

List of Core Elective Modules for the Master program in Biodiversity

Core elective modules group 2 (block courses) and **group 3** (special courses): **15 ECTS**

Elective modules (freely selectable from all master courses at UZH and ETH): **5 ECTS**

Compulsory modules: EEE520 (10 ECTS), EEE500 (60 ECTS)

Please note that modules are subject to change. Refer to the online course catalogue for the current online [VVZ UZH](http://VVZ.UZH)

Core elective modules group 2 (block courses), autumn semester (HS)

The block courses run from Tuesday afternoon till Friday over 3.5 weeks or 7 weeks.

HS 1st Quarter

EEE 334	Biodiversity from Species to Landscape Scale	6 ECTS
EEE 338	Evolutionary and Ecological Functional Genomics	6 ECTS
BIO 314	Plant Epigenetics	6 ECTS
EEE 318	Aquatic Ecology (1 st & 2 nd Quarter)	12 ECTS

HS 2nd Quarter

EEE 316	Tropical Plant Families: Identification, Ethnobotany, and Chemistry	6 ECTS
EEE 320	Sociobiology in Animals	6 ECTS
EEE 328	Experimental Invertebrate Reproduction	6 ECTS
BIO 267	Paleobiology and Evolution of Vertebrates	6 ECTS
BIO 282	Methods in Molecular Plant Biology	6 ECTS
BME334	Applied Statistics for BME and BIO: Advanced Linear Models	6 ECTS

HS 3rd Quarter

EEE 312	The Species Problem: Sp. Concepts, Sp. Delimitation, and Taxonomy	6 ECTS
EEE 324	Project Development in Biogeography and Biodiversity	6 ECTS
EEE 326	Principles of Evolution: Theory	6 ECTS
BIO 203	Great Apes Behaviour	6 ECTS
BIO 253	Research Cycle in Genomics	6 ECTS
BIO 284	Systemic Microbiology	6 ECTS
BIO 285	Genetic & Epigen. Control of Plant Develop.	6 ECTS
BIO 440	Evolutionary Medicine: Morphological Changes and Pathologies	6 ECTS
BIO 323	Modern Genetics und Genomics (3 rd & 4 th Quarter)	12 ECTS

HS 4th Quarter

EEE 310	Current conflicts in Biodiversity Policy	6 ECTS
EEE 330	Population Ecology	6 ECTS
EEE 336	Measuring and monitoring genetic diversity for conservation	6 ECTS
BIO 204	Human Evolutionary Eco Physiology	6 ECTS
BIO 268	Paleontological Fieldwork	6 ECTS
BIO 286	Plant Sensing	6 ECTS
BIO 445	Quantitative Life Sciences: from infectious diseases to ecosystems	6 ECTS

Core elective modules group 3 (special courses), autumn semester (HS)

EEE 352	Contemporary analysis for ecology (Mon13-15, Tue 10-12)	4 ECTS
EEE 356	Microbial Ecology of Alpine Freshwater Ecosystems (1 week in July)	3 ECTS
EEE 358	Introduction to Limnology (Mon10-12)	3 ECTS
EEE 360	Ornithology (every 2 nd year HS25, ...)	2 ECTS
EEE 364	Wildlife Ecology and Conservation (every 2 nd year HS26, ...) (Mon8-10)	2 ECTS
EEE 368	Social science research design and methods (Mon12-14)	3 ECTS
BIO 201	Primate Evolutionary Biology (Mon14-16)	2 ECTS
BIO 214	Von Affenmenschen und Menschenaffen (Mon10-12)	2 ECTS
BIO 228	Evolutionary Medicine (Thur 10-12)	2 ECTS
BIO 243	Epigenetics (Mon15-17)	3 ECTS
BIO 271	Illustrations in Natural History (Mon16-17)	1 ECTS
BIO 280	Animal Domestication (Tue 10-12)	2 ECTS
BIO 297	Social Behaviour of Bacteria (Mon16-18)	3 ECTS
BIO 331	Frontiers in Animal Behaviour (Mon10-12)	2 ECTS
BIO 336	From DNA to Diversity: the Evolution of Multic. Org. (Mon10-12)	2 ECTS
BIO 340	Biology, Evolution, and Ecology of Marine Mammals (Tue 10-12)	3 ECTS
BIO 386	Sociobiology of Communication I (Tue 8-10)	3 ECTS
BIO 390	Introduction to Bioinformatics (Tue 8-10)	3 ECTS
BIO 398	The Ethics of Human Enhancement (Mon10-12)	3 ECTS
BIO 412	Introd. Course in Laboratory Animal Science (Jan., June, Aug.)	2 ECTS
BIO 416	Microscopy (Tue 10-12)	3 ECTS
BIO 437	Human Adaptation (Tue 10-12)	3 ECTS
BIO 438	Methods in Human Bioarcheology (Tue 8-10)	3 ECTS
BIO 444	Quantitative Biosciences (Mon10-12)	3 ECTS
BIO 556	Scientific Writing for Organismal Biologists (Fry10-12)	3 ECTS
BIO 606	BEEES Seminar (Thur 12-13)	0 ECTS

Core elective modules group 2 (block courses), spring semester (FS)

The block courses run from Tuesday afternoon till Friday over 3.5 weeks or 7 weeks.

FS 1st Quarter

EEE 311	Remotely Sensing the Basis of Biodiversity	6 ECTS
BIO 262	Evolutionary Morphology of Vertebrates - Issues and Methods	6 ECTS
BIO 330	Modelling in Biology	6 ECTS
BIO 407	Advanced Microscopy	6 ECTS
BME357	Diseases at the Human Animal Interface	6 ECTS

FS 2nd Quarter

EEE 313	What is working in Conservation?	6 ECTS
EEE 315	Flowers and Pollinators	6 ECTS
EEE 319	Aquatic Microbial Ecology (not in FS26)	6 ECTS
EEE 321	Ecological Networks	6 ECTS

FS 3rd Quarter

EEE 317	Ecological Research Project on Species Interactions (3 rd & 4 th Quarter)	12 ECTS
EEE 323	Applied Methods in Wildlife Management and Conservation	6 ECTS
BIO 202	Comparative Communication and Cognition	6 ECTS
BIO 287	Plant Cell Wall Development	6 ECTS
BIO 326	Animal Development, Evolution and Disease	6 ECTS

FS 4th Quarter

EEE 327	Animal Behaviour Field Studies	6 ECTS
EEE 333	Conservation Science and Practice of Swiss Amphibians	6 ECTS
BIO 211	Primate Behav. and Cognition: Concepts, Methods and Tools (HS26)	6 ECTS
BIO 334	Practical Bioinformatics	6 ECTS
BIO 442	Evolutionary Medicine: Health and Disease in Modern Humans	6 ECTS

Summer

EEE 329	Flora der Schweiz (umfasst auch BIO 300 und BIO 301)	6 ECTS
EEE 331	Kalahari Field course: Becoming a (Field) Biologist!	6 ECTS
BIO 341	Field Course in Evolutionary Biology of Marine Mammals (not in FS26)	6 ECTS

Core elective modules group 3 (special courses), spring semester (FS)

EEE 351	Conservation Biology (Mon10-12)	3 ECTS
EEE 353	Field Course in Biodiversity Assess. and Monitoring (1 week in Aug.)	2 ECTS
EEE 354	Biodiversitätsmonitoring Programm Schweiz (3 days in Sept.)	2 ECTS
EEE 355	Littérature, écologie et éthique environnementale (Tue 10-12)	1 ECTS
EEE 357	Agroecology, Food Security and Sustainable Production (Tue 8-10)	3 ECTS
EEE 359	Systematik der Blütenpflanzen (1 Woche im Juni)	2 ECTS
EEE 361	Gefässpflanzen des Mittellandes (1 Woche im Juni)	2 ECTS
EEE 363	Field Class: Biodiversity of Insects (1 Woche im Juli)	3 ECTS
BIO 207	Comparative Systematics and Evolution of Primates (Tue 10-12)	3 ECTS
BIO 216	Primate Origins of Human Sociality, Cognition, and Mind (Mon10-12)	2 ECTS
BIO 218	Ethische Aspekte der biol. Forschung am Menschen (Mon12-14)	2 ECTS
BIO 239	Organisms of the Tidal Coast: Algae and Invertebr. (2 weeks in July)	4 ECTS
BIO 254	Functional Genomics (Mon16-18)	3 ECTS
BIO 266	Fieldwork in Swiss Palaeontology and Natural History Museums	3 ECTS
BIO 272	Evolution & Paläobiol. der Amph. & Reptilien (Mon13-14)	1 ECTS
BIO 354	Zoo Biology (Mon 8-10)	2 ECTS
BIO 355	Praktikum Zoobiologie	2 ECTS
BIO 368	Scientific Information Literacy (Mon15-17)	3 ECTS
BIO 402	Philosophy of Science with a Focus on Biology (Mon14-16)	3 ECTS
BIO 606	BEEES Seminar (Thur 12-13)	0 ECTS
BIO 630	Ethics in Scientific Practice (Mon17-19)	3 ECTS
ESS 812	Sustainable management of genetic resources (Tue 14-16)	2 ECTS