Module variant to: Topics in Biodiversity, Evolution and Ecology

Module: Current topics in Freshwater Ecology: Structure, Function and Dynamics	
University/Department/Teaching Unit: Freie Universität Berlin/Department of Biology, Chemistry, Pharmacy/Biology	
Module coordinator: Hölker, de Meester	
Prerequisites: none	
Learning objectives: After completing this module, students will have in-depth knowledge of the physical and biological structure and function of aquatic and semi-terrestrial ecosystems. They will acquire knowledge of essential theoretical concepts relating to evolution, the control of aquatic biocoenoses, and biodiversity, and will be able to place these in an ecosystem context and evaluate them. They will be able to critically analyze current issues and publications and present their findings.	
Content: In-depth insight into selected current research topics in biodiversity, evolution, and aquatic ecology. Critical analysis of original works. Synthesis and presentation of selected specialist literature in a lecture.	

Modes of instruction	**Contact hours** (hours per week during the semester)	**Types of active participation**	**Work load** (in hours)	
Lecture (V)	2	–	Class attendance (lecture) Preparation, before and after (lecture)	30 15
Seminar (S)	1	Preparation of scientific papers, participation in discussion and question-and-answer session	Class attendance (seminar) Preparation, before and after (seminar) Exam preparation and exam	15 15 75

Module assessment	Written exam (60 minutes), wholly or partially in multiple-choice format; can also be carried out electronically or written report on research results (approx. 10 pages) or examination colloquium (approx. 20 minutes)	
Language	English	
Regular attendance required	Seminar: yes, lecture: attendance recommended	
Total workload	150 hours	5 credit points
Duration	one semester	
Frequency	irregular	
Applicability	Master's degree program M.Sc. Biology; Master's degree program M.Sc. Biodiversity, Evolution and Ecology	

Utilization in the following specializations (decision by the examining board):

Biodiversity, Evolution and Ecology	x
Genetics and Genomics	
Microbiology	
Molecular- and Cellular Biology	
Molecular Plant Sciences	
Neurobiology	
Biology	x