

Module Name	1.1 Principles in Ecology for Environmental Sciences
Identification codes	AEF277, EM1.1 Modulnummer für die Anmeldung in QIS 71100
Subtitle	
Courses embedded	
Term	Winter
Coordinator	Prof. Dr. H. Roweck
Teachers	General basics: Prof. Dr. H. Roweck Ecology of the Wadden Seas: Prof. Dr. K. Reise Marine ecology: PD Dr. S. Garthe
Tuition language	Englisch
Programme involvement	Elective MSc Environmental Management
Teaching form, contact time per week	Basics in Ecology for Environmental Sciences: formal lecture 30 h/90 h Coastal Ecology: excursion/field work 15 h/45 h Marine Ecology: formal lecture 15 h/45 h
class size	25
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	
Learning outcomes	Students are introduced to basic phenomena of ecology as a basis for an understanding of the important biotic processes of terrestrial, limnic and marine ecosystems; an understanding of the complexity and sensibility as well as the dynamics and changability of ecosystems. This allows a first assessment of the possibilities and limits of management measures.
Content	This module enables a basic understanding of ecological processes. This includes: general structures and functions of ecosystems, basics of aut-, syn- and demecology, dynamics of ecosystems, inter- and intraspecific relationships between organisms, possibilities and limits of influences on ecological systems, landuses in the context of their ecological effects. The module deals with terrestrial, limnic and marine ecosystems
Assessment	Written exam (100 %)
Teaching media	Presentations
References	Ryden et al.: Environmental science (Baltic University Press) Begon, Harper, Townsend: ecology (Spektrum), Schäfer: Wörterbuch der Ökologie (G. Fischer)
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