Goorg-August-Universität Göttingen		60
		4 WLH
Universität Kassel/Witzenhausen		
Module M.SIA.A13M: Livestock-based sus	stainable land use	
Learning outcome, core skills: To understand the interactions of livestock with the na and management specific positive or negative environ To get acquainted with and test methodological appro livestock-environment interactions; To learn about simple modelling approaches and the s	itural resource base and their site- imental impacts; aches used in field research on significance of their results.	Workload: Attendance time: 56 h Self-study time: 124 h
Course: Livestock-based sustainable land use (Le <i>Contents</i> : This module highlights the general positive and negatil livestock management on the natural resources (air, w under (sub)tropical conditions, at the plot to the waters for sustainable livestock-based land use, thereby build animals on soils and plants. Management options for effects of livestock (gaseous emissions, nutrient excre	4 WLH	
 possibilities for consolidating the interests of livestock keepers with international conventions are discussed. The students are introduced, in lectures, own reading and practical field tests to up-to-date quantitative and qualitative methods that are used in studies on animal-environment interactions. Simple modelling approaches that depict animal-environment interactions at the plot level up to the watershed scale are presented and tested by the participants. Steinfeld, H., Gerber, P., Wassenaar, T., Castel, V., Rosales, M., de Haan, C. 2006: Livestock's long shadow. Fao, Rome, Italy; Specific scientific articles, distributed in the course 		
Examination: Written examination (90 minutes) M.SIA.A13M.Mp: Livestock-based sustainable land use Examination requirements: Influences of animal husbandry / the individual animal on its environment: soil fertility and soil erosion, pasture vegetation, nutrient transfers, greenhouse gas emissions; livestock keeping versus nature conservation; methods for assessing quality and quantity of pasture vegetation; methods to determine the animal's behavior at pasture and its feed intake.		6 C
Admission requirements:	ecommended previous knowledge: asic knowledge (B.Sc. level) of soil, plant and nimal sciences	
Language: English	Person responsible for module: Prof. Dr. Eva Schlecht	

Duration:

each summer semester; Witzenhausen	1 semester[s]	
Number of repeat examinations permitted: twice	Recommended semester:	
Maximum number of students: not limited		
Additional notes and regulations: Literature:		
Steinfeld, H., Gerber, P., Wassenaar, T., Castel, V., Rosales, M., de Haan, C. 2006: Livestock's long shadow. Fao, Rome, Italy; Specific scientific articles, distributed in the course.		