

MSc in Environmental Science

AUTUMN 2022

A - AQUATIC SCIENCE

Course	Course ID	Course in charge	Semester	Nb hours	NB ECTS	Eval.	Venue / Room
Introduction, general presentation and team presentation	Intro	P. de Anna	SA			/	
<b>Module 1 / Compulsory</b>							
Masters Project Preparation (MPP)	MPP	P. de Anna, G. Mariéthoz, A. Ballu	SA	32 C, TP	4	P	
Applications of environmental science seminar series	AESS	N Chèvre, N Linde, MH Derron, J Hünziker	SA	12 S	1	P	
Introduction to Scientific Programming with Python	ISPP	T. Beucler	SA	16 C, TP	2	P	CR
<b>Module 2 / Optional - Student chooses 4 out of 7 courses</b>							
Environmental time-series analysis	ETSA	J. Irving	SA	48 C, TP	5	P / E	1x Norm 1x CR
Remote sensing of Earth systems	RS	G. Mariéthoz / S. Lane	SA	48 C, TP	5	P	CR
Machine learning for earth and environmental sciences	MLEE	T. Beucler	SA	40 C, TP	5	P	CR
Scientific computing	SC	Y. Poudatchkov	SA	48 C, TP	5	P	CR
<b>Module 3A / Orientation Aquas</b>							
Fluid flow and transport in the subsurface	FF	P. de Anna	SA	50 C, TP	6	P / O	From W5 + CR
Environmental toxicology	ET	N. Chèvre	SA	20 C, TP	2	P	
Environmental Biogeochemistry	EB	P. de Anna, P. Véliz, J. Hünziker, N. Dupla	SA	20 C, TP	1	ECRIT 1000	MARINIA 1L-13-20 (S SEM 5)
Tracing biogeochemical processes and fluxes using isotope analysis	TBP	T. Vennemann	SA	20 C, TP	2	P	
Field and laboratory methods (II): alpine catchments (FOR 2ND YEAR STUDENTS)	FLM II	M.-E. Perga / S. Lane	SP + SA	50 C, T	6	P	

Courses which are not managed by MSc Envi

Glossary : C: courses T: Terrain TP: Travaux pratiques  
 Evaluation: O: Oral P:Pratique Cci: Contrôle continu avec inscription

1	Monday 19.09.22	Tuesday 20.09.22	Wednesday 21.09.22	Thursday 22.09.22	Friday 23.09.22
8h30-10h	JEÛNE FÉDÉRAL	Intro		FF	
10h15-11h			FF		
11h15-12h					
lunch break					
13h-14h					
14h-15h					
15h16h					
16h-17h					
17h-18h					

2	Monday 26.09.22	Tuesday 27.09.22	Wednesday 28.09.22	Thursday 29.09.22	Friday 30.09.22
8h30-10h	ETSA		RS	FF	ISPP
10h15-11h			FF	RS	TBP
11h15-12h					
lunch break					
13h-14h			ISPP	ETSA	
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

3	Monday 03.10.22	Tuesday 04.10.22	Wednesday 05.10.22	Thursday 06.10.22	Friday 07.10.22
8h30-10h	ETSA		RS	FF	ISPP
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	ISPP	ETSA	
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

4	Monday 10.10.22	Tuesday 11.10.22	Wednesday 12.10.22	Thursday 13.10.22	Friday 14.10.22
8h30-10h	ETSA		RS	FF	ISPP
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	ISPP	ETSA	
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

5	Monday 17.10.22	Tuesday 18.10.22	Wednesday 19.10.22	Thursday 20.10.22	Friday 21.10.22
8h30-10h	ETSA		RS	FF	ISPP
10h15-11h	SC	EB	FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	ISPP	ETSA	
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

6	Monday 24.10.22	Tuesday 25.10.22	Wednesday 26.10.22	Thursday 27.10.22	Friday 28.10.22
8h30-10h	ETSA		RS	FF	MLEE
10h15-11h	SC	EB	FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	MLEE	ETSA	
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

7	Monday 31.10.22	Tuesday 01.11.22	Wednesday 02.11.22	Thursday 03.11.22	Friday 04.11.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	MLEE	ETSA	AESS
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

8	Monday 07.11.22	Tuesday 08.11.22	Wednesday 09.11.22	Thursday 10.11.22	Friday 11.11.22
8h30-10h					MLEE
10h15-11h					
11h15-12h					
lunch break					
13h-14h			MLEE		
14h-15h					
15h16h					
16h-17h					
17h-18h					

9	Monday 14.11.22	Tuesday 15.11.22	Wednesday 16.11.22	Thursday 17.11.22	Friday 18.11.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC		ETSA	AESS
14h-15h	ET				
15h16h					
16h-17h					
17h-18h					

10	Monday 21.11.22	Tuesday 22.11.22	Wednesday 23.11.22	Thursday 24.11.22	Friday 25.11.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	MLEE	ETSA	AESS
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

11	Monday 28.11.22	Tuesday 29.11.22	Wednesday 30.11.22	Thursday 01.12.22	Friday 02.12.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h		SC	MLEE	ETSA	AESS
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

12	Monday 05.12.22	Tuesday 06.12.22	Wednesday 07.12.22	Thursday 08.12.22	Friday 09.12.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h	SC		FF	RS	TBP
11h15-12h					
lunch break					
13h-14h			MLEE	ETSA	AESS
14h-15h	ET				
15h16h			MPP		
16h-17h					
17h-18h					

13	Monday 12.12.22	Tuesday 13.12.22	Wednesday 14.12.22	Thursday 15.12.22	Friday 16.12.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h			FF	RS	
11h15-12h					
lunch break					
13h-14h			MLEE	ETSA	AESS
14h-15h					
15h16h			MPP		
16h-17h					
17h-18h					

14	Monday 19.12.22	Tuesday 20.12.22	Wednesday 21.12.22	Thursday 22.12.22	Friday 23.12.22
8h30-10h	ETSA		RS	FF	MLEE
		EB			
10h15-11h	SC		FF	RS	
11h15-12h					
lunch break					
13h-14h		SC	MLEE	ETSA	
14h-15h					
15h16h			MPP		
16h-17h					
17h-18h					