

Module Name	Module Code
Principles in Ecology for Environmental Sciences	EMAEF001-01a
Module Coordinator	
Prof. Dr. Tim Diekötter	
Organizer	
Institute for Natural Resource Conservation - Landscape Ecology	
Faculty	
Faculty of Agricultural and Nutritional Sciences	
Examination Office	
Faculty of Agricultural and Nutritional Sciences - Examination Office	

ECTS Credits	6
Evaluation	Graded
Duration	one semester
Frequency	Only takes place during winter semesters
Workload per ECTS Credit	30 hours
Total Workload	180 hours
Contact Time	60 hours
Independent Study	120 hours
Teaching Language	German

Module Courses			
Course Type	Course Name	Compulsory/Optional	SWS
Lecture	Principles in Ecology for Environmental Sciences	Compulsory	2
Practical exercise	Problem-solving in Ecosystem Management	Compulsory	2
Prerequisites for Admission to the Examination(s)			
passed assignments			

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Written Examination: Principles in Ecology for Environmental Sciences	Written Examination	Graded	Compulsory	100
Further Information on the Examination(s)				
1.+2. period in winter semester 1. period in summer semester examiner: Prof. Dr. Diekötter QIS: 71101 with number of Examination 71110				

Course Content
Students will learn the basics of ecological patterns, processes and functions in terrestrial, limnic and marine ecosystems. They will get a basic understanding of the complexity and dynamics of ecosystems. Based on these concepts they will also learn the potentials and limits of ecologically driven management measures.
Learning Outcome
The students know and are able to explain the basic concepts of aut-, dem- and synecology. The students understand dynamics of terrestrial, marine and freshwater ecosystems. The students are able to apply this knowledge to basic ecological management measures.
Reading List
Begon M. Townsend CA. Harper JL (2005) Ecology: From Individuals to Ecosystems. Wiley

Use	Compulsory / Optional	Semester
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Environmental Management, Double-Degree-Agreement with Adam-Mickiewicz-University, Polen (UAM), (Version 2020)	Optional	-
Master, 1-Subject, Environmental Management, Double-Degree-Agreement with Irkutsk State University, Russland (ISU), (Version 2020)	Optional	-
Master, 1-Subject, Environmental Management, (Version 2020)	Optional	-
Master, 1-Subject, Nutritional and Food Science, (Version 2013)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2017)	Optional	-
Master, 1-Subject, Sustainability, Society and the Environment, (Version 2020)	Optional	-