

Module title		Abbreviation
Macroecology		07-MMAC-242-m01
Module coordinator		Module offered by
holder of the Chair of Animal Ecology and Tropical Biology		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
<p>This block course provides students with an introduction to macroecology (which deals with patterns and processes of biological diversity at large spatial and temporal scales) and, in particular, practical knowledge and skills of macroecological research. Using prepared (bio)geographic and ecological data, students will analyze large-scale biodiversity patterns, the influence of abiotic factors on species distributions and species richness, and potential conservation applications. In individual projects students will apply the learned methodological approaches, the results are presented and discussed in a presentation and a protocol. Seminar discussions on classical and current macroecological literature will complete the course.</p>		
Intended learning outcomes		
<p>At the end of the course, students will have an in-depth understanding of macroecological research approaches. They will be able to analyze large-scale spatio-temporal variation in biological diversity in the context of ambient environmental conditions and evaluate the results from a conservation perspective. Students will be able to apply statistical methods to investigate macroecological data and to critically evaluate the possibilities and limitations of macroecological methods.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (5) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English</p>		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
Teaching cycle: Once a year, winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biosciences (2024)		