

Subdivided 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

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.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page				
Compulsory Courses (10 EC	TS credits)		•					
Successful completion of modules worth no less than 10 ECTS credits in each subject selected as Didaktikfach (subject stu- died 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 electi- ves).								
07-DGDM-FD-	NILIAA	,						
BIO-1-152-m01	Didactics in Biology I: Basics DG/DM	5	NUM	4				
07-DGDM-FD-	Didactics Dialogy III Special Didactics DC /DM	_	B/NB	6				
BIO-2-152-m01	Didactics Biology II: Special Didactics DG/DM	5	D/ND	6				
Compulsory Electives (5 EC	TS credits)							
07-LA-FB-EL-152-m01	Habitats of Germany	5	B/NB	13				
Freier Bereich (general as we	ll as subject-specific electives)		1					
ject-specific electives) (Secti To achieve the required num Freier Bereich interdisciplir	ust take modules worth a total of 15 ECTS credits in the area Freie on 9 LASPO (general academic and examination regulations for t ber of ECTS credits, students may take any modules from the are nary: The interdisciplinary additional offer for a teaching degree of gen für den "Freien Bereich" im Rahmen des Studiums für ein Le	eaching-de as below. can be four	egree program	nes)).				
	gy at the German Grundschule							
	vell as subject-specific electives) subject specific)							
07-LA-ZQN2-152-m01	Additional Qualification MINT 2	2	B/NB	18				
07-LA-ZQN3-152-m01	Additional Qualification MINT 3	3	B/NB	19				
07-LA-ZQN4-152-m01	Additional Qualification MINT 4	4	B/NB	20				
07-LA-ZQN5-152-m01	Additional Qualification MINT 5	5	B/NB	21				
07-LA-ZQN6-152-m01	Additional Qualification MINT 6	5	B/NB	22				
07-LA-EXKURS1-152-m01	Excursion on Zoology or Botany I	2	B/NB	9				
07-LA-EXKURS2-152-m01	Excursion on Zoology or Botany II	4	B/NB	10				
07-LA-FB-ASL-152-m01	Extracurricular Places of Learning in Biology	5	B/NB	11				
07-LA-FB-KO-152-m01	Skills Orientated Learning in Biology	5	B/NB	15				
07-LA-FB-EL-152-m01	Habitats of Germany	5	B/NB	13				
07-LA-FB-VFD-152-m01	Advanced Didactics in Biology	4	B/NB	17				
Paper (10 ECTS credits)		1	1					
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.								
07-GS-DF-HA-152-m01	Thesis in Biology (Grundschulen)	10	NUM	8				

Didactics in E				
Didactics in Biology I: Basics DG/DM				07-DGDM-FDBIO-1-152-m01
Module coordinator			Module offered by	<u> </u>
head of group Didactics of Biology			Faculty of Biology	
	od of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·	
	erical grade			
Duration	Module level	Other prerequisites		
1 semester	undergraduate			
Contents				
modes of inte out-of-classre <i>terricht (The I</i> ses for the re will discuss g taught, in a d integrate diff their lessons	eraction in the classroon oom learning environme <i>Biology Classroom</i>) will e spective type of school. general aspects of curricu idactically reduced man erent teaching methods , keeping in mind what i	n, teaching methods an nts, topics and theorie equip students with de Students will prepare ulum theory and, work ner, into teaching sequ and modes of interact s and what is not poss	nd approaches, the es in biology didaction etailed knowledge of didactic analyses of ing in small teams, uences and lessons ion in the classroon ible in the respectiv	ourse will discuss topics such a definition of learning outcomes cs etc. The seminar <i>Biologieun</i> - n how to plan and design clas- n topics from the curriculum. The will translate the material to be s. At the same time, students wil n (as well as teaching aids) into ve type of school, and will delive
are pursuing <i>ds</i>) will acqua classroom ar cuss both tra and workshe theoretical in	ate seminars for each typ a teaching degree. Using aint students with specif d will assess these with ditional aids used in the ets etc.) and modern aid troduction to teaching a	pe of school; please se g examples from the cl fic teaching aids (origin regard to the media li biology classroom (m ls (computer simulatio ids, students will be a	elect the seminar for lassroom, the semir nals, preparations a teracy skills to be d odels, blackboard, ns, ppt presentation rranged into small t	d and discussed in class. There r the school type for which you nar <i>Unterrichtsmittel (Teaching A</i> and media) for use in the biology eveloped. The seminar will dis- OHP, transparencies, textbook ns etc.). After having received a eams that will deliver lessons of bous on a teaching aid of their
are pursuing <i>ds</i>) will acqua classroom ar cuss both tra and workshe theoretical in individual ph choice which	ate seminars for each typ a teaching degree. Using aint students with specif d will assess these with ditional aids used in the ets etc.) and modern aid troduction to teaching a ases of lessons on spec will subsequently be as	pe of school; please se g examples from the cl fic teaching aids (origin regard to the media lin biology classroom (m ls (computer simulatio ids, students will be a ific topics from the cur	elect the seminar for lassroom, the semir nals, preparations a teracy skills to be d odels, blackboard, ns, ppt presentation rranged into small t rriculum. They will for	r the school type for which you har Unterrichtsmittel (Teaching A and media) for use in the biology eveloped. The seminar will dis- OHP, transparencies, textbook hs etc.). After having received a eams that will deliver lessons o bous on a teaching aid of their
are pursuing <i>ds</i>) will acqua classroom ar cuss both tra and workshe theoretical in individual ph choice which Intended lea	ate seminars for each typ a teaching degree. Using aint students with specif d will assess these with ditional aids used in the ets etc.) and modern aid troduction to teaching a ases of lessons on spec	pe of school; please se g examples from the cl fic teaching aids (origin regard to the media lin biology classroom (m ls (computer simulatio ids, students will be a ific topics from the cur sessed with regard to	elect the seminar for lassroom, the semir nals, preparations a teracy skills to be d odels, blackboard, ns, ppt presentation rranged into small t rriculum. They will for	r the school type for which you har Unterrichtsmittel (Teaching A and media) for use in the biology eveloped. The seminar will dis- OHP, transparencies, textbook hs etc.). After having received a eams that will deliver lessons o bous on a teaching aid of their

LA Grundschulen Didactics in Biology (Primary	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 4 / 22
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 can be chosen to earn a bonus)

written examination (approx. 60 minutes) creditable for bonus

Allocation of places

Additional information

Workload

150 h

Teaching cycle

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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))

				Abbreviation		
Didactics Biology II: Special Didactics DG/DM 07-DGDM-FDBIO-2-152-mc					2-m01	
Module coordinator Module offered by						
head of group Didactics of Biology				Faculty of Biology		
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed		•		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
be arra ments, in class will thu lessons how stit tion to bitats, enviror opporti will pra pils in s Intendo • A • A • A • A • A • A • A	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. Intended learning outcomes Ability to define research methods in the natural sciences and to match these up with selected classroom experiments. Ability to define research methods in the natural sciences and to match these up with selected classroom experiments. Ability to define research methods in the natural sciences with nature in out-of-classroom learning environments as key elements of biology lessons. Ability to eval					
S (4)	s (type	, number of weekly conta	ict nours, language –	- II other than Germa	(11)	
Method ster, in portfoli credita Allocat	format io (app ble for ion of j onal inf	ormation			tion offered — if not eve	ery seme-
LA Grundso School) (20		lactics in Biology (Primary		enerated 18-Apr-2025 • exam undschulen (Didaktikfach) Bi	-	page 6 / 22

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 title					Abbreviation
Thesis	s in Biol	ogy (Grundschulen)			07-GS-DF-HA-152-m01
Modul	le coord	linator		Module offered by	<u> </u>
head o	of group	Didactics of Biology		Faculty of Biology	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
10	nume	rical grade			
Durati	on	Module level	Other prerequisites		
		undergraduate			
Conte	nts				
died w	vith a fo a giver	cus on teaching method	ology) may write their	Hausarbeit (thesis)	s their <i>Didaktikfach</i> (subject stu- for example in biology didactics. topic, applying the necessary me
Intend	led lear	ning outcomes			
didact on this	ic meth s thesis	ods appropriate to the ro , students will enhance t	espective topic. They their scientific writing	will present their find skills (structuring pa	hes and methods. They will use dings in a written thesis. Working apers, citing sources etc.).
		, number of weekly cont	act hours, language –	- if other than Germa	an)
		signed to module			
		sessment (type, scope, l ion on whether module o			ation offered — if not every seme-
writter	n thesis	(30 to 50 pages)	_		
Alloca	tion of	places			
Additi	onal inf	ormation			
Time to	o comp	lete: 10 weeks			
Workle	oad				
300 h					
Teachi	ing cycl	e			
	ed to in	LPOI (examination reg	ulations for teaching-o	degree programmes)	
 Referre	ed to in		ulations for teaching-o	degree programmes))
 Referr § 29	ed to in le appea	LPOI (examination reg	ulations for teaching-o	degree programmes)	

Module title				Abbreviation		
Excursion on Zoology or Botany I 07-LA-EXKURS1-152-mo1					07-LA-EXKURS1-152-m01	
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
		ulti-day botanical or zoolo s and animals in German		students will explore	e selected habitats and commu-	
Intende	ed learı	ning outcomes				
		amiliar with terrestrial plance the composition of t		nunities, their habita	at requirements as well as the fac-	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
Ü (2)						
Metho		sessment (type, scope, la on on whether module ca	• •		tion offered — if not every seme-	
b) oral c) term d) port	examin paper folio ts will l	mination (approx. 45 to 9 nation of one candidate e (approx. 10 to 30 pages) be informed about the mo bonus	ach (30 to 60 minute or		to the course.	
Allocat	ion of r	places				
Additio	nal inf	ormation				
/ durite						
Worklo						
	au					
60 h						
Teachi	ng cycl	е				
Referre	d to in	LPO I (examination regu	lations for teaching-	degree programmes)		
Module	e appea	irs in				
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 sta	First state examination for the teaching degree Realschule Biology (2015)					
	First state examination for the teaching degree Gymnasium Biology (2015)					
			- ,		ology (Middle School) (2015)	
		mination for the teaching	-			
		mination for the teaching	-		_	
			-		ungsordnungsversion 2015)) ology (Middle School) (2020	
		iungsversion 2015))	Succision Solucipaua	SUSIN DIVACULS III DI	orogy (minute school) (2020	
			g degree Mittelschule	Didactics in Biology	v (Middle School) (2020 (Prü-	
		sversion 2015))				

Module title				Abbreviation		
Excursion on Zoology or Botany II 07-LA-EXKURS2-152-mo1					07-LA-EXKURS2-152-m01	
Module coordinator Module offered by						
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
4	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
		ulti-day botanical or zoolo s and animals in German		students will explore	e selected habitats and commu-	
Intende	ed lear	ning outcomes				
		amiliar with terrestrial pla ence the composition of t		nunities, their habita	at requirements as well as the fac-	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
Ü (4)						
Metho		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) oral c) term d) port	examir paper folio ıts will	mination (approx. 45 to 9 nation of one candidate e (approx. 10 to 30 pages) be informed about the mo bonus	ach (30 to 60 minute or		to the course.	
Allocat	ion of j	olaces				
Additio	nal inf	ormation				
Worklo	ad					
120 h						
Teachi		•				
Teacini	ig cyci	C				
			l			
Referre		LPO I (examination regu	lations for teaching-o	legree programmes)		
Module						
		mination for the teaching	-		(Drimony Cabaal) (aava)	
	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 Gymnasium Biology (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015)					
		mination for the teaching	- ,			
		mination for the teaching	-		(Middle School) (2015)	
First sta	ate exa	mination for the teaching	g degree Mittelschule	Biology (2020 (Prüf	ungsordnungsversion 2015))	
		-	g degree Sonderpäda	gogik Didactics in Bi	ology (Middle School) (2020	
	-	ungsversion 2015))	de sur a satur de de de			
		mination for the teaching sversion 2015))	g aegree <i>i</i> nitteischule	Didactics in Biology	r (Middle School) (2020 (Prü-	

					Abbreviation		
Extrac	Extracurricular Places of Learning in Biology 07-LA-FB-ASL-152-mo1						
Module coordinator Module offered by				Module offered by			
head of group Didactics of Biology			Faculty of Biology				
ECTS Method of grading Only after succ. compl. of module(s)							
5		ssfully completed					
Duratio	·	ule level	Other prerequisites				
		ergraduate					
1 semester undergraduate Contents The seminar Umweltbildung (Environmental Education) 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 PraxisPlus im LLL (Teach'n'Learn Lab: Intensive Practice), 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 Biologiedidaktische Forschung (Research in Biology Didactics), students will gain an overview of topics in current research on biology didactics and will become proficient in techniques for measuring the progress of pupils in acquiring knowledge and skills. Intended learning outcomes • Familiarity with current as well as older approaches to environmental education and ability to identify the factors that may encourage pupils to act responsibly towards nature. • Ability to design experience-based lessons on these topics that are tailored to the age of pupils as well as to the respective type of school and local conditions. • Ability to didactically adapt selected research methods for the age group students are teaching and the type of school at which they are teaching.							
Course	es (type, num	ber of weekly cont	act hours, language –	- if other than Germa	ın)		
S (2) +			_				
			anguage — if other the chosen to earn		tion offered — if not	every seme-	
 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							
Teachi	Teaching cycle						
		(ovamination to -	ulations for tooshing	dogroo programmes)			
Reieffe		examination reg	ulations for teaching-o	uegree programmes)			
LA Grunds School) (20	chulen Didactics ir 015)	n Biology (Primary		enerated 18-Apr-2025 • exam undschulen (Didaktikfach) Bio	-	page 11 / 22	

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				
Habitats of Germany 07-LA-FB-EL-152-m01								
Module coordinator Module offered by								
head of group Didactics of Biology Faculty of Biology								
ECTS Method of grading		after succ. con	npl. of module(s)					
5 (not) successfully complet	ed							
Duration Module level	Other	prerequisites						
2 semester undergraduate								
Contents								
will provide students with an opport vironments" in more detail. The co- dents will adapt existing teaching liver the respective units to groups tre, and will subsequently evaluate a concrete topic related to the resp pupils' affective, methodological a	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 pupils' affective, methodological and cognitive skills.							
Intended learning outcomes								
 Ability to develop activity-be that are tailored to the targe Ability to independently orga Ability to critically reflect on sideration. 	group as w nise and ru	vell as ability t in project day	o adapt and evaluat s.	e lessons.				
Courses (type, number of weekly c	ontact hour	rs, language –	- if other than Germa	n)				
Ü (3)								
Method of assessment (type, scop ster, information on whether modu				tion offered — if not	every seme-			
a) written examination (approx. 45 b) oral examination of one candida c) term paper (approx. 10 to 30 pay d) portfolio Students will be informed about th creditable for bonus	te each (3c ges) or	o to 60 minute		to the course.				
Allocation of places								
Additional information								
Workload								
150 h								
Teaching cycle								
Referred to in LPO I (examination regulations for teaching-degree programmes)								
§ 36 Nr. 7								
Module appears in								
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)								
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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	e title				Abbreviation	
Skills Orientated Learning in Biology					07-LA-FB-KO-152-m01	
Module	e coord	inator		Module offered by		
head o	of group	Didactics of Biology		Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)		
5	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	undergraduate				
Conten	nts					
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 Gesundheitserziehung (Health Education), 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 Motiviere und disziplinierte Schüler im Biologie-unterricht (Motivation and Discipline in the Biology Classroom), 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 Kompetenzorientierte Unterrichtsmodelle am Beispiel HOBOS (Skill-Oriented Instructional Models: the HOBOS Learning Platform) will provide you with an introduction to the HOBOS learning platform and will acquaint you with the concepts of skill-oriented Instructional Models: the HOBOS Learning Platform) will provide you with an introduction to the HOBOS learning platform and will acquaint you with the concepts of skill-oriented instructional models that will allow you to do so. Intended 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 s					
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (2) +	S (2)					
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
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	tion of p	places				
Additio	onal inf	ormation				
L						

Workload

150 h

Teaching cycle

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		
Advanced Didactics in Biology 07-LA-FB-VFD-152					07-LA-FB-VFD-152-m01	
Module	e coord	inator		Module offered by		
head o	f group	Didactics of Biology		Faculty of Biology		
ECTS		od of grading	Only after succ. com	pl. of module(s)		
4	(not) s	successfully completed		•		
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
This mo	odule w	vill provide students with	in-depth insights into	o the theory and pra	ctice of biology didactics.	
		ning outcomes	·			
	ts will I		amental knowledge t	hey have acquired to	o a range of aspects of biology di-	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (2)		, <u>, , , , , , , , , , , , , , , , , , </u>	, , , , , , , , , , , , , , , , , , , ,		·	
. ,	l of ass	essment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
		on on whether module ca				
b) oral c) term d) porti	examin paper folio ts will l	mination (approx. 45 to 9 nation of one candidate e (approx. 10 to 30 pages) be informed about the me bonus	ach (30 to 60 minute or		to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
120 h						
		•				
Teachi	ig cycl	e				
 D - f	J 4		1 - 4 ¹ - 11 - 6 - 11 + 11 +			
Referre	a to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
		•				
Module						
		mination for the teaching mination for the teaching	-		(Primary School) (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 sta	First state examination for the teaching degree Gymnasium Biology (2015)					
	First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015)					
		mination for the teaching	-			
		mination for the teaching	-			
		-	-		ungsordnungsversion 2015)) ology (Middle School) (2020	
		ungsversion 2015))	acgree Jonuerpaud		0105y (Milaule Jell001) (2020	
First sta	ate exa		degree Mittelschule	Didactics in Biology	(Middle School) (2020 (Prü-	

Module title				Abbreviation	
Additional Qualification MINT 2 07-LA-ZQN2-152-mo1					07-LA-ZQN2-152-m01
Module coordinator Module offer			Module offered by		
degree programme coordinator Biologie (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 seme	ster	undergraduate			
Conten	ts				
skills (A science	ASQ) ar es. The	nd that provide students v	with an opportunity to d by the University of	o strengthen their ge Würzburg or by exte	ne pool of general transferable eneral background in the natural rnal institutions. Decision on cre- day courses.
Intende	ed learı	ning outcomes			
					ced their general scientific skills. areas other than biology.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
S (2)		,			·
Method		e essment (type, scope, la on on whether module ca			tion offered — if not every seme-
written credita		nation (approx. 60 minute bonus	es)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	9			
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
		<u> </u>	0	<u> </u>	
Module	e appea	irs in			
First sta First sta First sta First sta First sta First sta First sta (Prüfun First sta	ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa gsordn ate exa	mination for the teaching mination for the teaching mination for the teaching mination for the teaching ungsversion 2015))	g degree Grundschule g degree Realschule B g degree Gymnasium g degree Sonderpädag g degree Mittelschule g degree Mittelschule g degree Mittelschule g degree Sonderpädag	Didactics in Biology Biology (2015) Biology (2015) gogik Didactics in Biology (2015) Didactics in Biology Biology (2020 (Prüfu gogik Didactics in Biology	ology (Middle School) (2015)

Module title					Abbreviation	
Additional Qualification MINT 3 07-LA-ZQN3-152-mo1						
Module coordinator				Module offered by		
degree	degree programme coordinator Biologie		e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
3	(not) s	successfully completed				
Duration Module level Other prere			Other prerequisites			
1 seme	ster	undergraduate	-			
Conten	ts					
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 courses with 1 weekly contact hour.						
Intende	ed learı	ning outcomes				
					ced their general scientific skills. areas other than biology.	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (3)		,			·	
Metho		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-	
written credita		nation (approx. 60 minute bonus	es)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
First sta First sta First sta First sta First sta First sta (Prüfun First sta	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 (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))					

Module title					Abbreviation	
Additional Qualification MINT 4 07-LA-ZQN4-152-mo1						
Module coordinator				Module offered by		
degree	degree programme coordinator Biologie		e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
4	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
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.						
Intende	ed learı	ning outcomes				
					ced their general scientific skills. areas other than biology.	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (4)					·	
Metho		essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
written credita		nation (approx. 60 minuto bonus	es)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
120 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)		
Module appears in						
First sta First sta First sta First sta First sta First sta First sta (Prüfun First sta	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)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))					

Module title					Abbreviation	
Additional Qualification MINT 5 07-LA-ZQN5-152-mo1						
Module coordinator				Module offered by		
degree	degree programme coordinator Biologie		e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
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.						
Intende	ed learı	ning outcomes				
					ced their general scientific skills. areas other than biology.	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (4)						
Method		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
written credita		nation (approx. 60 minuto bonus	es)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
First sta First sta First sta First sta First sta First sta (Prüfun First sta	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 (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015))					

Module title					Abbreviation	
Additional Qualification MINT 6 07-LA-ZQN6-152-mo1						
Module coordinator				Module offered by		
degree programme coordinator Biologi		e (Biology)	Faculty of Biology			
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
	Contents					
Courses in the natural sciences not offered as part of the pool of general transferable skills (ASQ) that equip stu- dents with advanced knowledge in the natural sciences that is related to their discipline. These courses may be offered by the University of Würzburg or by external institutions. Decision on credit transfer to be made by exami- nation committee.						
Intende	ed learn	ning outcomes				
		e developed an improved e acquired additional exp			nced their specific qualificati- eir field.	
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (4)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)						
written credita		nation (approx. 60 minute bonus	es)			
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
-						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
First sta First sta First sta First sta First sta First sta (Prüfun First sta	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 (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prü-					
Tungsol	fungsordnungsversion 2015))					