

module code / module title

FunctEcol / Functional Ecology: From Biodiversity Patterns to Ecosystem Functioning

date / version of the module description

25.05.2022

1	INFORMATION ON THE MODULE			
1a	module code	FunctEcol		
1b	module title (German title)	Funktionelle Ökologie: die Verknüpfung von Biodiversitätsmustern mit Funktionen von Ökosystemen		
1c	module title (English title)	Functional Ecology: From Biodiversity Patterns to Ecosystem Functioning		
1d	credit points	6		
1e	responsible for the module	Dr. Marlis Reich		
1 f	type of module	elective module		
1g	programs using the module	Ecology (M.Sc.)		
1h	organizational unit offering the module	Klicken Sie hier, um Text einzugeben.		
1 i	content-related prior knowledge or skills	Prior completion of the module Molecular Techniques of Ecology is recommended.		
		Evolution and function of (marine) organisms		
		Ecological processes driving patterns of functional diversity		
1j	learning contents	 Genetics, variability and the relevance thereof to understand ecological processes Principles of "omics" approaches: genomics, transcriptomics, proteomics 		
		 Environmental genomics: taxa- and community-centered approaches 		
		Computational biology: resources, pipelines, databases		

1k	learning outcomes/ competencies/ targeted competencies	Students will be able to evaluate which computational sources need to be used to decipher the biogeography of species and their functional traits from different -omic datasets. Students will be able to critically evaluate publications based on omic datasets, present them in an understandable way, and use their knowledge to discuss their own opinions with others.						
	calculation of student workload (part a: calculation of presence time and working hours)	The total amount of the presence time and working hours of the module has to be calculated additionally in the detailed calculation a) to c). a) detailed calculation: SWS / presence time/working hours in each course of the module						
		⊠ 1	lecture(s) with	2	SWS/ contact hours	hours of presence time		
		⊠ 1	seminar(s) with	1	SWS/ contact hours	hours of presence time		
		⊠ 1	exercise(s) with	2	SWS/ contact hours	hours of presence time		
			internship(s) with		sum of working hours			
41			□ seminar(s) with		SWS/ contact hours	total hours of presence time		
11			laboratory/laboratories with		SWS/ contact hours	total hours of presence time		
			tutorial(s) with		SWS/ contact hours			
			excursion(s) with		SWS contact hours in total	working hours		
		□ other form of course (e.g. block seminar), namely this:						
		Klicken Sie hier, um Text einzugeben.						
		with	SWS / with totaly		contact prese	ence time		
		= sum of presence time and working hours:						
		70						
	calculation of student workload	b) working hours for preparation/follow-up work of the course(s) and/or self-study = sum of working hours:						
	(part b: preparation time and follow-up work/self-study)	30						

	calculation of student workload (part c: exam preparation etc.)	c) exam preparation (incl. examination) = sum of working hours: 80					
	calculation of student workload (total amount of hours including a) - c))	Total amount of the presence time and working hours a) to c): 180					
1m	description of possible optional courses in the module	Can a student choose between different courses within the module? NO Short description of selection option Klicken Sie hier, um Text einzugeben.					
1 n	language(s) of instruction	 □ German □ Spanish □ French □ Other, namely this: Klicken Sie hier, um Text einzugeben. 					
10	frequency	(regular cycle module is offered) e.g.: winter semester, yearly or summer semester, yearly or each semester winter semester yearly Klicken Sie hier, um Text einzugeben.					
1p	duration	Other, namely this: Three weeks (including the examination)					
1q	Literature (optional)	Klicken Sie hier, um Text einzugeben.					
1r	more information on the module (optional)	Instructors: Dr. Marlis Reich, Dr. Rolf Nimzyk					
2	INFORMATION ON THE M	MODULE EXAMINATION (see also AT Art. 5 section 8)					
2a	type of examination	 □ module exam; i.e. exam with only one component (MP) □ combination exam, i.e. exam with several components (administered by instructors) (KP) □ partial exam; i.e. exam with several components (administered by registrar) (TP) 					
2b	exam components or prerequisites (type, number)						

		PL = Presentation, ora	al, SL = Assignment			
	Give this information for combination examinations only: Weights (in percentage) of component grades	PL 1:				
2c		PL 2:				
		PL 3: Klicken Sie hier, um Text einzugeben.				
		PL 4: Klicken Sie hier, um Text einzugeben.				
		If necessary, further comments:				
		Klicken Sie hier, um T	Text einzugeben.			
	form of examination (see AT BPO/AT MPO Art. 8, 9 and 10)		☐ Oral examination (single)	\boxtimes	Presentation, oral	
		☐ Written examination	☐ Group examination, oral		Presentation and written assignment	
2d		☐ Portfolio☐ Internship report	□ Project report□ Colloquium		Bachelor Thesis Master Thesis	
20			tion is given in the examination regulations):	_	Waster Triesis	
		Klicken Sie hier, um Text einzugeben.				
2e	language(s) of instruction	☐ German ⊠	□ English □ Spanish		French	
		☐ Other, namely this:				
		Klicken Sie hier, um	Text einzugeben.			