

module code /
module title

PopEcol / Population Ecology

date / version of the module
description 25.05.22

1 INFORMATION ON THE MODULE

1a	module code	PopEcol
1b	module title (German title)	Populationsökologie
1c	module title (English title)	Population Ecology
1d	credit points	9
1e	responsible for the module	Prof. Dr. Thomas Hoffmeister
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	knowledge about concepts in population ecology at the Bachelor's level is expected
1j	learning contents	<ul style="list-style-type: none"> - Factors of demography: life cycles and life tables, survivorship curves - Distribution and dispersal - Methods in the estimation of population size - Population genetics (genetic variation and population genetics, inbreeding, outbreeding and asexual reproduction, evolutionary and ecological genetics) - Population growth, intraspecific competition, density dependence, self-thinning and population dynamics - Interspecific competition, species interactions and models of interspecific competition, apparent competition - Niche differentiation and partitioning, temporal and spatial aggregation and coexistence

		<ul style="list-style-type: none"> - Predator-prey systems, food choice, functional responses, population cycles and models - Demographic models, regional dynamics, metapopulations - Invasive species - Nature conservation and population viability analysis 																																																																															
1k	learning outcomes/ competencies/ targeted competencies	Students have a sound knowledge about important concepts in population ecology, can explain such concepts and can plan and conduct experimental investigations based on these concepts. Based on this, they can formulate research hypotheses, gather appropriate data, analyze and present them.																																																																															
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>1,6</td> <td>SWS/ contact hours</td> <td>22</td> <td>hours of presence time</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>1</td> <td>seminar(s) with</td> <td>0,4</td> <td>SWS/ contact hours</td> <td>6</td> <td>hours of presence time</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>exercise(s) with</td> <td></td> <td>SWS/ contact hours</td> <td></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 checked="" type="checkbox"/></td> <td>1</td> <td>laboratory/laboratories with</td> <td>4</td> <td>SWS/ contact hours</td> <td>56</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 type="checkbox"/></td> <td></td> <td>excursion(s) with</td> <td></td> <td>SWS contact hours in total</td> <td></td> <td>working hours</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td colspan="5">other form of course (e.g. block seminar), namely this:</td> <td></td> </tr> <tr> <td></td> <td></td> <td colspan="5">Klicken Sie hier, um Text einzugeben.</td> <td></td> </tr> <tr> <td></td> <td></td> <td>with</td> <td>SWS / with totaly</td> <td>contact hours</td> <td><input type="checkbox"/> presence time</td> <td><input type="checkbox"/> working hours</td> </tr> </table>	<input checked="" type="checkbox"/>	1	lecture(s) with	1,6	SWS/ contact hours	22	hours of presence time	<input checked="" type="checkbox"/>	1	seminar(s) with	0,4	SWS/ contact hours	6	hours of presence time	<input type="checkbox"/>		exercise(s) with		SWS/ contact hours		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 checked="" type="checkbox"/>	1	laboratory/laboratories with	4	SWS/ contact hours	56	total hours of presence time	<input type="checkbox"/>		tutorial(s) with		SWS/ contact hours			<input type="checkbox"/>		excursion(s) with		SWS contact hours in total		working hours	<input type="checkbox"/>		other form of course (e.g. block seminar), namely this:								Klicken Sie hier, um Text einzugeben.								with	SWS / with totaly	contact hours	<input type="checkbox"/> presence time	<input type="checkbox"/> working hours
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		<p>= sum of presence time and working hours:</p> <p>84</p>
	<p>calculation of student workload</p> <p>(part b: preparation time and follow-up work/self-study)</p>	<p>b) working hours for preparation/follow-up work of the course(s) and/or self-study</p> <p>= sum of working hours:</p> <p>144</p>
	<p>calculation of student workload</p> <p>(part c: exam preparation etc.)</p>	<p>c) exam preparation (incl. examination)</p> <p>= sum of working hours:</p> <p>42</p>
	<p>calculation of student workload</p> <p>(total amount of hours including a) - c))</p>	<p>Total amount of the presence time and working hours a) to c):</p> <p>270</p>
1m	<p>description of possible optional courses in the module</p>	<p><u>Can a student choose between different courses within the module?</u></p> <p>NO</p> <p><u>Short description of selection option</u></p> <p>Klicken Sie hier, um Text einzugeben.</p>
1n	<p>language(s) of instruction</p>	<p><input type="checkbox"/> German <input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> French</p> <p><input type="checkbox"/> Other, namely this:</p> <p>Klicken Sie hier, um Text einzugeben.</p>
1o	<p>frequency</p>	<p>(regular cycle module is offered) e.g.: winter semester, yearly or summer semester, yearly or each semester</p> <p>summer semester yearly</p> <p>Klicken Sie hier, um Text einzugeben.</p>
1p	<p>duration</p>	<p>Other, namely this:</p> <p>4 weeks block course (including the examination)</p>
1q	<p>Literature (optional)</p>	<p>Klicken Sie hier, um Text einzugeben.</p>

1r	more information on the module (<i>optional</i>)	Instructors: Thomas Hoffmeister, Marko Rohlf, Martin Diekmann
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 (<i>type, number</i>)	<p><i>PL</i> = graded component of the examination <i>SL</i> = ungraded component of the examination, coursework <i>PVL</i> = prerequisite of the examination (see AT Art. 5 Section 10)</p> <input checked="" type="checkbox"/> PL 1 <input checked="" type="checkbox"/> SL 1 <input type="checkbox"/> PVL justification
2c	Give this information for combination examinations only: Weights (in percentage) of component grades	<p>PL 1: 100%</p> <p>PL 2: Klicken Sie hier, um Text einzugeben.</p> <p>PL 3: Klicken Sie hier, um Text einzugeben.</p> <p>PL 4: Klicken Sie hier, um Text einzugeben.</p> <p>If necessary, further comments: Klicken Sie hier, um Text einzugeben.</p>
2d	form of examination (see AT BPO/AT MPO Art. 8, 9 and 10)	<input type="checkbox"/> Assignment <input checked="" type="checkbox"/> Oral examination (single) <input checked="" type="checkbox"/> Presentation, oral <input checked="" type="checkbox"/> Written examination <input type="checkbox"/> Group examination, oral <input type="checkbox"/> Presentation and written assignment <input type="checkbox"/> Portfolio <input 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):
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.