

MSc in Environmental Science

SPRING 2024

**B - NATURAL HAZARDS & RISK**

Course	Course ID	Person in charge	Semester	Nb hours	NB ECTS	Eval.	VENUE
<b>Module 1 / Compulsory</b>							
Statistical analysis in environmental sciences	SAES	X. Dupla / O. Broennimann	SP	27 C, TP	3	E	
Masters Project Preparation (MPP)	MPP	P. de Anna, G. Mariéthoz, A. Ballu	SP			P	
<b>Module 2 / Optional - Student chooses 4 out of 7 courses</b>							
Weather and Climate dynamics	WCD	D. Domeisen	SP	27 C, TP	5	P	
Watershed and river network modelling	WRNM	N. Peleg	SP	48 C, TP	5	P	
Model parameter estimation and uncertainty quantification	MPE	N. Linde (resp) J. Hunziker	SP	48 C, TP	5	P	
Mountain ecosystems: Pattern & Processes	MEPP	A. Guisan	SP	28 C, 52 T	5	P	
<b>Module 3B / Orientation Natural hazards and risk</b>							
Risk quantification and insurance	RQI	L. Marescot	SP	20 C, TP	2	P	
Risk management (monitoring, early warning, post disaster)	RM	M. Jaboyedoff	SP	20 C, TP, T	2	P / O	
Erosion and slope movements	ESM	Antonio Abellan (CC)	SP	48 C, TP	5	P / O	
Hazards and risk of slope mass movements	HRSM	M.H. Derron	SP	80 T	5	P	
Flood risk modelling	FRM	G. Antoniazza (resp.) Intervenants	SP	48 C, TP	5	P	

Glossary : C: courses  
 Evaluation: O: Oral  
 T: Terrain  
 P: Pratique  
 TP: Travaux pratiques  
 E: Ecrit / Written

1 8	Monday 19.02.24	Tuesday 20.02.24	Wednesday 21.02.24	Thursday 22.02.24	Friday 23.02.24
8h30-9h	FRM	WRNM	WRNM	MEPP	MEPP
9h15-10h					
10h15-11h	FRM		MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h				MPP	
17h-18h					

2 9	Monday 26.02.24	Tuesday 27.02.24	Wednesday 28.02.24	Thursday 29.02.24	Friday 01.03.24
8h30-9h	FRM	WRNM	WRNM	MEPP	MEPP
9h15-10h					
10h15-11h	FRM		MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h				MPP	
17h-18h					

3 10	Monday 04.03.24	Tuesday 05.03.24	Wednesday 06.03.24	Thursday 07.03.24	Friday 08.03.24
8h30-9h	Conservation career day	WRNM	WRNM	MEPP	MEPP
9h15-10h					
10h15-11h		FRM	MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h		SAES	MPE	MPE	
15h-16h					
16h-17h					MPP
17h-18h					

4 11	Monday 11.03.24	Tuesday 12.03.24	Wednesday 13.03.24	Thursday 14.03.24	Friday 15.03.24
8h30-9h	FRM	WRNM	WRNM	MEPP	MEPP
9h15-10h					
10h15-11h	FRM		MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h				MPP	
17h-18h					

5 12	Monday 18.03.24	Tuesday 19.03.24	Wednesday 20.03.24	Thursday 21.03.24	Friday 22.03.24
8h30-9h	FRM	WRNM	WRNM		
9h15-10h					
10h15-11h	FRM		MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

6 13	Monday 25.03.24	Tuesday 26.03.24	Wednesday 27.03.24	Thursday 28.03.24	Friday 29.03.24
8h30-9h	FRM	WRNM	WRNM		Good Friday
9h15-10h					
10h15-11h	FRM		MPE	MPE	
11h15-12h					
lunch break					
13h-14h					
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

/ 14	Monday 01.04.24	Tuesday 02.04.24	Wednesday 03.04.24	Thursday 04.04.24	Friday 05.04.24
8h30-9h	Easter Holidays				
9h15-10h					
10h15-11h					
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

7 15	Monday 08.04.24	Tuesday 09.04.24	Wednesday 10.04.24	Thursday 11.04.24	Friday 12.04.24
8h30-9h	FRM	WRNM	WRNM	MEPP	MEPP
9h15-10h	FRM				ESM
10h15-11h	FRM				
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	SAES	MPP		
15h-16h					
16h-17h					
17h-18h					

8 16	Monday 15.04.24	Tuesday 16.04.24	Wednesday 17.04.24	Thursday 18.04.24	Friday 19.04.24
8h30-9h	FRM	WRNM	WRNM	MEPP	MEPP
9h15-10h	FRM				ESM
10h15-11h	FRM			RQI	
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	SAES	MPP	RQI	
15h-16h					
16h-17h					
17h-18h					

9 17	Monday 22.04.24	Tuesday 23.04.24	Wednesday 24.04.24	Thursday 25.04.24	Friday 26.04.24
8h30-9h	FRM	WRNM	WRNM	MEPP	MEPP
9h15-10h	FRM				ESM
10h15-11h	FRM			RQI	
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	SAES	MPP	RQI	
15h-16h					
16h-17h					
17h-18h					

10 18	Monday 29.04.24	Tuesday 30.04.24	Wednesday 01.05.24	Thursday 02.05.24	Friday 03.05.24
8h30-9h	FRM	WRNM	WRNM		
9h15-10h	FRM				Ascension Pont de l'Ascension
10h15-11h	FRM		RM	RQI	
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD			RQI	
15h-16h					
16h-17h					
17h-18h					

11 19	Monday 06.05.24	Tuesday 07.05.24	Wednesday 08.05.24	Thursday 09.05.24	Friday 10.05.24
8h30-9h	FRM	WRNM	WRNM		
9h15-10h	FRM				Ascension Pont de l'Ascension
10h15-11h	FRM				
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

12 20	Monday 13.05.24	Tuesday 14.05.24	Wednesday 15.05.24	Thursday 16.05.24	Friday 17.05.24
8h30-9h	FRM	WRNM	WRNM		
9h15-10h	FRM				Lundi de Pentecôte
10h15-11h	FRM		RM	RQI	
11h15-12h					
lunch break					
13h-14					
14h-15h				RQI	
15h-16h					
16h-17h					
17h-18h					

13 21	Monday 20.05.24	Tuesday 21.05.24	Wednesday 22.05.24	Thursday 23.05.24	Friday 24.05.24
8h30-9h					
9h15-10h					Lundi de Pentecôte
10h15-11h				RQI	
11h15-12h					
lunch break					
13h-14					
14h-15h				RQI	
15h-16h					
16h-17h					
17h-18h					

14 22	Monday 27.05.24	Tuesday 28.05.24	Wednesday 29.05.24	Thursday 30.05.24	Friday 31.05.24
8h30-9h					
9h15-10h					Lundi de Pentecôte
10h15-11h					
11h15-12h					
lunch break					
13h-14	MEPP	MEPP			
14h-15h					
15h-16h					
16h-17h					
17h-18h					

/ 23	Monday 03.06.24	Tuesday 04.06.24	Wednesday 05.06.24	Thursday 06.06.24	Friday 07.06.24
8h30-9h					
9h15-10h					Lundi de Pentecôte
10h15-11h					
11h15-12h					
lunch break					
13h-14	HRSM	HRSM	HRSM	HRSM	
14h-15h					
15h-16h					
16h-17h					
17h-18h					

/ 24	Monday 10.06.24	Tuesday 11.06.24	Wednesday 12.06.24	Thursday 13.06.24	Friday 14.06.24
8h30-9h					
9h15-10h					Lundi de Pentecôte
10h15-11h					
11h15-12h					
lunch break					
13h-14	HRSM	HRSM	HRSM	HRSM	
14h-15h					
15h-16h					
16h-17h					
17h-18h					

/ 28	Monday 08.07.24	Tuesday 09.07.24	Wednesday 10.07.24	Thursday 11.07.24	Friday 12.07.24
8h30-9h					
9h15-10h					Lundi de Pentecôte
10h15-11h					
11h15-12h					
lunch break					
13h-14	MEPP	MEPP	MEPP	MEPP	
14h-15h					
15h-16h					
16h-17h					
17h-18h					

