

module code /
module title

CommEcol / Community Ecology

date / version of the module
description 25.05.2022

1 INFORMATION ON THE MODULE	
1a	module code CommEcol
1b	module title (German title) Gemeinschaftsökologie
1c	module title (English title) Community Ecology
1d	credit points 9
1e	responsible for the module Prof. Dr. Martin Diekmann
1f	type of module compulsory module
1g	programs using the module M.Sc. Ecology
1h	organizational unit offering the module Klicken Sie hier, um Text einzugeben.
1i	content-related prior knowledge or skills
1j	learning contents <ul style="list-style-type: none"> • The nature of ecological communities • Interactions between vegetation and abiotic / biotic factors • Ecological niches and indicator values • Plant growth forms, life forms and strategies • Plant species diversity at different spatial scales • Human impact on vegetation and management • Sustainable strategies for the preservation of biodiversity, species conservation under global change, identification of target species

		<ul style="list-style-type: none"> • Tools of vegetation sampling and analysis of environmental data • Plant identification • Basics of multivariate statistical analyses, data transformation • Ordination: CA, DCA, CCA, PCA, RDA, NMDS • Classification. cluster analysis, TWINSpan 																																																								
1k	learning outcomes/ competencies/ targeted competencies	<ul style="list-style-type: none"> • The students have a basic understanding of the variety of species assemblages, especially of the theoretical concept and real differentiation of plant communities • They can link the variation of plant communities to the variation of abiotic environmental factors and human impact • They understand the importance of adaptations and ecological traits for the structure of ecological communities • Students have an overview of different ecosystem services of communities, species conservation and environmental protection to safeguard a sustainable future • They are able to sample field data on the species composition and environment of communities and to analyse these statistically by means of multivariate techniques 																																																								
1l	calculation of student workload (part a: calculation of presence time and working hours)	<p>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).</p> <p>a) detailed calculation: SWS / presence time/working hours in each course of the module</p> <table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>1</td> <td>lecture(s) with</td> <td>1</td> <td>SWS/ contact hours</td> <td>14</td> <td>hours of presence time</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>1</td> <td>seminar(s) with</td> <td>2</td> <td>SWS/ contact hours</td> <td>28</td> <td>hours of presence time</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>1</td> <td>exercise(s) with</td> <td>1</td> <td>SWS/ contact hours</td> <td>14</td> <td>hours of presence time</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>internship(s) with</td> <td></td> <td>sum of working hours</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>seminar(s) with</td> <td></td> <td>SWS/ contact hours</td> <td></td> <td>total hours of presence time</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>laboratory/laboratories with</td> <td></td> <td>SWS/ contact hours</td> <td></td> <td>total hours of presence time</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>tutorial(s) with</td> <td></td> <td>SWS/ contact hours</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>1</td> <td>excursion(s) with</td> <td>2</td> <td>SWS contact hours in total</td> <td>28</td> <td>working hours</td> </tr> </table>	<input checked="" type="checkbox"/>	1	lecture(s) with	1	SWS/ contact hours	14	hours of presence time	<input checked="" type="checkbox"/>	1	seminar(s) with	2	SWS/ contact hours	28	hours of presence time	<input checked="" type="checkbox"/>	1	exercise(s) with	1	SWS/ contact hours	14	hours of presence time	<input type="checkbox"/>		internship(s) with		sum of working hours			<input type="checkbox"/>		seminar(s) with		SWS/ contact hours		total hours of presence time	<input type="checkbox"/>		laboratory/laboratories with		SWS/ contact hours		total hours of presence time	<input type="checkbox"/>		tutorial(s) with		SWS/ contact hours			<input checked="" type="checkbox"/>	1	excursion(s) with	2	SWS contact hours in total	28	working hours
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		<input type="checkbox"/> other form of course (e.g. block seminar), namely this: Klicken Sie hier, um Text einzugeben. with <input type="checkbox"/> SWS / with totally <input type="checkbox"/> contact hours <input type="checkbox"/> presence time <input type="checkbox"/> working hours = sum of presence time and working hours: 84
	calculation of student workload <i>(part b: preparation time and follow-up work/self-study)</i>	b) working hours for preparation/follow-up work of the course(s) and/or self-study = sum of working hours: <ul style="list-style-type: none"> • Lecture: 14 hours • Seminar: 58 hours • Exercises: 14 hours 86 hours in total
	calculation of student workload <i>(part c: exam preparation etc.)</i>	c) exam preparation (incl. examination) = sum of working hours: 100 hours
	calculation of student workload <i>(total amount of hours including a) - c))</i>	Total amount of the presence time and working hours a) to c): 270 hours
1m	description of possible optional courses in the module	<u>Can a student choose between different courses within the module?</u> NO <u>Short description of selection option</u> Klicken Sie hier, um Text einzugeben.
1n	language(s) of instruction	<input type="checkbox"/> German <input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> French <input type="checkbox"/> Other, namely this: Klicken Sie hier, um Text einzugeben.
1o	frequency	<i>(regular cycle module is offered) e.g.: winter semester, yearly or summer semester, yearly or each semester</i> summer semester yearly Klicken Sie hier, um Text einzugeben.

1p	duration	choose an option four weeks (including the examination)
1q	Literature (optional)	Klicken Sie hier, um Text einzugeben.
1r	more information on the module (optional)	Instructors: Martin Diekmann, Maike Isermann, Marlis Reich
2	INFORMATION ON THE MODULE EXAMINATION (see also AT Art. 5 section 8)	
2a	type of examination	<input type="checkbox"/> module exam; i.e. exam with only one component (MP) <input checked="" type="checkbox"/> combination exam, i.e. exam with several components (administered by instructors) (KP) <input type="checkbox"/> partial exam; i.e. exam with several components (administered by registrar) (TP)
2b	exam components or prerequisites (type, number)	<i>PL = graded component of the examination</i> <i>SL = ungraded component of the examination, coursework</i> <i>PVL = prerequisite of the examination (see AT Art. 5 Section 10)</i> <input checked="" type="checkbox"/> PL 1 <input checked="" type="checkbox"/> SL 1 <input type="checkbox"/> PVL justification If necessary, further explanations: PL = Project group report, SL = oral presentation
2c	Give this information for combination examinations only: Weights (in percentage) of component grades	PL 1: Klicken Sie hier, um Text einzugeben. PL 2: Klicken Sie hier, um Text einzugeben. PL 3: Klicken Sie hier, um Text einzugeben. PL 4: Klicken Sie hier, um Text einzugeben. If necessary, further comments: Klicken Sie hier, um Text einzugeben.
2d	form of examination (see AT BPO/AT MPO Art. 8, 9 and 10)	<input type="checkbox"/> Assignment <input type="checkbox"/> Oral examination (single) <input checked="" type="checkbox"/> Presentation, oral <input type="checkbox"/> Written examination <input type="checkbox"/> Group examination, oral <input type="checkbox"/> Presentation and written assignment <input type="checkbox"/> Portfolio <input checked="" type="checkbox"/> Project report <input type="checkbox"/> Bachelor Thesis <input type="checkbox"/> Internship report <input type="checkbox"/> Colloquium <input type="checkbox"/> Master Thesis <input type="checkbox"/> Other (concrete definition is given in the examination regulations): Klicken Sie hier, um Text einzugeben.
2e	language(s) of instruction	<input type="checkbox"/> German <input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> French <input type="checkbox"/> Other, namely this: Klicken Sie hier, um Text einzugeben.

