

Module Name Ecology, Evolution and Environment - Theory and Methods						
Type of Module Advanced Module				Module Code AM-B-E 1		
Identification Number MN-B-E 1	Workload 180 Hours	Credit Points 6 CP	Term 1. – 3. Semester	Offered Every WiSe	Start Winter Term Only	Duration 1 Semester
1	Course Types a) Lecture		Contact Time 49 h	Private Study 131 h		Planned Group Size 50-70 Students
2	Module Objectives and Skills to be Acquired Students who successfully completed this module ... <ul style="list-style-type: none"> • have acquired detailed knowledge on ecological theory and methods as well as skills on analysis of experimental data from field and laboratory studies. • have acquired knowledge on current aspects of evolution in ecological systems and its relationships to the aquatic, terrestrial and chemical environment. • can solve problems and develop strategies to answer questions related to environmental aspects of ecology and evolution. 					
3	Module Content <ul style="list-style-type: none"> • Introduction to ecological theory and methods • Molecular ecology • Chemical ecology • Ecological stoichiometry • Evolution of species • Micro- and macroevolution • Non-linear interaction in biological systems • Ecosystem dynamics • Anthropogenic impact on ecosystems 					
4	Teaching Methods <ul style="list-style-type: none"> • Lectures 					
5	Prerequisites (for the Module) Formally: none Additional academic requirements: The knowledge of ecology on the level of general biology text books (e.g. Ecology: From Individuals to Ecosystems by Begon & Townsend or Community Ecology by Verhoef & Morin) is required.					
6	Type of examination Two hours written examination about topics of the lectures (100 % of the total module mark)					
7	Credits Awarded Written examination at least "sufficient"					
8	Compatibility with other Curricula None					

9	<p>Proportion of Final Grade</p> <p>6/114</p>
10	<p>Module Coordinator</p> <p>Prof. Dr. Hartmut Arndt, phone 470 3100, e-mail: teach-ecology@uni-koeln.de</p>
11	<p>Further Information</p> <p>Participating faculty: Prof. Dr. H. Arndt, Prof. Dr. M. Bonkowski, apl. Prof. Dr. J. Borchering, Prof. Dr. E. von Elert, PD Dr. K. Lampert, Dr. F. Nitsche, Dr. A. Scherwaß, JProf. Dr. A.-M. Waldvogel</p> <p>Literature:</p> <ul style="list-style-type: none"> • Information on recommended textbooks and other reading material will be given on the ILIAS representation of the course <p>General time schedule: Weeks 1-14: Mon. from 10:00 to 10:45 a.m., Wed. from 10:00 to 11:30 a.m. and Fri. from 12:00 to 12:45 a.m.; Week 15 (Mon-Fri): Preparation for the written examination</p>