

Module Name	Module Code
Principles of Ecosystem Analysis	AEF-EM011
Module Coordinator	
Dr. rer. nat. Felix Müller	
Organizer	
Institute for Natural Resource Conservation - Ecosystem Management	
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 summer semesters
Workload per ECTS Credit	30 hours
Total Workload	180 hours
Contact Time	60 hours
Independent Study	120 hours
Teaching Language	English

Recommended Requirements			
Basic knowledge in ecological processes and structures			
Module Courses			
Course Type	Course Name	Compulsory/Optional	SWS
Lecture	Basics of Ecosystem Analysis - lecture	Compulsory	1
Exercise	Basics of Ecosystem Analysis, exercises	Compulsory	1
Seminar	Basics of Ecosystem Analysis, seminar	Compulsory	2
Prerequisites for Admission to the Examination(s)			

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Presentation: Principles of Ecosystem Analysis	Seminar Paper	Graded	Compulsory	100
Further Information on the Examination(s)				
1.+2. period in summersemester 1. period in wintersemester examiner: Prof. Dr. Müller QIS: 70100 with number of Examination 70110				

Course Content
Basics of system analysis and ecosystem theory, application of hierarchic indications concepts for representation of fluctuations in and between systems of different scales. Human-environmental interactions are analysed using DPSIR and based on the data of the european environmental agency. The analysis of utilization of natural resources include land-use conflicts between agriculture, environmental protection, urban expansion, water management, tourism etc.
Learning Outcome
Students are familiar with basics of system analysis and are able to analyse complex interactions in human-environmental systems
Reading List
<ul style="list-style-type: none"> - Chapin, F.S., P.A. Matson & H.A. Mooney (2002): Principles of terrestrial ecosystem ecology. New York, Berlin, Heidelberg. - Joergensen S.E. & F. Müller (eds., 2000): Handbook of ecosystem theories and management. Boca Raton. - Odum, H.T. (1983): Systems ecology. New York
Additional Information
Prof. Dr. rer. nat. Felix Müller Fon:+49 431 880-3251 Fax:+49 431 880-4083 E-Mail: fmuller@ecology.uni-kiel.de http://www.ecosystem-management.uni-kiel.de/mitarbeiter/fmueller

Use	Compulsory / Optional	Semester
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2013)	Optional	-
Master, 1-subject, Applied Ecology, (Version 2016)	Optional	-
Master, 1-subject, Applied Ecology, (Version 2015)	Optional	-
Master, 1-subject, Applied Ecology, (Version 2010)	Optional	-
Master, 1-subject, Dairy Science, (Version 2017)	Optional	-
Master, 1-subject, Environmental and Resource Economics, (Version 2014)	Optional	-
Master, 1-subject, Environmental Management, (Version 2017)	Optional	-
Master, 1-subject, Environmental Management, (Version 2013)	Optional	-
Master, 1-subject, Environmental Management - Management of Natural Resources, (Version 2010)	Optional	-
Master, 1-subject, Nutritional and Food Science, (Version 2013)	Optional	-
Master, 1-subject, Nutritional and Consumer Economics, (Version 2017)	Optional	-
Master, 1-subject, Nutritional and Consumer Economics, (Version 2013)	Optional	-
Master, 1-subject, Sustainability, Society and the Environment, (Version 2013)	Optional	-