

Module Name		Module Code	
Optimal Natural Resource Use in a Warming World		agrarAEF888-01a	
Module Coordinator			
Prof. Dr. Marie-Catherine Riekhof			
Organizer			
Institute of Agricultural Economics – Political Economy of resource management with a focus on marine and coastal resources			
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 summer semesters		
Workload per ECTS Credit	30 hours		
Total Workload	180 hours		
Contact Time	60 hours		
Independent Study	120 hours		
Teaching Language	English		
Recommended Requirements			
Introduction into Economics, Environmental Economics (AEF-eg006),			
Module Courses			
Course Type	Course Name	Compulsory/Optional	SWS
Practical exercise	Optimal natural resource use in a warming world	Compulsory	4
Seminar - additional	Topics in Natural Resource Use	Optional	2*
Prerequisites for Admission to the Examination(s)			

Examination(s)

Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Optional Natural Resource Use in Warming World	Seminarpaper with Assignment	Graded	Compulsory	100

Further Information on the Examination(s)

1. + 2. period in summer semester
1. period in winter semester

QIS: 140900 with number of Examination 140910

Course Content

The course will be organized around a semester topic. Within this topic, students will work on an own project to apply the different steps to do a research project.

The course has 2 parts: In the first part, the impacts from global warming on the natural resource covered by the semester topic is given, economic considerations are presented and programming is introduced. The second part focuses on the presentation of model output, sensitivity analysis and interpretation of results in the consideration of the semester topic.

Learning Outcome

Students will

- 1) Improve their abilities to formulate research questions
- 2) have a better understanding of the impact of global warming on natural resources and their management
- 3) be able to apply basic numerical models and visualize outputs
- 4) improve (practice and further develop) presentation skills
- 5) gain insights into current scientific debates through participating in the weekly seminar "Topics in Natural Resource Use"

Reading List

For a first introduction into the topic see:

Conrad (2010): Resource Economics

De Lara and Doyen (2008): Sustainable Management of Natural Resources

Clark (1990): Mathematical Bioeconomics – The optimal management of renewable resources

A list with further recommended reading will be distributed at the beginning of the course.

Additional Information

The number of participants is limited to 20.

Enrollment by OLAT within workdays Monday through Friday in the 1nd week of the 2. audit period of the preceding semester. Following information is necessary:

matriculation number

last name

first name

striven 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.

Students who successfully participated in "Environmental Economics" will be preferred.

Use	Compulsory / Optional	Semester
Master, 1-subject, Agricultural Sciences, Master, 1-subject, Nutritional and Food Science Master, 1-subject, Nutritional and Consumer Economics Master Environmental Management – in Klärung Dairy Sciences	Optional	-