

Module Name	3.2.2 Ecosystem Protection & Spatial Concepts to Manage Natural Resources
Identification code	AEF303, EM3.2.1, EH-CAU401 (QIS-registration for examination) 78200
Subtitle	
Courses embedded	
Term	Winter
Coordinator	Prof. Dr. F. Müller
Teachers	Marion Kandziora
Tuition language	English
Programme involvement	Elective MSc Environmental Management Obligatory MSc Ecohydrology
Teaching form, contact time per week class size	Seminar "The Ecosystem Approach and Spatial Concepts to Manage Natural Resources" (60h/180h) 25
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	
Learning outcomes	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.
Content	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
Assessment	Oral exam 100%
Teaching media	Presentations, discussions, group work, computer exercises, case studies
References	Costanza, R., B.G. Norton & B.D. Haskell (1993): Ecosystem health. Washington, Samson, F.B. & 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 & G. Francis (1993): Ecological integrity and the management of ecosystems. Ottawa
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