

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Biology as vertieft studiertes Fach (studied with a focus on the scientific discipline) with the degree "Erste Staatsprüfung für das Lehramt an Gymnasien"

Responsible: Faculty of Biology

Examination regulations version: 2009

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V**

= lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB**

= list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB:

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures:

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

LASP02009

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

07-Aug-2012 (2012-89)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	Module title	Module title											
	ECTS		Duration	(in semesters)	Method of grading		Module level						
	Courses		To be spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y									
	Method of as	ssessm	ent										
	Only after su completion of		ıl if applica	if applicable									
	Other prereq	uisites	if applica	if applicable									
	Participants on of places		ocati- if applica	if applicable									
	Additional in	format	ion if applica	if applicable									
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)									

Scientific Discipli	Scientific Discipline (92 ECTS credits)											
Compulsory Cours	ses (92 ECTS cred	lits)										
07-LA-BIO1-092-	Basics of Biolo	gy - Cyto	logy ar	nd Anatomy								
mo1	ECTS 11	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		•	07-LA-BIO1-1-121: \ 07-LA-BIO1-2-121:	V + Ü (no information V + Ü (no information	. Information on courses wi on SWS (weekly contact ho on SWS (weekly contact ho on SWS (weekly contact ho	ours) and course lan	guage available)				
	Method of ass	essment	stated Asses	d otherwise, succes	sful completion of the omponent o7-LA-BIO:	e module will require succe	ssful completion of	s as specified below. Unless all individual assessments. , Practice) Structure and Function				
			Asses tice)	written examination other prerequisite ses (weekly cours reason; fortnightly ses (required percadmission prerequisiment in module controlled)	es: a maximum of on courses: one incider entage as specified a usite to assessment.	nisite to assessment: regula e incident of unexcused ab at of unexcused absence) an at the beginning of the cour u-2-121: The Plant Kingdom	osence and one exc nd successful comp rse). The preparation	rcises, seminars and lab courused absence for a legitimate letion of the respective exercinof logs (10 to 15 pages) is an The Plant Kingdom (Lecture, Prac-				
			Asses	written examination other prerequisite ses (weekly cours reason; fortnightly ses (required peroadmission prerequisiment in module controlled)	es: a maximum of on courses: one incider entage as specified a uisite to assessment.	isite to assessment: regula e incident of unexcused ab it of unexcused absence) an it the beginning of the cour	osence and one exc nd successful comp rse). The preparation	rcises, seminars and lab cour- used absence for a legitimate letion of the respective exerci- n of logs (10 to 15 pages) is an The Animal Kindom (Lecture,				
			 Practice) 4 ECTS, Method of grading: numerical grade written examination (approx. 30 to 60 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab co ses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitima reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is admission prerequisite to assessment. 									
	other prerequi	sites	By wa	y of exception, add	itional prerequisites	are listed in the section on a	assessments.					
	Referred to in I	PO I	§ 41 (1) 1. Biologie "Zytologie, Anatomie, Formenkenntnis und Systematik von Pflanzen und Tieren" § 41 (1) 2. "Physiologie der Pflanzen und Tiere" § 61 (1) 1. Biologie "Zytologie, Anatomie, Formenkenntnis und Systematik von Pflanzen und Tieren"									

07-LA-EVO-092-	Evolution													
mo1	ECTS 1	Duration	n	1 semester	Method of gradin	g (not) successfully	completed	Modul level	undergraduate					
	Courses		V + Ü (ı	no information o	n SWS (weekly conta	ct hours) and course l	anguage av	ailable)						
	Method of ass	essment	written	written examination (approx. 30 minutes)										
	other prerequi		mum o dent of beginn	Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maxinum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the reginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.										
	Referred to in I		§ 41 (1) § 61 (1)) 4. Biologie "Öko) 4. Biologie "Öko	ologie", "Evolutionsb ologie", "Evolutionsb	iologie" und "Verhalte iologie" und "Verhalte	nsbiologie" nsbiologie"		.,					
o7-GY-MI-	Basic Microbio	ology												
Bl1-092-m01	ECTS 4	Duratio	n	1 semester	Method of gradin	g numerical grade		Modul level	undergraduate					
	Courses		•	his module comprises 2 module components. Information on courses will be listed separately for each module component. o7-LA-MIBI1-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-GY-MIBI1-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Method of ass	essment	Assess biology • • • • • • • • • • • • • • • • • • •	sment in module y (Lecture, Practic 1 ECTS, Method of logs (10 to 15 pag Other prerequisi ses (weekly cour reason; fortnight ses (required pe admission prerecesment in module yotes (Lecture, Prage of the prerequisi ses (weekly cour reason; fortnight ses (weekly cour reason; fortnight ses (required pe	component o7-LA-M ce) of grading: (not) succe ges) tes: Admission prere rses: a maximum of tly courses: one incid rcentage as specified quisite to assessmen component o7-GY-M ractice) of grading: numerica tion (30 to 60 minute tes: Admission prere rses: a maximum of tly courses: one incid	the module will requir IBI1-1-092: Introduction ressfully completed quisite to assessment one incident of unexcused absord at the beginning of the complete	e successfu on to Microb en to Microb ence absen ence) and s he course). siology of Pi ence absen ence) and s	tendance of exuccessful completion of exuccessful completion of exuccessful complete of exuccessful co	ts as specified below. Unless fall individual assessments. e, Practice) Introduction to Micro- ercises, seminars and lab courcused absence for a legitimate pletion of the respective exercion of logs (10 to 15 pages) is an ecture, Practice) Basic Physiology of ercises, seminars and lab courcused absence for a legitimate pletion of the respective exercion of logs (10 to 15 pages) is an					
	other prerequi	sites	_	<u> </u>	<u> </u>	es are listed in the sect	tion on asse	essments.	_					
	Referred to in I		§ 41 (1) 3. "Genetik oder Mikrobiologie" § 61 (1) 3. Biologie "Genetik und Mikrobiologie"											

07-LA-PHY1-092-	Basic P	Basic Physiology I											
mo1	ECTS	4	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	of ass	essment	writte	written examination (approx. 30 to 60 minutes)								
	other p	rerequi	sites	mum dent d	Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.								
	Referre	d to in I		§ 41 (§ 61 (3 41 (1) 2. "Physiologie der Pflanzen und Tiere" 3 61 (1) 2. Biologie "Physiologie der Pflanzen und Tiere"								
07-LA-PHY2-092-	Basic Physiology II												
mo1	ECTS 4 Duratio			1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	Method of assessment			n examination (a _l	pprox. 30 to 60 minutes)							
	other p	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.								
	Referre	Referred to in LPO I			§ 41 (1) 2. "Physiologie der Pflanzen und Tiere" § 61 (1) 2. Biologie "Physiologie der Pflanzen und Tiere"								
07-GY-ETHO-092-	Behavi	oural Bi	iology										
mo1	ECTS	2	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S				on SWS (weekly contact hours) and course language	e available)						
	Method	d of ass	essment	writte	n examination (a _l	pprox. 30 minutes)							
С	other p	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.								
	Referre			§ 61 (1) 4. Biologie "Ökologie", "Evolutionsbiologie" und "Verhaltensbiologie"									

07-GY-OE-	Plant and Animal Ecolog	gy (Lecture, Practice)							
KO-092-m01	ECTS 6 Duratio	n 1 semester Method of grading numerical grade Modul level undergraduate							
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-GY-OEKO-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-GY-OEKO-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
		 Assessment in module component o7-GY-OEKO-1-092: Animal Ecology Animal Ecology 3 ECTS, Method of grading: numerical grade written examination (30 to 60 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. Assessment in module component o7-GY-OEKO-2-092: Plant Ecology Plant Ecology 3 ECTS, Method of grading: numerical grade written examination (30 to 60 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. 							
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							
	Referred to in LPO I	§ 61 (1) 4. Biologie "Ökologie", "Evolutionsbiologie" und "Verhaltensbiologie"							
07-LA-NEUR-092-	Neurobiology								
mo1	ECTS 2 Duratio								
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment	written examination (approx. 30 minutes)							
	other prerequisites	Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.							
	Referred to in LPO I	§ 61 (1) 2. Biologie "Physiologie der Pflanzen und Tiere"							

07-GY-GEN-092-	Genetics												
mo1	ECTS	6	Duration	1 1	semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	es		This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-GY-GEN-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-GY-GEN-2-092: V (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of ass	essment										
				Assessment in module component o7-GY-GEN-1-092: Basic Genetics Basic Genetics • 3 ECTS, Method of grading: (not) successfully completed • written examination (approx. 30 minutes) • Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. Assessment in module component 07-GY-GEN-2-092: Advanced Genetics • 3 ECTS, Method of grading: numerical grade • written examination (60 to 90 minutes)									
		rerequi	_	By way of exception, additional prerequisites are listed in the section on assessments.									
		ed to in I			-	netik und Mikrobiologie	è						
mo1	ECTS	6	Duration		semester	Method of grading		Modul level					
	Course	es		This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-GY-EBIO1T-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-GY-EBIO1T-2-092: V (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of ass	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.									
L.				Biology V V C S r S Assessi	of Animals (Lect 4 ECTS, Method of written examinat Other prerequisit ses (weekly cour reason; fortnight ses (required per admission prerec ment in module of ECTS, Method of written examinat	ture, Practice) of grading: numerical g tion (30 to 60 minutes) tes: Admission prerequ rses: a maximum of on tly courses: one incider rcentage as specified a quisite to assessment. component o7-GY-EBIO of grading: numerical g tion (20 to 40 minutes)	rade disite to assessment: e incident of unexculat of unexcused absent the beginning of the company of the com	regular attendance of e sed absence and one e nce) and successful con te course). The preparat nental Biology of Plants	exercises, seminars a excused absence for a mpletion of the respe- ion of logs (10 to 15 p	nd lab cour- a legitimate ctive exerci-			
				By way of exception, additional prerequisites are listed in the section on assessments. § 61 (1) 2. Biologie "Physiologie der Pflanzen und Tiere"									
								on on assessments.					

07-LA-FLO-	The Flo	The Flora of Germany												
RA-092-m01	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	!	Modul level	undergraduate					
	Courses			•	This module comprises 2 module components. Information on courses will be listed separately for each module component. op-LA-FLORA-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) op-LA-FLORA-2-092: E (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment			Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.										
				many		omponent o7-LA-FLORA-1-092: System	natics of the Flo	ora of Germany	Systematics of the Flora of Ger-					
				 4 ECTS, Method of grading: numerical grade written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes) Assessment offered: once a year, summer semester Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab cour- 										
					reason; fortnightly ses (required perc	es: a maximum of one incident of une courses: one incident of unexcused a centage as specified at the beginning of uisite to assessment.	bsence) and s	uccessful comp	letion of the respective exerci-					
				Assessment in module component o7-LA-FLORA-2-092: Field Excursions on the Flora of Germany • 2 ECTS, Method of grading: (not) successfully completed • 5 field trip logs (approx. 1 to 2 pages per field trip) • Assessment offered: once a year, summer semester										
	other p	rerequis	ites	By way	By way of exception, additional prerequisites are listed in the section on assessments.									
	Referred to in LPO I			§ 41 (1 § 61 (1	.) 4. Biologie "Ökolo ı) 1. Biologie "Zytolo	ogie, Anatomie, Formenkenntnis und S ogie", "Evolutionsbiologie" und "Verha ogie, Anatomie, Formenkenntnis und S ogie", "Evolutionsbiologie" und "Verha	iltensbiologie" Systematik von	Pflanzen und 1						

07-LA-FAU-	The Fac	ına of G	iermany									
NA-092-m01	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		•	This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-LA-FAUNA-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) o7-LA-FAUNA-2-092: E (no information on SWS (weekly contact hours) and course language available)							
	Method	d of ass	essment	Asses stated	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
				Asses	 Assessment in module component o7-LA-FAUNA-1-092: Systematics of the Fauna of Germany 4 ECTS, Method of grading: numerical grade written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. Assessment in module component o7-LA-FAUNA-2-092: Field Excursions on the Fauna of Germany 2 ECTS, Method of grading: (not) successfully completed log (approx. 3 pages) 							
	other p	rerequi	sites	By way of exception, additional prerequisites are listed in the section on assessments.								
	Referred to in LPO I			§ 41 (1) 1. Biologie "Zytologie, Anatomie, Formenkenntnis und Systematik von Pflanzen und Tieren" § 41 (1) 4. Biologie "Ökologie", "Evolutionsbiologie" und "Verhaltensbiologie" § 61 (1) 1. Biologie "Zytologie, Anatomie, Formenkenntnis und Systematik von Pflanzen und Tieren" § 61 (1) 4. Biologie "Ökologie", "Evolutionsbiologie" und "Verhaltensbiologie"								
07-GY-METH-092-		cal Res	earch Me	thods								
mo1	ECTS	4	Duration		1 semester		(not) successfully completed		undergraduate			
	Course	S		Ü (no	information on SWS	(weekly contact hou	ırs) and course language availa	able)				
	Method	l n		minut	a) written examination (30 to 120 minutes) or b) log (10 to 30 pages) or c) oral examination of one candidate each (20 to 60 minutes) or d) oral examination in groups of up to 3 candidates or e) presentation (20 to 45 minutes) or f) portfolio (30 to 120 hours)							
	Referre	d to in I	PO I	§ 61 (1) 7. Biologie "Forsch	nungsorientiertes Pra	aktikum"					

07-GY-FOR-092-	Biologi	Biological Research												
mo1	ECTS	7	Duration		semester	Method of grading	_		Nodul level	undergraduate				
	Course	·S		This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-GY-FOR-1-092: S (no information on SWS (weekly contact hours) and course language available) o7-GY-FOR-2-092: P (no information on SWS (weekly contact hours) and course language available)										
	Method	d of ass	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.										
				Assessment in module component o7-GY-FOR-1-092: Statistics in Research (Practice) 1 ECTS, Method of grading: (not) successfully completed exercises (3 to 5 hours) Assessment in module component o7-GY-FOR-2-092: Research-oriented working in Biology (Practice) 6 ECTS, Method of grading: numerical grade										
				a) written examination (30 to 120 minutes) or b) log (10 to 30 pages) or c) oral examination of one candidate each (20 to 60 minutes) or d) oral examination in groups of up to 3 candidates or e) presentation (20 to 45 minutes) or f) portfolio (30 to 120 hours)										
		d to in		§ 61 (1)	§ 61 (1) 7. Biologie "Forschungsorientiertes Praktikum"									
07-LA-HU-	Human		<u> </u>											
BIO-092-m01	ECTS	9	Duration		semester	Method of grading			Modul level	undergraduate				
	Course	S		This module comprises 2 module components. Information on courses will be listed separately for each module component. op-LA-HUBIO-1-092: V (no information on SWS (weekly contact hours) and course language available) op-LA-HUBIO-2-092: Ü (no information on SWS (weekly contact hours) and course language available)										
				Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o7-LA-HUBIO-1-092: Basic Human Biology (Lecture) 5 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) Assessment in module component o7-LA-HUBIO-2-092: Basic Human Biology (Practice) 4 ECTS, Method of grading: (not) successfully completed logs (approx. 30 hours) and 10 to 15 drawings Only after successful completion of module components: Successful completion of module component o7-LA-HUBIO-1 is a prerequisite for participation in module component o7-LA-HUBIO-2. Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.						all individual assessments. dule component 07-LA-HUBIO-1 ercises, seminars and lab courcused absence for a legitimate pletion of the respective exerci-				
		rerequi		<u>-</u>			are listed in the section	on on assess	ments.					
	Keferre	ed to in			5. Biologie "Huma 5. Biologie "Huma									

o7-GY-MI-	Microb	iology 2	2	,								
Bl2-092-m01	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			Ü+V	+ V (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			minut	a) written examination (30 to 120 minutes) or b) log (10 to 30 pages) or c) oral examination of one candidate each (20 to 60 minutes) or d) oral examination in groups of up to 3 candidates or e) presentation (20 to 45 minutes) or f) portfolio (30 to 120 hours)							
	other p	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.							
	Referre	d to in L	.PO I	§ 61 (:	§ 61 (1) 3. Biologie "Genetik und Mikrobiologie"							
07-GY-PBBT-092-	Biolog	y in Tech	nnics and	Medic	Medicine							
mo1	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + V	V + V (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			2 writt	ten examinations (30	to 60 minutes each	1)					

07-GY-FBW-092-	Advanced Biology Course											
mo1	ECTS	8	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	!S		This module has 2 components; information on courses listed separately for each component. o7-GY-FBW-B-1-092: Ü + S (no information on language and number of weekly contact hours available) o7-GY-FBW-Z-2-092: Ü + S (no information on language and number of weekly contact hours available)								
	Method of assessment			This module has the following 2 assessment components. To pass the module as a whole students must pass one of the two assessment components.								
				um •	8 ECTS credits, n a) written exami	nt to module component o7-GY-FBW-B-1-092: Übur method of grading: numerical grade ination (30-120 minutes) or b) log (10-30 pages) or oral examination in groups up to three candidates	· c) oral examinatio	n of on candidate each (20-60				
					(30-120 hours to Other prerequisi ses (weekly cou reason; fortnight ses (required pe admission prere		ar attendance of exc osence and one exc nd successful comp se). The preparatio	ercises, seminars and lab courcused absence for a legitimate pletion of the respective exercin of logs (10 to 15 pages) is an				
				sium •	8 ECTS credits, ra) written exami minutes) or d) or Other prerequisi ses (weekly cou reason; fortnight ses (required pe	method of grading: numerical grade (nation (30-120 minutes) or b) log (10-30 pages) or ral examination in groups up to three candidates of ites: admission prerequisite to assessment: Regularses: a maximum of one incident of unexcused aboutly courses: one incident of unexcused absence) are recentage as specified at the beginning of the courtuiste to assessment.	r c) oral examination (2 or e) presentation (2 or attendance of exosence and one exond successful comp	n of on candidate each (20-60 o-45 minutes) ercises, seminars and lab courcused absence for a legitimate oletion of the respective exerci-				
	other p	rerequi	isites	By wa	y of exception, ac	dditional prerequisites are listed in the section on a	assessments.					
						werpunkt "Botanik" werpunkt "Zoologie"						

Teaching (10 ECTS	credits)										
07-LA-FD-	Basic D	idactic	s in Biolo	gy							
GRU-092-m01	ECTS	7	Duratio	n 2 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-LA-FDGRU-2-092: S (no information on SWS (weekly contact hours) and course language available) o7-LA-FDGRU-1-092: V + S (no information on SWS (weekly contact hours) and course language available)							
				Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o7-LA-FDGRU-2-092: School-Type-Specific Didactics in Biology (Seminar) 2 ECTS, Method of grading: numerical grade written examination (30 to 45 minutes) or term paper (10 to 15 pages) Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimat reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is a admission prerequisite to assessment. Assessment in module component o7-LA-FDGRU-1-092: Introduction into Didactics in Biology (Lecture, Practice) Introduction into Didactics in Biology (Lecture,							
	other p	<u> </u>		By way of exception, additional prerequisites are listed in the section on assessments.							
	Referre	d to in	LPO I		chdidaktik						

07-GY-	Special	Didaction	cs Biolog	ry: Learning Places outside School										
FDASL1-092-m01	ECTS 2 Duration			າ 1	1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses	S		This module has 2 components; information on courses listed separately for each component. or-RG-FDASL1-1-092: Ü (no information on language and number of weekly contact hours available) or-RG-FDASL1-2-092: Ü (no information on language and number of weekly contact hours available)										
	Method	d of asse	ssment		odule has the fo nent componer		ing 2 asse	essment	componei	nts. To pa	ss the mod	ule as a whole	stud	dents must pass one of the two
				Assessment component to module component o7-RG-FDASL1-1-092: Arbeiten im Lehr-Lern-Labor • 2 ECTS credits, method of grading: (not) successfully completed • practice study/evaluation (10-15 pages) • Other prerequisites: admission prerequisite to assessment: Regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. Assessment component to module component o7-RG-FDASL1-2-092: Arbeiten im LehrLernGarten • 2 ECTS credits, method of grading: (not) successfully completed • practice study/evaluation (10-15 pages) • Other prerequisites: admission prerequisite to assessment: Regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.										
	other prerequisites Referred to in LPO I			By way of exception, additional prerequisites are listed in the section on assessments.										
				§ 41 (1) 6. Biologie Fachdidaktik § 61 (1) 8. Biologie Didaktik										
07-GY-FD-	Special	Didactio	cs in Bio	logy: Teaching Aids										
MED-092-m01	ECTS	1	Duration		. semester							Modul leve	el	undergraduate
	Courses	S		S (no information on SWS (weekly contact hours) and course language available)										
	Method of assessment other prerequisites			seminar paper (7 to 10 pages)										
				Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.										
	Referre	d to in LF	PO I	§ 61 (1)	8. Biologie Did	aktik						· ·		

Freier Bereich (general as well as subject-specific electives)

Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below.

Freier Bereich -- interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt". Biology (Freier Bereich (general as well as subject-specific electives) -- subject specific) 07-LA-TUSB1-092- Supervising Tutorial for Biology 1 mo1 ECTS Method of grading (not) successfully completed Modul level undergraduate 13 Duration 1 semester T (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | presentation portfolio (approx. 60 hours total) Supervising Tutorial for Biology 2 07-LA-TUSB2-092-Method of grading (not) successfully completed ECTS Duration 1 semester Modul level undergraduate T (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | presentation portfolio (approx. 90 hours total) Supervising Tutorial for Basic Courses in Biology 1 07-LA-TUFB1-092mo1 ECTS Duration 1 semester Method of grading (not) successfully completed Modul level undergraduate T (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | portfolio and reports (approx. 60 hours total) 07-LA-TUFB2-092-Supervising Tutorial for Basic Courses in Biology 2 mo1 Method of grading (not) successfully completed | Modul level **ECTS** Duration 1 semester undergraduate Courses T (no information on SWS (weekly contact hours) and course language available) Method of assessment | portfolio and reports (approx. 90 hours total) 07-LA-TUFB3-092-Supervising Tutorial for Basic Courses in Biology 3 mo₁ **ECTS** Duration 1 semester Method of grading (not) successfully completed Modul level undergraduate T (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | portfolio and reports (approx. 120 hours total) 07-LA-ZQN2-092-**Additional Qualification MINT 2** mo1 Method of grading (not) successfully completed | Modul level ECTS 12 Duration 1 semester undergraduate V + S + Ü (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | a) written examination (30 to 120 minutes) or b) log (10 to 30 pages) or c) oral examination of one candidate each (20 to 60 minutes) or d) oral examination in groups of up to 3 candidates or e) presentation (20 to 45 minutes) or f) portfolio (30 to 120 hours) Additional Qualification MINT 3 07-LA-ZQN3-092mo1 Method of grading (not) successfully completed Modul level **ECTS** Duration 1 semester undergraduate \ddot{U} + S + V (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | a) written examination (30 to 120 minutes) or b) log (10 to 30 pages) or c) oral examination of one candidate each (20 to 60 minutes) or d) oral examination in groups of up to 3 candidates or e) presentation (20 to 45 minutes) or f) portfolio (30 to 120 hours)

07-LA-ZQN4-092-	Additio	Additional Qualification MINT 4											
mo1	ECTS 4 Duration 1 semester Method of grading (not) successfully completed Modul level undergrad								undergraduate				
	Course	S		V + S	+ S + Ü (no information on SWS (weekly contact hours) and course language available)								
					es) or d) oral examir				one candidate each (20 to 60 ninutes) or f) portfolio (30 to 120				

07-4S1M-	Ecology and	Developme	ntal Biology of marine organisms								
3-092-m01	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level undergraduate						
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. or-4S1MZ3-1MO-092: Ü (no information on SWS (weekly contact hours) and course language available) or-4S1MZ3-2MO-092: S (no information on SWS (weekly contact hours) and course language available)								
	Method of as	sessment	Assessment in this m	odule comprises the assessments in the individ	dual module components as specified below. Unless successful completion of all individual assessments.						
			Assessment in module component o7-4S1MZ3-1MO-092: Ecology and Developmental Biology of Marine Organisms • 4 ECTS, Method of grading: numerical grade • log (approx. 10 to 20 pages) • Assessment offered: once a year, summer semester • Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course. Assessment in module component o7-4S1MZ3-2MO-092: Seminar on Marine Biology • 1 ECTS, Method of grading: (not) successfully completed • presentation (approx. 20 to 30 minutes) • Assessment offered: once a year, summer semester								
	other preregi	uisites	By way of exception, additional prerequisites are listed in the section on assessments.								
	Participants cation of place		• 07-4\$1MZ3-1M ces, places will Biologie (Biolo of places will b 5% of places (Biolo tics and Mathe gy (as well as quota exceed t Should there b uniform regula ponent that are have successfu consideration. group 1 (95%): this purpose, a grade of all ass (excluding Che done as follow number of ECT (quantitative re and places will be allocated acco	I be allocated as follows: Places will primarily be gy) with 180 ECTS credits. Should the module be allocated to students of the Bachelor's degree a minimum of one participant in total) will be a gy) with 60 ECTS credits and to students of the ematik (Mathematics), each with 180 ECTS credits and to students of the potentially to students of other 'importing' subthe number of applications, the remaining places within one module component, several courtion for the courses of one module component econcerned will be allocated in a standardisecully completed at least one other module component Places will primarily be allocated according to applicants will be ranked according to the number semie (Chemistry), Physik (Physics), Mathematik is: First, applicants will be ranked, firstly, according to the applicants' position in a third ranking. The applicants' position in a third ranking or otherwise ranking to the following quotas: Quota 1 (50% of primarily to the follo	ber of applications exceed the number of available per allocated to students of the Bachelor's degree subject used in other subjects, there will be two quotas: 90 see subject Biologie (Biology) with 180 ECTS credits a allocated to students of the Bachelor's degree subjects Computational Mathematics, as part of the application-oriented subject Biologics. Should the number of places available in ces will be allocated to applicants from the other quorses with a restricted number of places, there will be t. In this case, places on all courses of a module conducted as they become available. Selection proces of the applicants' previous academic achievements. The applicants in the subject of Biologie (Biologic (Mathematics)) at the time of application. This will reding to their average grade weighted according to the coording to their total number of ECTS credits achieving will be calculated as the sum of these two rankin. Among applicants with the same ranking, places we by lot. Selection process group 2 (5%): Places will places): total number of ECTS credits already achieved.						
ymnasien Biolog	gy (2009)		in modules/mo		nong applicants with the same number of ECTS creded 26-Aug-2024 • exam. reg. data record L5 026 - - H 2009 page 1						
			plicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Should the module be used only in the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits, places will be allocated according to the selection process of group 1. • 07-4S1MZ3-2MO-092:								

07-LA-EX-	Excursion on Zoology or Botany												
KURS2-092-m01	ECTS 2 Duration			า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	!S		S + E	S + E (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of ass	essment	log (7	log (7 to 10 pages)								
07-LA-EX-	Excursion on Zoology or Botany lasting several days												
KURS1-092-m01	ECTS	4	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	!S		S + E	S + E (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment log (10 to 20 pages) or written examination (30 to 90 minutes)												
07-LA-RHET-092-	Biolog	ical Rhe	torics and	Comr	nunication								
mo1	ECTS 4 Duration			1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	!S		This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-LA-RHET-1-092: V (no information on SWS (weekly contact hours) and course language available) o7-LA-RHET-2-092: S (no information on SWS (weekly contact hours) and course language available)									
	A			Asses	5 2015, Method of Stading. (Not) Successfully completed								

07-RG-	Specia	l Didac	Didactics in Biology: Teacher-Training Lab/Teach'n'LearnGarden											-	
FDASL2-092-m01	ECTS	4	Duratio	n	1 semester Method of grading (not) successfully completed Modul level undergraduate										
	Course	·S		This module comprises 2 module components. Information on courses will be listed separately for each module component. or-RG-FDASL2-1-092: Ü (no information on SWS (weekly contact hours) and course language available) or-RG-FDASL2-2-092: S (no information on SWS (weekly contact hours) and course language available)											
	Method	d of ass	sessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.											
				Assessment in module component o7-RG-FDASL2-1-092: Advanced Course on "Working in the Teacher-Training Lab/Teach'n'LearnGarden" (Practice) • 2 ECTS, Method of grading: (not) successfully completed • portfolio (7 to 10 pages) • Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment. Assessment in module component o7-RG-FDASL2-2-092: Introduction to Educational Research (Seminar) • 2 ECTS, Method of grading: (not) successfully completed • term paper (7 to 10 pages) • Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course). The preparation of logs (10 to 15 pages) is an admission prerequisite to assessment.											
	other p	<u> </u>		By way of exception, additional prerequisites are listed in the section on assessments.											
07-LA-FD-			_	logy: Preparation for the Written Exam											
STX-092-m01	ECTS 2 Duratio														
	Courses			S (no information on SWS (weekly contact hours) and course language available)											
	Method	d of ass	sessment												
	other p	rerequi	isites	Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course).											
07-LA-FD-	Specia	l Didac	tics in Bio	logy: Motivation and Discipline in Biology Education											
DIS-092-m01	ECTS	2	Duratio	n	1 semester	Metho	od of gradin	g (not) su	ccessfull	y complet	ted	Modul lev	⁄el	undergraduate	
	Course	:S	,	S (no information on SWS (weekly contact hours) and course language available)											
	Method of assessment			seminar paper (7 to 10 pages)											
	other p	rerequi	isites	Admission prerequisite to assessment: regular attendance of exercises, seminars and lab courses (weekly courses: a maximum of one incident of unexcused absence and one excused absence for a legitimate reason; fortnightly courses: one incident of unexcused absence) and successful completion of the respective exercises (required percentage as specified at the beginning of the course).											
LA Gymnasien Biology (2	2009)							JMU V	Vürzburg • ge	enerated 26-A	ug-2024	• exam. reg. o	data re	cord L5 026 - - H 2009 page	e 19 / 20

Thesis (10 ECTS credits)

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Gymnasium may write this thesis in one of the subjects they selected as vertieft studiertes Fach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.

terdiscipilitary thes	13.													
07-GY-HA-092-	Thesis	Thesis in Biology												
mo1	ECTS 10 Duration			n 1 semester		Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		This module comprises 2 module components. Information on courses will be listed separately for each module component. o7-GY-HA-1-092: no courses assigned o7-GY-HA-2-092: no courses assigned										
	Method	d of asse	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.										
				Assessment in module component o7-GY-HA-1-092: Thesis in Didactics in Biology										
				 10 ECTS, Method of grading: numerical grade written thesis (30 to 50 pages) 										
				Assessment in module component 07-GY-HA-2-092: Thesis in Science Biology										
				• 10 ECTS, Method of grading: numerical grade										
					written thesis (30 to									
	Additio	nal Info	rmation	Additional information on module duration: 1 to 2 semesters.										