

<b>Module Name</b>	<b>Module Code</b>
Ecosystem Development and Ecosystem Protection	AEF-EM033
<b>Module Coordinator</b>	
Dr. rer. nat. Felix Müller	
<b>Organizer</b>	
Institute for Natural Resource Conservation - Ecosystem Management	
<b>Faculty</b>	
Faculty of Agricultural and Nutritional Sciences	
<b>Examination Office</b>	
Faculty of Agricultural and Nutritional Sciences - Examination Office	

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

<b>Module Courses</b>			
<b>Course Type</b>	<b>Course Name</b>	<b>Compul- sory/Optional</b>	<b>SWS</b>
Seminar	Protection of Ecosystems	Compulsory	1
Exercise	Temporal-Spatial conditions	Compulsory	3
<b>Prerequisites for Admission to the Examination(s)</b>			

<b>Examination(s)</b>				
<b>Examination Name</b>	<b>Type of Examination</b>	<b>Evaluation</b>	<b>Compulsory / Optional</b>	<b>Weighting</b>
Oral Examination: Ecosystem Development and Ecosystem Protection	Oral Examination	Graded	Compulsory	100
<b>Further Information on the Examination(s)</b>				
1.+2. period in wintersemester 1. period in summersemester  examiner: Prof. Dr. Müller QIS: 78201 with number of Examination 78220				

<b>Course Content</b>
<p>This Module shows the concept of protection of ecosystems and its realization using helpful indicators and operation concepts. The spatial and temporal challenges of management measures are presented through process studies and international examples. In working groups students develop concepts for the protection of ecosystems, nature and resources. For this, 4D methods of landscape analysis will be applied</p>
<b>Learning Outcome</b>
<p>Students know the ecosystem approach and local, regional and international spatial protection concepts. Participants understand temporal-spatial restrictions that need to be considered when developing spatial protection concepts. Students know national and international protection concepts and are able to work with 4D methods of landscape analysis to define management measures.</p>
<b>Reading List</b>
<p>Costanza, R., B.G. Norton &amp; B.D. Haskell (1993): Ecosystem health. Washington, Samson, F.B. &amp; F.L. Knopf (eds., 1996): Ecosystem management – selected Readings. New York, Heidelberg, Berlin, Vogt, K.A. et al. (1997): Ecosystems – Balancing science with management. New York, Heidelberg, Berlin, Woodley, S., J.J. Kay &amp; G. Francis (1993): Ecological integrity and the management of ecosystems. Ottawa</p>
<b>Additional Information</b>
<p>class size: 25            Enrollment by OLAT 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            striven degree            study program            stu-Email</p> <p>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.</p>

<b>Use</b>	<b>Compulsory / Optional</b>	<b>Semester</b>
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, Dairy Science, (Version 2017)	Optional	-
Master, 1-subject, Ecohydrology, (Version 2011)	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, 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	-