

The Master program has the minimum duration of 3 semesters and comprises 90 ECTS :

- 10.5 ECTS : Compulsory courses
- 19.5 ECTS : Optional courses
- 15 ECTS : First step project
- 45 ECTS : Personal research project (Master thesis)

Autumn Semester (semester 1)

Course	Teaching Staff	Hours per semester			ECTS Credits
		C	E/S	PW	
Compulsory					
Problem-based learning in methodology	Franken P.	7	35		3.5
Molecular genetics	Sanders I., Fumagalli L.	14		42	4.5
Introduction into scientific writing	Hochberg M.	7	10		1.5
Seminars of the Dept. of Ecology and Evolution	Wedekind C.		14		1
Total					10.5
Optional (choice -> 4.5 credits)					
Behavioural ecology	Roulin A., Christe P.	14			1.5
Populations genetic and dynamic	Goudet J.	7	10		1.5
Spatial analyses and GIS in ecology	Guisan A.	7	10		1.5
The major transitions in evolution	Keller L.	14			1.5
Introduction to R	Goudet J.	8	20		1.5
Phylogeography	Fumagalli L.	7	10		1.5
Practical project					
First step project	Wedekind C.			224	15
Total					30

Abbreviations

C = Course
 E/S = Exercise/Seminar
 PW = Practical Work

Spring Semester (semester 2)

Course	Teaching Staff	Hours per semester			ECTS Credits
		C	E/S	PW	
Optional (choice -> 15 credits)					
Analysis of Environmental Data I : Geostatistics and Temporal Data	Kanevski M., Maignan M.	24		18	4
Analysis of Environmental Data II : Advanced Methods	Kanevski M.	28		18	4
Applied ecology	Neet C.	14		28	2.5
Biology of invasives species	Cherix D.	14			1.5
Case studies in population biology	Perrin N.	14			1.5
Co-evolution, mutualism, parasitism	Sanders I.	14			1.5
Comparative genomics	Reymond A., Kaessmann H.		14		1
Conservation genetics	Fumagalli L.	14			1.5
Current problems in conservation biology	Wedekind C.	14	14		2.5
Ecology of the fishes of Switzerland	Rubin J.-F.	7		10	1.5
Evolutionary Biology Workshop	Kawecki T.	14		32	3
Evolution of plant sexual systems	Pannell J.	7		14	1.5
Honeybee ecology and evolution	Dietemann V.	14			1.5
Hybridization and allopolyploidy in vertebrates	Stöck M.	14			1.5
Microbial Ecology	van der Meer J.			35	1.5
Phylogeny and comparative methods	Salamin N.	7	14		1.5
Predictive models of species' distribution	Guisan A.	14	14		2.5
Scientific Mediation and Communication	Desvergne B., Kaufmann A.	28			3
Sexual selection	Fitze P.	14			1.5
Seminars of the Dept. of Ecology and Evolution	Wedekind C.		14		1
Optional internships					
Internship in the Alps	Guisan A.			32	1.5
Internship in Andalusia	Roulin A., Christe P.			40	1.5
Ecology and faunistics of the sea shore, Roscoff	Perrin N.			56	3
Compulsory personal research project					
Personal Research Project - Master thesis	Wedekind C.			280	15

Semester 3

Course				ECTS Credits
Compulsory personal research project				
Personal Research Project - Master thesis				30