

Cours	Enseignant-e-s	★ S1	🌱 S2	★ S3	🌱 S4	Examen	Crédits	
Master of Science in Biology								TOTAL 120
Core Curriculum								TOTAL
Compulsory courses								TOTAL 21
Generic skills								TOTAL 9
Statistics	R. SLOBODEANU	30pg		30pg		controle continu	3	
Scientific writing	K. ZUBERBUEHLER	30pg		30pg		controle continu	3	
Seminars by externals	T. DEGEN	14pg	14pg	14pg	14pg	controle continu	3	
Computer tools								TOTAL 3
Bioinformatics tools	D. CROLL N. IVANOV	30pg		30pg		controle continu	3	
Models and parameter estimation	J. KOELLA	30pg		30pg		controle continu	3	
Seminars								TOTAL 6
Seminar ecology and sustainability	J. VERMEER	30pg		30pg		controle continu	3	
Seminar ecology and evolution	R. BSHARY K. ZUBERBUEHLER	30pg		30pg		controle continu	3	
Seminar ecology and biodiversity	D. CROLL S. RASMANN C. ZEMP	30pg		30pg		controle continu	3	
Laboratory and field methods								TOTAL 3
Molecular methods	S. Venkatasalam	7dj		7dj		controle continu	3	
Natural substance analyses	G. ROEDER S. VON REUSS	7dj		7dj		controle continu	3	
Elective courses								TOTAL 15
Basics of Conservation biology								TOTAL 3
Methods in biodiversity monitoring	C. PRAZ	30pg		30pg		écrit	3	
Animal conservation	C. PRAZ	30pg		30pg		controle continu	3	
Biodiversity and agriculture: a transdisciplinary perspective	A. AEBI		28pg		28pg	controle continu	3	
Plant systematics and evolution	J. GRANT		30pg		30pg	controle continu	3	
Special skills								TOTAL 3
Introduction to geomatics for biodiversity conservation	S. BOILLAT	28pg		28pg		controle continu	3	
Microscopy	O. Sereda	7dj		7dj		controle continu	3	
Directed readings : first steps in natural or social sciences	A. AEBI	28pg		28pg		controle continu	3	
Advanced geomatics for biodiversity conservation	S. BOILLAT		28pg		28pg	controle continu	3	
Excursion								TOTAL 3
EXC Tropical ecology	B. BENREY		7j		7j	controle continu	3	
EXC Marine biology	R. BSHARY		7j		7j	controle continu	3	
EXC Mediterranean ecology	W. Mueller		7j		7j	controle continu	3	
EXC Alpine ecology	S. BINDSCHEDLER J. GRANT S. RASMANN		7j		7j	controle continu	3	
Internship								TOTAL
Internship	K. ZUBERBUEHLER	1	1	1	1	controle continu	6	
Specializations								TOTAL 24
Group I								TOTAL
Sustainable agriculture								TOTAL 12
Integrated pest management (course + workshop)	T. TURLINGS		40pg		40pg	controle continu	4	
Plant domestication and insect interactions	B. BENREY		20pg		20pg	controle continu	2	
Microbial ecology	S. BINDSCHEDLER P. JUNIER		30pg		30pg	controle continu	3	
Plant pathology	T. BADET		30pg		30pg	controle continu	3	
Animal behaviour								TOTAL 12
An integrative approach to animal behaviour	R. BSHARY E. GENTY X. LI		28pg		28pg	controle continu	3	
Animal behaviour research	R. BSHARY K. ZUBERBUEHLER		28pg		28pg	controle continu	3	
Behavioural ecology	R. BSHARY		28pg		28pg	controle continu	3	
Comparative cognition	E. GENTY K. ZUBERBUEHLER		28pg		28pg	controle continu	3	
Group II								TOTAL
Biodiversity								TOTAL 12
Soil Biodiversity	E. MITCHELL		28pg		28pg	controle continu	3	
Genomics of biodiversity	K. LUCEK		28pg		28pg	controle continu	3	
Natural ecosystems of Switzerland	S. Ursenbacher		28ph		28ph	controle continu	3	
Biodiversity data analysis	E. DEFOSSEZ		28pg		28pg	controle continu	3	
Ecology and evolution								TOTAL 12
Ecological interactions	B. BENREY		30pg		30pg	controle continu	3	
Evolutionary parasitology	J. KOELLA		30pg		30pg	controle continu	3	
Evolutionary ecology	D. CROLL		30pg		30pg	controle continu	3	
Methods in evolutionary ecology	J. KOELLA		30pg		30pg	controle continu	3	
Group III								TOTAL
Conservation biology								TOTAL 12
Evidence-based conservation of species and habitats	C. PRAZ		30pg		30pg	controle continu	3	
Evidence-based conservation of ecosystems	C. ZEMP		30pg		30pg	controle continu	3	
Plant and ecosystem conservation	S. RASMANN		30pg		30pg	controle continu	3	
Faunistic methods	B. Schmidt		3j		3j	controle continu	3	

Chemical ecology						TOTAL 12
The basics of chemical ecology + labs	G. ROEDER T. TURLINGS	7dj	7dj	écrit	2	
Biosynthesis and function of secondary compounds	F. KESSLER J. VERMEER	7dj	7dj	controle continu	2	
Recent advances in chemical ecology	T. TURLINGS	7dj	7dj	controle continu	2	
Plant molecular genetics + labs	J. VERMEER	7dj	7dj	controle continu	3	
Natural products chemistry + labs	S. VON REUSS	7dj	7dj	controle continu	3	
Master Thesis						TOTAL 60
Master Thesis	B. BENREY R. BSHARY P. JUNIER F. KESSLER J. KOELLA E. MITCHELL T. TURLINGS K. ZUBERBUEHLER		1pg 1pg	mémoire / dissertation	60	
Complément de formation (étudiants avec contrat pédagogique)						TOTAL