

MSc in Environmental Science

SPRING 2023

**B - NATURAL HAZARDS & RISK**

Course	Course ID	Person in charge	Semester	Nb hours	NB ECTS	Eval.	Not placed
<b>Module 1 / Compulsory</b>							
Statistical analysis in environmental sciences	SAES	P. Villos, P. de Anna	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	40 C, TP	5	P	0
Watershed and river network modelling	WRNM	N. Peleg / V. Ruiz-Villanueva	SP	48 C, TP	5	P	0
Model parameter estimation and uncertainty quantification	MPE	N. Linde (resp) J. Hunziker	SP	48 C, TP	5	P	2224 / 2145
<b>Module 3B / Orientation Natural hazards and risk</b>							
Risk quantification and insurance	RQI	L. Marescot	SP	20 C, TP	2	P	2207
Risk management (monitoring, early warning, post disaster)	RM	M. Jaboyedoff / Intervenants	SP	20 C, TP, T	2	P / O	2208
Erosion and slope measurements	ESM	M. Jaboyedoff	SP	48 C, TP	5	P / O	2138
Hazards and risk of slope mass movements	HRSM	M.H. Derron / M. Jaboyedoff	SP	80 T	5	P	EXT
Flood risk modelling	FRM	F. Meltra (resp.) Intervenants	SP	48 C, TP	5	P	2138

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

1	Monday 20.02.23	Tuesday 21.02.23	Wednesday 22.02.23	Thursday 23.02.23	Friday 24.02.23
8h30-9h		FRM	WRNM		RQI
9h15-10h					
10h15-11h	WRNM	FRM	MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h				MPP	
17h-18h					

2	Monday 27.02.23	Tuesday 28.02.23	Wednesday 01.03.23	Thursday 02.03.23	Friday 03.03.23
8h30-9h		FRM	WRNM	FRM	RQI
9h15-10h					
10h15-11h	WRNM	FRM	MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

3	Monday 06.03.23	Tuesday 07.03.23	Wednesday 08.03.23	Thursday 09.03.23	Friday 10.03.23
8h30-9h	Conservation career day	FRM	WRNM	FRM	RQI
9h15-10h					
10h15-11h		FRM	MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h		SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

4	Monday 13.03.23	Tuesday 14.03.23	Wednesday 15.03.23	Thursday 16.03.23	Friday 17.03.23
8h30-9h		FRM	WRNM		RQI
9h15-10h					
10h15-11h	WRNM	FRM	MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

5	Monday 20.03.23	Tuesday 21.03.23	Wednesday 22.03.23	Thursday 23.03.23	Friday 24.03.23
8h30-9h					RQI
9h15-10h			WRNM		
10h15-11h	WRNM		MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

6	Monday 27.03.23	Tuesday 28.03.23	Wednesday 29.03.23	Thursday 30.03.23	Friday 31.03.23
8h30-9h		FRM	WRNM		RQI
9h15-10h					
10h15-11h	WRNM	FRM	MPE	MPE	
11h15-12h					
lunch break					
13h-14h					ESM
14h-15h	WCD	SAES	MPE	MPE	
15h-16h					
16h-17h					
17h-18h					

7	Monday 03.04.23	Tuesday 04.04.23	Wednesday 05.04.23	Thursday 06.04.23	Friday 07.04.23
8h30-9h		FRM	WRNM	FRM	Good Friday
9h15-10h					
10h15-11h	WRNM	FRM		FRM	
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	SAES	MPP		
15h-16h					
16h-17h					
17h-18h					

	Monday 10.04.23	Tuesday 11.04.23	Wednesday 12.04.23	Thursday 13.04.23	Friday 14.04.23
8h30-9h	Easter Holidays				
9h15-10h					
10h15-11h					
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

8	Monday 17.04.23	Tuesday 18.04.23	Wednesday 19.04.23	Thursday 20.04.23	Friday 21.04.23
8h30-9h		FRM	WRNM		RQI
9h15-10h					
10h15-11h	WRNM	FRM		RM	ESM
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	SAES	MPP		
15h-16h					
16h-17h					
17h-18h					

9	Monday 24.04.23	Tuesday 25.04.23	Wednesday 26.04.23	Thursday 27.04.23	Friday 28.04.23
8h30-9h		FRM	WRNM		RQI
9h15-10h					
10h15-11h	WRNM	FRM		RM	ESM
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	SAES	MPP		
15h-16h					
16h-17h					
17h-18h					

10	Monday 01.05.23	Tuesday 02.05.23	Wednesday 03.05.23	Thursday 04.05.23	Friday 05.05.23
8h30-9h		FRM	WRNM	RQI	
9h15-10h					
10h15-11h	WRNM	FRM		RQI	
11h15-12h					
lunch break					
13h-14					
14h-15h	WCD	FRM			
15h-16h		FRM			
16h-17h					
17h-18h					

11	Monday 08.05.23	Tuesday 09.05.23	Wednesday 10.05.23	Thursday 11.05.23	Friday 12.05.23
8h30-9h					
9h15-10h					
10h15-11h					WRNM
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

12	Monday 15.05.23	Tuesday 16.05.23	Wednesday 17.05.23	Thursday 18.05.23	Friday 19.05.23
8h30-9h			WRNM		Ascension Point de l'Ascension
9h15-10h					
10h15-11h					
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

13	Monday 22.05.23	Tuesday 23.05.23	Wednesday 24.05.23	Thursday 25.05.23	Friday 26.05.23
8h30-9h	RM	RM	WRNM		WRNM
9h15-10h					
10h15-11h					
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

14	Monday 29.05.23	Tuesday 30.05.23	§ 31.05.23	Thursday 01.06.23	Friday 02.06.23
8h30-9h	HRSM	HRSM	HRSM	HRSM	HRSM
9h15-10h					
10h15-11h					
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					

15	Monday 05.06.23	Tuesday 06.06.23	Wednesday 07.06.23	Thursday 08.06.23	Friday 09.06.23
8h30-9h	HRSM	HRSM	HRSM	HRSM	HRSM
9h15-10h					
10h15-11h					
11h15-12h					
lunch break					
13h-14					
14h-15h					
15h-16h					
16h-17h					
17h-18h					