

Module Name	Module Code
Theory of Ecosystem Dynamics and Decomposing Systems	AEF-EM025
Module Coordinator	
Dr. agr. Wilhelm Windhorst	
Organizer	
Institut für Natur- und Ressourcenschutz - Ökosystemmanagement	
Faculty	
Faculty of Agricultural and Nutritional Sciences	
Examination Office	
Prüfungsamt Agrar- und Ernährungswissenschaftliche Fakultät	

ECTS Credits	6
Evaluation	Graded
Duration	ein 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	English

Module Courses			
Course Type	Course Name	Compul- sory/Optional	SWS
Lecture	Theory of Ecosystem Dynamics and Decomposing Systems	Compulsory	2
Exercise	Theory of Ecosystem Dynamics and Decomposing Systems	Compulsory	2
Prerequisites for Admission to the Examination(s)			

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Written Examination: Theory of Ecosystem Dynamics and Decomposing Systems	Written Examination	Graded	Compulsory	100
Further Information on the Examination(s)				
<p>Last time WS 15/16 1.+2. period in wintersemester 1. period in summersemester</p> <p>examiner: Dr. Windhorst QIS: 87100 with number of Examination 87110</p>				

Course Content
Interaction of production and decomposition in ecosystems, relevance of decomposition for the functioning and resilience of ecosystems, indication of indirect effects of ecosystem uses, comparative analysis of decomposing networks from different ecosystems..
Learning Outcome
Students understand the direct and indirect interactions of biomass production in ecosystems. They are able to identify the key decomposers and to describe their position in the decomposing network, as well as their reactivity on changing constraints. Additionally students will be enabled to understand the relations of decomposition with major environmental challenges like eutrophication or the accumulations or release of toxic substances
Reading List
Literature will be provided during the lectures and through the online teaching platform OLAT.
Additional Information
20 places Enrollment by E-Mail to wwindhorst@ecology.uni-kiel.de : within workdays Monday through Friday in the 1st week of the 2. audit period of the preceding semester. Following information are necessary: matriculation number last name first name degree study program stu-Email
The allocation of the places takes place in the 2nd week of the 2. audit period of the preceding semester. Acceptance of the place by students only through participation at the first day of the course. Students without a place can get a place at the first day of the course by move-up procedure.

Use	Compulsory / Optional	Semester
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2013)	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, Environmental Management, (Version 2013)	Optional	-
Master, 1-subject, Nutritional and Food Science, (Version 2013)	Optional	-
Master, 1-subject, Nutritional and Consumer Economics, (Version 2013)	Optional	-
Master, 1-subject, Sustainability, Society and the Environment, (Version 2013)	Optional	-