

Module Name	Module Code
Biodiversity and Ecosystem Services	AEF-EM037
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 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	Compulsory/Optional	SWS
Lecture	Biodiversity and Ecosystem Services	Compulsory	2
Seminar	Biodiversity and Ecosystem Services	Compulsory	2

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Seminar Paper with Assignment: Biodiversity and Ecosystem Services	Seminar Course-work	Graded	Compulsory	100
Further Information on the Examination(s)				
1.+2. period in wintersemester 1. period in summersemester examiner: Prof. Dr. Müller and Prof. Dr. Ott QIS: 78700 with number of Examination 78710				

Course Content
<p>This module introduces a crucial concept in nature conservation: “biological diversity”, and a method to assess the contributions of natural environments to human welfare: the “ecosystem service approach”. Concept and method have a background in environmental ethics and many connections to scientific biology and ecology. From the environmental ethical perspective, the module analyses (1) concept of biological diversity and the main objectives of the Convention on Biological Diversity (a) protection, (b) sustainable use, (c) fair access and (d) benefit sharing. It furthermore analyses (2) the different values within the ecosystem services approach with a special eye on the cultural services.</p> <p>The environmental focus will be put on the methodology of ecosystem service assessments, the basic components and features of the concept, its limitations and potentials, strengths and weaknesses and critical attitudes. The applicability in management will be demonstrated by case studies.</p>
Learning Outcome
<p>Students learn to comprehend and critically reflect the relations between biodiversity and ecosystem services. They learn to work with concept and method as devices in sustainability science and nature conservation. The module is methodically oriented.</p>
Reading List
<p>TEEB (2010): The Economics of ecosystems and biodiversity Grunewald; K. and O. Bastian (2013): Ökosystemdienstleistungen. Springer-Verlag Jax, K. et al. (2013): Ecosystem services and ethics. Ecological Economics. Ott, K. (2010): Umweltethik zur Einführung, Hamburg.</p>
Additional Information
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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, 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, 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, Philosophy of Economics and Environmental Ethics, (Version 2015)	Optional	-
Master, 1-subject, Sustainability, Society and the Environment, (Version 2013)	Optional	-