Module Name	Module Code
Eco-Efficiency of Dairy Systems	AEF-ds002
Module Coordinator	
Prof. Dr. Friedhelm Taube	
Organizer	
Institute of Crop Science and Plant Breeding - Grass and Forage Sciences	
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

Recommended Requirements
Skills in forage production and the ability to evaluate different production systems in terms of yield formation, forage quality and environmental effects.

Module Courses

Course Type	Course Name	Compulsory/Optional	SWS
Lecture	Eco-Efficiency of Dairy Systems	Compulsory	2
Seminar	Eco-Efficiency of Dairy Systems	Compulsory	1
Exercise	Eco-Efficiency of Dairy Systems	Compulsory	1

Prerequisits for Admission to the Examination(s)
Prerequisites for admission to oral examination are a passed seminar presentation (grade: pass/fail).

Examination(s)				
Examination Name	**Type of Examination**	**Evaluation**	**Compulsory / Optional**	**Weighting**
Oral Examination: Eco-Efficiency of Dairy Systems	Oral Examination	Graded	Compulsory	100

Further Information on the Examination(s)

1.+2. period in winter semester
1. period in summer semester
examiner: Dr. Reinsch
QIS: 300300 with examination 300310

Course Content

System analysis of forage based land-use systems, methodical derivations to quantify environmental effects per production unit (“ecological footprint”), practical exercises in ecosystem accounting and live cycle analysis (LCA) of different production systems.

Learning Outcome

Students achieve knowledge to identify and quantify relationships and causal links of environmental effects of different forage production systems. Further, students achieve skills to conduct a product-oriented live cycle analysis (LCA) with established methods on their own.

Reading List

Further details are given at the beginning of the lecture

Additional Information

Students who attended module AEF-agr837 must not attend module AEF-ds002
Enrollment by OLAT in the 1st week of the 2. audit period of the preceding semester. The following information has to be provided for enrollment:
matriculation number
last name
first name
striven degree
study program
stu-Email
Further organizational issues will be announced during the first lecture.

Use	Compulsory / Optional	Semester
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2013)	Optional	1.
Master, 1-subject, Dairy Science, (Version 2017)	Compulsory	1.
Master, 1-subject, Nutritional and Food Science, (Version 2013)	Optional	1.
Master, 1-subject, Nutritional and Consumer Economics, (Version 2017)	Optional	1.
Master, 1-subject, Nutritional and Consumer Economics, (Version 2013)	Optional	1.