

			Elective Cou	rses							
		Elective courses		16				16		160	Notes
		1st `	Year - II Semester -	Trento ca	mpu	5					
140585		Air pollution modelling	FIS/06	6				6		60	
140586		Hydrological modelling	ICAR/02	6				6		60	
140607		Introduction to climate change	FIS/06	6				6		60	
140575		Tropical meteorology and climate	FIS/06	6				6		60	
		2nd Year -	I and II Semester -	Innsbruc	k can	ıpus'	**		•	'	
140564		Physics of the Climate System	FIS/06	5				5		50	
140566		Numerical Modelling of Weather and Climate	MAT/08	6				6		60	
140567	<u>.</u>	Modeling of Climate and Cryosphere	FIS/06	3				3		30	
140714	est	Advanced weather forecasting course	GEO/12	5				5		45	
140574	Semester	Scientific Programming	ING-INF/05	5				5		50	
140565	7 2	Mountain Meteorology	FIS/06	5				5		45	
140606		Advanced Topics: Aviation ivieteorology (alternate	FIS/06	4				4		30	
140735		Advanced Topics: Snow and Avaianches (alternate	ICAR/01	6				6		60	
140568	_	Geostatistics	GEO/12	5				5		45	
140572	emester	Cryosphere in the climate system	ICAR/02	5				5		50	
140716	ame	Advanced Topics: Visualizing scientific data	FIS/06	3				3		30	
140717	- S	Advanced Topics: Numerical models in glaciology	FIS/06	3				3		30	
140718		Advanced Topics: Urban Meteorology	FIS/06	3				3		30	

<sup>\*</sup> Students holding a BSc Degree in Ingegneria per l'Ambiente e il Territorio from the University of Trento who have taken "Fondamenti di meteorologia e climatologia" may substitute this course with one of the FIS/06 elective courses, i.e. either "Air pollution modelling", or "Introduction to climate change", or "Tropical meteorology and climate". This option if offered also to students holding other BSc who have taken basics of meteorology at BSc level: the study plan changes request needs to be approved upon checking the contents of meteorology exams taken at BSc level (send the request to supportostudentimesiano@unitn.it)

<sup>\*\*</sup> Students holding a BSc degree in Ingegneria per l'Ambiente e il Territorio from the University of Trento will have "Hydrology" by default substituted with "Hydrological modelling" in their study plan. This option if offered also to students holding other BSc who have taken basics of hydrology at BSc level: the study plan changes request needs to be approved, upon checking the contents of hydrology exams taken at BSc level (send the request to supportostudentimesiano@unitn.it)

<sup>\*\*\*</sup> the list of elective courses at the University of Innsbruck may be subject to changes from one Academic year to the other. When submitting the choice of elective courses in their study plan, students are recommended to check the most updated list of available courses at the web-page https://lfuonline.uibk.ac.at/public/lfuonline\_lv.home [path: Faculty of Geo- and Atmospheric Sciences/Master's Programme Environmental Meteorology according to the curriculum 2018 (120 ECTS-Credits)/2nd Year of Study (University of Innsbruck)/Compulsory Modules (30 ECTS-Credits)]