

Module Catalogue

for the Subject

Didactics in Biology (Primary School)

as Didaktikfach

with the degree "Erste Staatsprüfung für das Lehramt an Grundschulen"

> Examination regulations version: 2015 Responsible: Faculty of Biology

JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record L1|802|-|-|H|2015



Contents

The subject is divided into	3
Abbreviations used, Conventions, Notes, In accordance with	4
Compulsory Courses	5
Didactics in Biology I: Basics DG/DM	6
Didactics Biology II: Special Didactics DG/DM	8
Compulsory Electives	10
Habitats of Germany	11
Freier Bereich (general as well as subject-specific electives)	13
Extra Skills Teaching Biology at the German Grundschule	14
Additional Qualification MINT 2	15
Additional Qualification MINT 3	16
Additional Qualification MINT 4	17
Additional Qualification MINT 5	18
Additional Qualification MINT 6	19
Excursion on Zoology or Botany I	20
Excursion on Zoology or Botany II	22
Extracurricular Places of Learning in Biology	24
Skills Orientated Learning in Biology	26
Habitats of Germany	28
Advanced Didactics in Biology	30
Paper	31
Thesis in Biology (Grundschulen)	32



The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	10	5
Compulsory Electives	5	10
Freier Bereich (general as well as subject-specific electives)		13
Extra Skills Teaching Biology at the German Grundschule		14
Paper	10	31



Abbreviations used

Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{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

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

Notes

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 the 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:

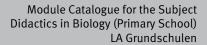
LASPO2015

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

20-Oct-2015 (2015-193)

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.





Compulsory Courses

(10 ECTS credits)

Successful completion of modules worth no less than 10 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) (mandatory courses) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktik der Grundschule (Didactics for Grundschule). In addition, modules worth another 5 ECTS credits must be successfully completed in one of the subjects selected as Didaktikfach (mandatory electives).

Module	e title				Abbreviation	
Didactics in Biology I: Basics DG/DM 07-DGDM-FDBIO-1-152-r					152-m01	
Module coordinator Module offered by						
		Didactics of Biology		Faculty of Biology		
ECTS	<u> </u>	od of grading	Only after succ. com			
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
ledge, modes out-of- <i>terrich</i> ses for will dis taught, integra their le their le will be are pur <i>ds</i>) will classro cuss be and wo theoret individ choice Familia	student of inter classro t (<i>The B</i> the res cuss ge , in a di te diffe ssons, ssons o separa suing a l acqua ork shee tical int ual pha which v	aciples of biology lesson ts will learn how to outlin raction in the classroom, om learning environmen <i>iology Classroom</i>) will en- pective type of school. Se eneral aspects of curricu dactically reduced mann rent teaching methods a keeping in mind what is or parts of these in the se te seminars for each typ teaching degree. Using int students with specified will assess these with the litional aids used in the ts etc.) and modern aids roduction to teaching aid uses of lessons on specified will subsequently be ass ning outcomes h relevant aspects of bio	ne problem-based bio , teaching methods ar its, topics and theorie quip students with de Students will prepare of lum theory and, workin er, into teaching sequand modes of interaction and what is not poss eminar. Didactic aspe e of school; please se examples from the clucter c teaching aids (origin regard to the media lift biology classroom (mistic computer simulation ds, students will be an fic topics from the cur- sessed with regard to a biology didactics	logy lessons. The co ad approaches, the co is in biology didactic tailed knowledge on didactic analyses on ng in small teams, w uences and lessons. on in the classroom ible in the respective cts will be evaluated lect the seminar for assroom, the seminar teracy skills to be de odels, blackboard, C ns, ppt presentation ranged into small ter riculum. They will for aspects of media dic	purse will discuss top definition of learning s etc. The seminar <i>B</i> a how to plan and de topics from the curr vill translate the mat At the same time, st (as well as teaching e type of school, and and discussed in cl the school type for v ar <i>Unterrichtsmittel</i> (ad media) for use in eveloped. The semina DHP, transparencies, s etc.). After having eams that will deliver cus on a teaching aid dactics.	bics such as goutcomes, <i>iologieun</i> - sign clas- iculum. They terial to be tudents will gaids) into l will deliver lass. There which you (<i>Teaching Ai</i> - the biology ar will dis- the biology ar will dis- textbook received a r lessons or
 A F A S A S K K F C C F A A T 	Ability to amiliar ype of so ability to chool a ability to bed and cons an familiar Overview of media familiar Practica ability to aught.	o prepare scientific ana and to subsequently pres- o prepare didactic analys o translate, with the help ces and lessons as well a /or open teaching metho dge of the fact that the te d media. ity with a biology-specifi w of classifications of m a. ity with the limitations a l skills using media of al o independently prepare o use teaching aids in cla	y in a way that promot ecific and interdiscipl lyses on selected top sent these topics in a ses on topics from the of didactic analyses s to deliver these teac ods. erm "teaching aids in t ic, didactic definition edia, factors that infl nd problems associat l kinds (hardware side teaching aids. assroom situations in a	es the learning proc inary topics from the ics from the curricu manner that is tailor curriculum for the r selected topics from hing sequences and he biology classroon of the term "media". uence the choice of ed with the use of m e).	esses of pupils. e curriculum for the lum for the respecti red to the target grou espective type of scl m the curriculum into lessons, applying pr m" refers to originals media as well as th hedia in the classroo iate for pupils and th	ve type of up. hool. o teaching oblem-ba- s, prepara- e function m. m.
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LA Grundschulen Didactics in Biology (Primary	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 6 / 32
School) (2015)	cord Lehramt Grundschulen (Didaktikfach) Biologie - 2015	

• - Advantages and disadvantages of specific teaching aids; limitations associated with the use of media in the classroom.

Courses (type, number of weekly contact hours, language – if other than German)

V (2) + S (3)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) creditable for bonus

Allocation of places

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Additional information

Workload

150 h

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 36 | Nr. 7

§ 38 | Nr. 1

Module appears in

First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))

Module t	title				Abbreviation
Didactics Biology II: Special Didactics DG/DM			07-DGDM-FDBIO-2-152-m01		
Module o	coordinator			Module offered by	
head of g	group Didactics of Bi	ology		Faculty of Biology	
ECTS I	Nethod of grading		Only after succ. com	pl. of module(s)	
5 (not) successfully co	mpleted			
Duration	Module level		Other prerequisites		
1 semest	er undergraduate	9			
Contents	5				
be arrang ments, w in class v will thus lessons t how stuct tion to th bitats, th environm opportur will pract pils in see Intended • Ab act • Ab as • Ab ror • Ab	 Contents In the seminar Arbeitstechniken und Schulversuche (Methods and Experiments in the Classroom), students will be arranged into small teams and will perform a variety of experiments on classic topics in biology. The experiments, which will be tailored to the requirements of the respective type of school, will subsequently be assessed in class with regard to didactic aspects and/or will be integrated into concrete classroom situations. Students will thus acquire techniques and background knowledge that will enable them to deliver lively and motivating lessons to different age groups. The seminar <i>Freilandbiologie (Outdoor Biology)</i> will explore general aspects on how students may incorporate field trips to out-of-classroom learning environments into their teaching. In addition to the scientific identification and characterisation of plant and/or animal communities in their natural habitats, the seminar will discuss didactic and pedagogical criteria for the selection of out-of-classroom learning environments that are relevant for the respective type of school. In this context, the course will also discuss the opportunities and limitations of out-of-classroom learning. Designing practice-oriented teaching units, students will practise teaching the identification of indigenous animals and plants to fellow students and/or groups of pupils in selected out-of-classroom learning environments. Ability to implement experiments typically performed in the biology classroom and to integrate them into activity and problem-based lessons. Ability to ealyse and evaluate the practical implementation with experiments in the classroom as well as research methods in the natural sciences, taking didactic aspects into account. Ability to evaluate the significance of original encounters with nature in out-of-classroom learning environments as key elements of biology lessons. Ability to prepare and deliver a session in an out-of-classroom learning envir				
	eds of the respective	• ·			
	(type, number of weekly co	ntact hours, l	anguage — if other than Ger	man)	
S (4) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) portfolio (approx. 30 hours) creditable for bonus Allocation of places					
Addition	Additional information				
Workload	d				
150 h					

Teaching cycle

Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 36 | Nr. 7

§ 38 | Nr. 1

Module appears in

First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))





Compulsory Electives

(5 ECTS credits)

Module	Module title Abbreviation					
Habita	Habitats of Germany07-LA-FB-EL-152-m01					01
Module coordinator Module offered by						
head o	f group	Didactics of Biology		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
2 seme	2 semester undergraduate					
Conten	ts					
will pro vironm dents v liver th tre, and a concr	ovide st ents" ir vill ada e respe d will su rete top	Einheimische Lebensräur udents with an opportur n more detail. The course pt existing teaching unit ective units to groups of ubsequently evaluate the bic related to the respect we, methodological and	hity to explore the top e will focus on the me is on water, forest, gra pupils, preferably dur e sessions. Students ive habitat, a lesson t	ic "teaching biology thodological aspect assland, farmland an ing a project day at a will develop an activ	in out-of-classroom of environmental ed d/or hedgerow habi in environmental ed ity and problem-bas	learning en- lucation. Stu- itats, will de- ucation cen- ed lesson on
· ·		ning outcomes				
t • д • д	 Ability to develop activity-based and multisensory lessons in out-of-classroom learning environments that are tailored to the target group as well as ability to adapt and evaluate lessons. Ability to independently organise and run project days. Ability to critically reflect on the respective lessons, taking aspects of environmental education into consideration. 					
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
Ü (3)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
b) oral c) term d) porti	examir paper folio its will	mination (approx. 45 to g nation of one candidate o (approx. 10 to 30 pages) be informed about the m bonus	each (30 to 60 minute or		to the course.	
Allocat						
Additio	onal inf	ormation				
Worklo	ad	-				
150 h						
Teaching cycle						
Referre	ed to in	LPO I (examination regulation	is for teaching-degree progra	mmes)		
§ 36 Nr. 7						
Module	e appea	urs in				
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First state examination for the teaching degree Gymnasium Biology (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2015)

First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))



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

(ECTS credits)

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".



Extra Skills Teaching Biology at the German Grundschule (ECTS credits)

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

LA Grundschulen Didactics in Biology (Primary School) (2015)

Module offered b iology) Faculty of Biology ly after succ. compl. of module(s) her prerequisites ences that are not offered as part of an opportunity to strengthen their the University of Würzburg or by examittee. Will include one week of al nary knowledge and have thus enh additional skills	the pool of general transferable general background in the natural ternal institutions. Decision on cre-			
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eaching-degree programmes)				
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LA Grundschulen Didactics in Biology (Primary	
School) (2015)	

e title				Abbreviation
nal Qu	07-LA-ZQN3-152-m01			
Module coordinator Module offered by				
progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
Metho	od of grading	Only after succ. com	pl. of module(s)	
(not) s	successfully completed			
ı	Module level	Other prerequisites		
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Additional information				
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LA Grundschulen Didactics in Biology (Primary	
School) (2015)	

Additional Use Infection MINT 4 Module offered by Module correction of Mint 4 Module offered by FCTS Metional of Module Correction of Module(s) Faculty of Biology A Nodal Restriction Mint 4 Only after succ. correction module(s) Faculty of Biology Correction Module Correction of Module Correction Module (s) Module Correction Mint 4 Module Correction Mint 4 1 sem ster Module Correction S Module Correction Mint 4 Module Correction Mint 4 Courses undergraduate	Module	title				Abbreviation
degree programme coordinator Biologie (Biology) Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 4 (not) successfully completed Duration Module level Other prerequisites 1 semester undergraduate Contents Courses in areas other than the natural sciences that are not offered as part of the pool of general transferal skills (ASQ) and that provide students with an opportunity to strengthen their general background in the nation sciences. These courses may be offered by the University of WURD/Durg or by external institutions. Decision of dit transfer to be made by examination committee. Will include one week of all-day courses. Intended learning outcomes	Additional Qualification MINT 4 07-LA-ZQN4-152-mo1					07-LA-ZQN4-152-m01
ECTS Method of grading Only after succ. compl. of module(s) 4 (not) successfully completed	Module coordinator Module offered by					
4 (not) successfully completed Duration Module level Other prerequisites 1 semester undergraduate Contents Courses in areas other than the natural sciences that are not offered as part of the pool of general transferal sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision o dit transfer to be made by examination committee. Will include one week of all-day courses. Intendel learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific s They have acquired additional expertise and have developed additional skills in areas other than biology. Courses (type, number of weekly contact hours, language – if other than German) S (a) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whe module is creditable for honus Allocation of places Workload 120 h Teaching cycle Module appears in First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Biology (2015) First state ex	degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
Duration Module level Other prerequisites 1 semester undergraduate Contents Contents Courses in areas other than the natural sciences that are not offered as part of the pool of general transferal sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision o dit transfer to be made by examination committee. Will include one week of all-day courses. Intended learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific to They have acquired additional expertise and have developed additional skills in areas other than biology. Courses (type, number of weekly contact hours, language if other than German) S (4) Method of assessment (type, scope, language if other than German, examination offered if not every semester, information on whe module is creditable for bonus Allocation of places Additional information Morkload 120 h Referred to in LPO 1 (examination regulations for teaching degree programmes) Module	ECTS	Metho	d of grading	Only after succ. com	pl. of module(s)	
Duration Module level Other prerequisites 1 semester undergraduate Contents Contents Courses in areas other than the natural sciences that are not offered as part of the pool of general transferal skills (ASO) and that provide students with an opportunity to strengthen their general background in the nat sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision o dit transfer to be made by examination committee. Will include one week of all-day courses. Intended learning outcomes	4	(not) s	uccessfully completed			
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Contents Contents Courses in areas other than the natural sciences that are not offered as part of the pool of general transferal skills (ASQ) and that provide students with an opportunity to strengthen their general background in the nat sciences. These courses may be offered by the University of Wirzburg or by external institutions. Decision o dit transfer to be made by examination committee. Will include one week of all-day courses. Intended learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific s They have acquired additional expertise and have developed additional skills in areas other than biology. Courses (type, number of weekly contact hours, language — if other than German) S (a) Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whe module is creditable for bonus) written examination (approx. 60 minutes) creditable for bonus Allocation of places	1 semes	ster	undergraduate			
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LA Grundschulen Didactics in Biology (Primary	
School) (2015)	

Module title				Abbreviation	
Additio	nal Qu	alification MINT 5		07-LA-ZQN5-152-m01	
Module	coord	nator		Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	uccessfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Conten					
skills (A science dit tran	Courses in areas other than the natural sciences that are not offered as part of the pool of general transferable skills (ASQ) and that provide students with an opportunity to strengthen their general background in the natural sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision on credit transfer to be made by examination committee. Will include one week of all-day courses.				neral background in the natural rnal institutions. Decision on cre-
		ning outcomes			
					ced their general scientific skills. areas other than biology.
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Gerr	man)	
S (4)					
module is	creditab examir	e for bonus) nation (approx. 60 minute		xamination offered — if no	t every semester, information on whether
Allocati	ion of p	laces			
	•				
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ig cycle	9			
Referre	d to in	LPO I (examination regulations	s for teaching-degree program	mmes)	
Module	appea	rs in			
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rungsol	ungsordnungsversion 2015))				

LA Grundschulen Didactics in Biology (Primary	
School) (2015)	

Module title					Abbreviation
Additional Qualification MINT 6					07-LA-ZQN6-152-m01
Module	coord	inator		Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Conten	ts				
dents w	vith adv by the	vanced knowledge in the University of Würzburg o	natural sciences that	is related to their d	rable skills (ASQ) that equip stu- iscipline. These courses may be dit transfer to be made by exami-
Intende	d lear	ning outcomes			
		e developed an improved e acquired additional exp	-		nced their specific qualificati- eir field.
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (4)					
module is	creditab examir	le for bonus) nation (approx. 60 minute		examination offered — if no	t every semester, information on whether
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ig cycl	9			
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Referre	d to in	LPO I (examination regulations	for teaching-degree program	mmes)	
Module					
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LA Grundschulen Didactics in Biology (Primary	
School) (2015)	

Module title					Abbreviation
Excursion on Zoology or Botany I 07-1					07-LA-EXKURS1-152-m01
Module	coord	inator		Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
2	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Content	ts				
		Ilti-day botanical or zoolo s and animals in German		students will explore	e selected habitats and commu-
Intende	d learr	ning outcomes			
		amiliar with terrestrial pla ence the composition of t		unities, their habita	t requirements as well as the fac-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (2)					
		essment (type, scope, langua le for bonus)	ge — if other than German, e	xamination offered — if no	t every semester, information on whether
c) term d) portf	paper olio ts will t ole for		or		to the course.
Allocali		naces			
Addition	nal inf	ormation			
Auditio					
Workloa	ad				
60 h					
Teachin	g cycl	9			
	3 -)	-			
Referre	d to in	LPOI (examination regulations	s for teaching-degree program	mmes)	
Module appears in					
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Module title				Abbreviation	
Excursion on Zoology or Botany II 07-LA-EX					07-LA-EXKURS2-152-m01
Module	coord	inator		Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Content	ts				
		Ilti-day botanical or zoolo s and animals in German		students will explore	e selected habitats and commu-
Intende	d learr	ning outcomes			
		amiliar with terrestrial plance the composition of t		nunities, their habita	t requirements as well as the fac-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (4)					
		e ssment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
c) term d) portf	paper olio ts will t ole for		or		to the course.
Allocall		naces			
Additio	nal inf	ormation			
Additio					
Workloa	ad				
120 h					
Teachin	g cycle	a			
	3 0 , 0 .				
Referre	d to in	LPOI (examination regulations	for teaching-degree progra	mmes)	
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Module appears in					
First sta First sta First sta First sta First sta First sta First sta First sta	Module appears in First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Gymnasium Biology (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))				



Module title					Abbreviation	
Extracı	urricula	r Places of Learning in	Biology		07-LA-FB-ASL-152-n	101
Module	e coord	inator		Module offered by		
head of group Didactics of Biology				Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Contents					
well as biology vironm enviror ged int tic met pils of search	The seminar <i>Umweltbildung</i> (<i>Environmental Education</i>) will discuss approaches to environmental education as well as didactic components and will highlight the significance of out-of-classroom learning environments for biology lessons. In the Botanical Garden and indigenous habitats, students will try out practical methods for environmental education and will develop short teaching sequences to be delivered in out-of-classroom learning environments. In the seminar <i>PraxisPlus im LLL (Teach'n'Learn Lab: Intensive Practice</i>), students will be arranged into teams that will independently deliver existing lessons in a teach'n'learn lab. Applying a range of didactic methods, students will develop an understanding of research in biology didactics. Supervising groups of pupils of different ages, they will enhance their teaching skills. In the seminar <i>Biologiedidaktische Forschung (Research in Biology Didactics</i>), students will gain an overview of topics in current research on biology didactics and					ments for thods for en- m learning l be arran- ge of didac- roups of pu- schung (Re- didactics and
	· · ·	roficient in techniques i ning outcomes				
 A A A tr A 	Ability to Ability to as to the Ability to Ability to Ability to	that may encourage pup o explore the scientific o design experience-ba e respective type of sch o didactically adapt sel school at which they are o describe current topic o assess and evaluate t	principles behind the r sed lessons on these to ool and local condition ected research method e teaching. s in didactics. he cognitive learning a	espective topics. topics that are tailor ns. ds for the age group achievement of pupil	students are teachir	
S (2) +	S (2)					
		sessment (type, scope, langu le for bonus)	uage — if other than German, o	examination offered — if no	ot every semester, informati	ion on whether
b) oral c) term d) porti Studen	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (30 to 60 minutes) or c) term paper (approx. 10 to 30 pages) or d) portfolio Students will be informed about the method and length of the assessment prior to the course. creditable for bonus					
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
LA Grundso School) (20		actics in Biology (Primary		enerated 18-Apr-2025 • exam Indschulen (Didaktikfach) Bio		page 24 / 32

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

First state examination for the teaching degree Grundschule Biology (2015)

First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Realschule Biology (2015)

First state examination for the teaching degree Gymnasium Biology (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2015)

First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))

Module	Module title				Abbreviation	
Skills (Skills Orientated Learning in Biology				07-LA-FB-KO-152-m	01
Module	e coord	inator		Module offered by		
head o	fgroup	Didactics of Biology		Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed	t			
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	its					
ge of h these h se, sex festyle as well unterri in class sibilitie will dis richtsm de you ented l orienta ciple o Intendo A t t	 Contents In the seminar <i>Gesundheitserziehung (Health Education)</i>, we will explore the causes and reasons of a broad range of health issues faced by many children and adolescents in Germany today; we will discuss different types of these health issues as well as related theories. We will focus on the following topics: drugs and substance abuse, sex education, unhealthy eating habits and lack of exercise. We will develop lessons to promote a healthy lifestyle that are tailored to the requirements of the respective type of school and will discuss general measures as well as measures related to specific topics. In the seminar <i>Motivierte und disziplinierte Schüler im Biologie-unterricht (Motivation and Discipline in the Biology Classroom)</i>, you will learn how to handle difficult situations in class and will develop methodological skills for the biology classroom. We will discuss the duties and responsibilities of teachers as well as ways to effectively fulfil these. We will analyse typical causes of disruption and will discuss ways to deal with disruptive pupils and prevent disruption. The seminar <i>Kompetenzorientierte Unterrichtsmodelle am Beispiel HOBOS (Skill-Oriented Instructional Models: the HOBOS Learning Platform)</i> will provide you with an introduction to the HOBOS learning platform and will acquaint you with the concepts of skill-orientation may have on teaching. In addition, you will learn to plan and implement lessons, observing the principle of individualisation. You will acquire broad range of methods that will allow you to do so. Intendel learning outcomes Ability to explain both selected explanatory approaches to understanding health-impairing behaviours and historical as well as current approaches to the prevention of these behaviours. Ability to name the duties and responsibilities of teachers as well as fundamental principles set out in the following acts and regulations: Bayerisches Gesetz über das Erziehungs- und Unterrichtswesen (
		number of weekly contact hou	rs, language — if other than Ger	rman)		
S (2) +						
		s essment (type, scope, lan ole for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
 a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (30 to 60 minutes) or c) term paper (approx. 10 to 30 pages) or d) portfolio Students will be informed about the method and length of the assessment prior to the course. creditable for bonus 						
Allocat	Allocation of places					
Additio	onal inf	ormation				
LA Grundso School) (20		lactics in Biology (Primary		enerated 18-Apr-2025 • exam undschulen (Didaktikfach) Bio	-	page 26 / 32

Workload

150 h

Teaching cycle

D

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

First state examination for the teaching degree Grundschule Biology (2015)

First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Realschule Biology (2015)

First state examination for the teaching degree Gymnasium Biology (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2015)

First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015)

First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))

Module title					Abbreviation	
Habita	ts of Ge	ermany			07-LA-FB-EL-152-mc	01
Module	e coord	inator		Module offered by		
head o	f group	Didactics of Biology		Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
2 seme	ester	undergraduate				
Conten	Contents					
will pro vironm dents v liver th tre, and a conci	The exercise <i>Einheimische Lebensräume im Biologieunterricht (Indigenous Habitats in the Biology Classroom</i>) will provide students with an opportunity to explore the topic "teaching biology in out-of-classroom learning environments" in more detail. The course will focus on the methodological aspect of environmental education. Students will adapt existing teaching units on water, forest, grassland, farmland and/or hedgerow habitats, will de- liver the respective units to groups of pupils, preferably during a project day at an environmental education cen- tre, and will subsequently evaluate the sessions. Students will develop an activity and problem-based lesson on a concrete topic related to the respective habitat, a lesson that is tailored to their target group and develops their					
	-	ve, methodological and ning outcomes				
t • Д • Д	 Ability to develop activity-based and multisensory lessons in out-of-classroom learning environments that are tailored to the target group as well as ability to adapt and evaluate lessons. Ability to independently organise and run project days. Ability to critically reflect on the respective lessons, taking aspects of environmental education into consideration. 					
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
Ü (3)						
		Sessment (type, scope, langu le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informat	ion on whether
b) oral c) term d) port	examir paper folio Its will	mination (approx. 45 to nation of one candidate (approx. 10 to 30 pages) be informed about the n bonus	each (30 to 60 minute) or		to the course.	
Allocat						
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
§ 36 I N	§ 36 Nr. 7					
Module	Module appears in					
First st	ate exa	mination for the teachin mination for the teachin mination for the teachin	g degree Grundschule	Didactics in Biology	/ (Primary School) (2	:015)
LA Grundso School) (20		actics in Biology (Primary		enerated 18-Apr-2025 • exam Indschulen (Didaktikfach) Bio	•	page 28 / 32

First state examination for the teaching degree Gymnasium Biology (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2015)

First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))

Module	Module title Abbreviation					
Advanc	Advanced Didactics in Biology 07-LA-FB-VFD-152-m01					
Module	e coord	inator		Module offered by	L	
head o	fgroup	Didactics of Biology		Faculty of Biology		
ECTS	<u>, </u>	od of grading	Only after succ. con			
4		successfully completed		, ,,,		
Duratio		Module level	Other prerequisites			
1 seme		undergraduate				
	Contents					
		vill provide students wit	 h in-denth insights int	o the theory and pra	ctice of biology dida	ctics
		ning outcomes				
	-	be able to apply the fun	damontal knowlodgo t	how have acquired to	a a range of aspects	of biology di-
dactics		be able to apply the fun	uamental knowledge i	liey llave acquiled to	o a range of aspects	oi biology ui-
Course	S (type, r	umber of weekly contact hours	. language — if other than Gei	rman)		
S (2)		,				
	d of ass	Sessment (type, scope, langi	uage — if other than German.	examination offered — if no	t every semester, informatio	on on whether
		le for bonus)				Shi on whether
a) writt	en exai	mination (approx. 45 to	90 minutes) or			
		ation of one candidate		s) or		
		(approx. 10 to 30 pages	.) or			
d) port		be informed about the r	nethod and length of t	he assessment prior	to the course	
credita			include and length of t	ne assessment phot	to the course.	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
120 h						
Teachi	ng cvcl	6				
	0.7	-				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	20002	urs in				
		mination for the teaching	ng degree Grundschule	Biology (2015)		
		mination for the teachin			(Primary School) (2)	015)
				•,		515)
	First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Gymnasium Biology (2015)					
First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015)						
	First state examination for the teaching degree Mittelschule Biology (2015)					
First sta	ate exa	mination for the teachi	ng degree Mittelschule	Didactics in Biology	(Middle School) (20	15)
First sta	ate exa	mination for the teachi	ng degree Mittelschule	Biology (2020 (Prüf	ungsordnungsversio	n 2015))
	First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020					
	-	ungsversion 2015))	,			(F . "
		mination for the teachin sversion 2015))	ng degree Mittelschule	Didactics in Biology	' (Middle School) (20	20 (Prü-
LA Grundso	chulen Did	actics in Biology (Primary	JMU Würzburg ● g	enerated 18-Apr-2025 • exam	. reg. data re-	page 30 / 32
School) (20		,		undschulen (Didaktikfach) Bio	-	





Paper

(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 Grundschule may write this thesis in the subject Didaktik der Grundschule (Didactics of Grundschule), in the subject they selected as Unterrichtsfach (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.

Module	title				Abbreviation
Thesis	in Biol	ogy (Grundschulen)			07-GS-DF-HA-152-m01
Module	e coord	inator		Module offered by	<u> </u>
head o	fgroup	Didactics of Biology		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1-2 sem	nester	undergraduate			
Conten	ts				
died wi	th a fo	cus on teaching methodo	ology) may write their	Hausarbeit (thesis)	s their <i>Didaktikfach</i> (subject stu- for example in biology didactics. topic, applying the necessary me-
Intende	ed leari	ning outcomes			
didacti	c meth	ods appropriate to the re	spective topic. They	will present their find	hes and methods. They will use dings in a written thesis. Working apers, citing sources etc.).
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
No cou	rses as	signed to module			
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
written	thesis	(30 to 50 pages)			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Time to	compl	ete: 10 weeks			
Worklo	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
§ 29					
Module	Module appears in				
First sta	ate exa	mination for the teaching	g degree Grundschule	Didactics in Biology	y (Primary School) (2015)