

Subdivided Module Catalogue for the Subject

Biology

as Unterrichtsfach 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|026|-|-|H|2015

45

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.

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The subject is divided into

Abbreviation	Abbreviation Module title		ECTS Metho		d of	page
			credits	gradi	ng	
Scientific Discipline (54 E	CTS credits)				
Compulsory Courses (54	ECTS credi	ts)		1		
07-LA-BIO1-ZE-152-	Structure a	nd Function of Cells	4	NUM	N	22
0/-LA-BI01-PF-152-	Plant Kingo	lom	4	NUM	Ν	21
07-1 A-1A1TI-152-m01	Evolution a	nd the Animal Kingdom			Л	18
07-GMP-DHVDF-152-			5		VI	10
m01	Plant Physi	ology - GMR	4	NUM	Ν	15
07-I A-2A2PHY-						
TI-152-m01	Animal Phy	nimal Physiology		NUM	N	20
07-GMR-OE-						
KO-152-m01	Plant and A	nimal Ecology - GMR	5	NUN	N	14
07-GMR-GV-152-m01	Genetics a	nd Behaviour	5	NUM	N	11
07-LA-FLORA-152-m01	The Flora o	f Germany	5	NUM	N	33
07-LA-FAUNA-152-m01	The Fauna	of Germany	5	NUM	N	25
o7-LA-HU-					_	
BIO-2-152-m01	Basic Human Biology II		5	B/NB	35	
07-GMR-HU-	Designation	- Diala - CMD			D	
BIO-1-152-m01	Basic Hum	an Biology I - GMR	4	B/N	В	12
07-GMR-MIBI-152-m01	Advanced I	Microbiology - GMR	4	NUM	N	13
Teaching (12 ECTS credits)						
Compulsory Courses (12	ECTS credi	ts)				
07-GMR-FD-	Didactics is	Piology & Pacies CMP	6	NILIA		_
BIO-1-152-m01		Didactics in Biology I: Basics GMR		NUM	VI	/
07-GMR-FD-	Didactics B	iology II: Special Didactics GMR	/ II: Special Didactics GMR 6 B/N	B	0	
BIO-2-152-m01		iology in Special Didactics diffe	0	D/N	D	9
Paper (4 ECTS credits)						
Students studying for a teaching degree Grundschule must complete a practical training in didactics and teaching methodo- logy (studienbegleitendes fachdidaktisches Praktikum) which refers to one of the subjects they selected as vertieft studiertes Fach (subject studied with a focus on the scientific discipline) pursuant to Section 34 Subsection 1 No. 4 LPO I (examination regulations for teaching-degree programmes). The obligatory accompanying tutorial is offered by the respective subject. The ECTS credits obtained are counted in the subject Erziehungswissenschaften pursuant to Section 10 Subsection 3 LASPO (ge- neral academic and examination regulations for teaching-degree programms).					hodo- diertes ation t. The O (ge-	
07-GS-EDSD-152-mot	Practical Tr	aining in Didactics and Teaching Methodology and			R	
07-03-1031-152-1101	accompany	ring tutorial in Biology (Grundschulen)	4	D/ND		10
Freier Bereich (general as we	ll as subjec	t-specific electives)				
Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as sub- ject-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 An- nex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".						
Biology						
(Freier Bereich (general as well as subject-specific electives) subject specific)			D			
07-SUF-IFB3-152-M01	Supervising Tutorial for Basic Courses 3 3		B/N	ы Б	41	
07-SQF-IFB4-152-m01	Supervising	g Tutorial for Basic Courses 4	4	B/N	р В	42
07-SQF-IFB5-152-m01	Supervising	g Tutorial for Basic Courses 5	5	B/N	Б	43
07-5UF-15B2-152-M01	Supervising	g Tutorial for Biology 2	2	B/N	D nage	44
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07-SQF-TSB3-152-m01	Supervising Tutorial for Biology 3	3	B/NB	45
07-LA-ZQN2-152-m01	Additional Qualification MINT 2	2	B/NB	36
07-LA-ZQN3-152-m01	Additional Qualification MINT 3	3	B/NB	37
07-LA-ZQN4-152-m01	Additional Qualification MINT 4	4	B/NB	38
07-LA-ZQN5-152-m01	Additional Qualification MINT 5	5	B/NB	39
07-LA-ZQN6-152-m01	Additional Qualification MINT 6	5	B/NB	40
07-4S1MEER-152-m01	Ecology and Developmental Biology of Marine Organisms	5	NUM	5
07-LA-EXKURS1-152-m01	Excursion on Zoology or Botany I	2	B/NB	23
07-LA-EXKURS2-152-m01	Excursion on Zoology or Botany II	4	B/NB	24
07-LA-FB-ASL-152-m01	Extracurricular Places of Learning in Biology	5	B/NB	26
07-LA-FB-KO-152-m01	Skills Orientated Learning in Biology	5	B/NB	30
07-LA-FB-EL-152-m01	Habitats of Germany	5	B/NB	28
07-LA-FB-VFD-152-m01	Advanced Didactics in Biology	4	B/NB	32

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.

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Module title			Abbreviation		
Ecology and Developmental Biology of Marine Organisms			07-4S1MEER-152-m01		
Module coordinator		Module offered by			
head o	f the Department of Electronmic	roscopy	Faculty of Biology		
ECTS	Method of grading	Only after succ. com	npl. of module(s)		
5	numerical grade				
Duratio	on Module level	Other prerequisites			
1 seme	ester undergraduate				
Conten	its				
A comb mal div Sea.	pination of lab work and field triversity of a marine ecosystem ar	ps, this module will p nd into the biocenosis	rovide students with s of the littoral of the	an insight both into the organis- island of Helgoland in the North	
Intend	ed learning outcomes				
Studen In addi	nts will have enhanced their kno ition, they will have learned how	wledge of form as we to systematically col	ll as their understan llect ecological field	ding of concepts in synecology. data.	
Course	es (type, number of weekly conta	act hours, language —	- if other than Germa	n)	
Ü (4) +	E(2) + S(2)				
Metho ster, in	d of assessment (type, scope, la formation on whether module c	anguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
Log (ap credita	oprox. 10 to 20 pages) ble for bonus				
Allocat	tion of places				
18 plac	2es				
Should the number of applications exceed the number of available places, places will be allocated as follows: Students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits will be given preferential con- sideration. Should the module be used in other subjects, there will be two quotas: 95% of places will be alloca- ted to students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits and 5% of places (a mi- nimum of one place in total) will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 60 ECTS credits and to students of the Bachelor's degree subjects Computational Mathematics and Mathematik (Mathematics), each with 180 ECTS credits, as part of the application-oriented subject Biology (as well as poten- tially to students of other 'importing' subjects). Should the number of places available in one quota exceed the number of applications, the remaining places will be allocated to applicants from the other quota. Should there be, within one module, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module. In this case, places on all courses of a module that are concerned will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.					
A waiting list will be maintained and places re-allocated as they become available. Selection process group 1 (95%): Places will primarily be allocated according to the applicants' previous acade- mic achievements.					
Selection process group 1 (95%): Places will primarily be allocated according to the applicants' previous acade- mic achievements. For this purpose, applicants will be ranked according to the number of ECTS credits they have achieved and their average grade of all assessments taken in all modules in the subject of Biologie (Biology) (excluding Chemie (Chemistry), Physik (Physics), Mathematik (Mathematics)) at the time of application. This will be done as fol- lows: First, applicants will be ranked, firstly, according to their average grade weighted according to the num- ber of ECTS credits (qualitative ranking) and, secondly, according to their total number of ECTS credits achieved (quantitative ranking). The applicants' position in a third ranking will be calculated as the sum of these two ran- kings, and places will be allocated according to this third ranking. Among applicants with the same ranking, places will be allocated according to the qualitative ranking or otherwi- se by lot. Selection process group 2 (5%): Places will be allocated according to the following quotas: Quota 1 (50 % of pla- ces): total number of ECTS credits already achieved in modules of the Faculty of Biology; among applicants with					

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places will be allocated by lot. Quota 3 (25 % of places): lottery. Should the module be used only in the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits, places will be allocated according to the selection process of group 1.

Additional information

Workload

150 h

Teaching cycle

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

Module appears in

Bachelor's degree (1 major) Biology (2015)

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

Bachelor's degree (1 major) Biology (2017)

First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

Bachelor's degree (1 major) Biology (2021)

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)

Bachelor's degree (1 major) Biology (2022)

exchange program Biosciences (2022)

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Module ti	tle			Abbreviation	
Didactics in Biology I: Basics GMR			07-GMR-FDBIO-1-152-m01		
				-,	
Module co	oordinator		Module offered by		
head of gr	roup Didactics of Biology		Faculty of Biology		
ECTS M	lethod of grading	Only after succ. com	pl. of module(s)		
6 ni	umerical grade				
Duration	Module level	Other prerequisites			
1 semeste	er undergraduate				
Contents					
The lecture <i>Einführung in die Fachdidaktik Biologie (Introduction to Biology Didactics</i>) will discuss central con- cepts and principles of biology lessons as well as methods in biology and teaching aids. Building on this know- ledge, students will learn how to outline problem-based biology lessons. The course will discuss topics such as modes of interaction in the classroom, teaching methods and approaches, the definition of learning outcomes, out-of-classroom learning environments, topics and theories in biology didactics etc. The seminar <i>Biologieun-</i> <i>terricht (The Biology Classroom</i>) will equip students with detailed knowledge on how to plan and design clas- ses for the respective type of school. Students will prepare didactic analyses on topics from the curriculum. They will discuss general aspects of curriculum theory and, working in small teams, will translate the material to be taught, in a didactically reduced manner, into teaching sequences and lessons. At the same time, students will integrate different teaching methods and modes of interaction in the classroom (as well as teaching aids) into their lessons, keeping in mind what is and what is not possible in the respective type of school, and will deliver their lessons or parts of these in the seminar. Didactic aspects will be evaluated and discussed in class. There will be separate seminars for each type of school; please select the seminar for the school type for which you are pursuing a teaching degree. Using examples from the classroom, the seminar <i>Unterrichtsmittel (Teaching Ai- ds</i>) will acquaint students with specific teaching aids (originals, preparations and media) for use in the biology classroom and will assess these with regard to the media literacy skills to be developed. The seminar will dis- cuss both traditional aids used in the biology classroom (models, blackboard, OHP, transparencies, textbook and worksheets etc.) and modern aids (computer simulations, ppt presentations etc.). After having received a theoretical introduction to t					
Intended	learning outcomes	<u></u>			
 Intended learning outcomes Familiarity with relevant aspects of biology didactics Ability to design lively biology lessons, using original objects and teaching aids. Ability to use methods in biology in a way that promotes the learning processes of pupils. Familiarity with both biology-specific and interdisciplinary topics from the curriculum for the respective type of school. Ability to prepare scientific analyses on selected topics from the curriculum for the respective type of school and to subsequently present these topics in a manner that is tailored to the target group. Ability to prepare didactic analyses on topics from the curriculum for the respective type of school. Ability to prepare didactic analyses on topics from the curriculum for the respective type of school. Ability to translate, with the help of didactic analyses, selected topics from the curriculum into teaching sequences and lessons as well as to deliver these teaching sequences and lessons, applying problem-based and/or open teaching methods. Knowledge of the fact that the term "teaching aids in the biology classroom" refers to originals, preparations and media. Familiarity with a biology-specific, didactic definition of the term "media". 					

- familiarity with the limitations and problems associated with the use of media in the classroom.
- Practical skills using media of all kinds (hardware side).
- Ability to independently prepare teaching aids.
- Ability to use teaching aids in classroom situations in a way that is appropriate for pupils and the material taught.

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• 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

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Additional information

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Workload

180 h

Teaching cycle

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

§ 41 | Nr. 6

Module appears in

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

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

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

First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

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Module title			Abbreviation			
Didactics Biology II: Special Didactics GMR 07-GMR-FDBIO-2-152-m01						
Module coordinator Mo				Module offered by		
head o	f group	Didactics of Biology		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
6	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ester	undergraduate				
Conter	nts					
 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 implement experiments typically performed in the biology classroom and to integrate them into activity and problem-based lessons. Ability to evaluate the significance of original encounters with nature in out-of-classroom learning environments as seearch 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						
Course	s (type	, number of weekly cor	itact nours, language –	- If other than Germa	in)	
S (2) + S (2) 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)						
portfolio (approx. 30 hours) creditable for bonus						
Allocation of places						
Additional information						
Workload						
180 h						
Teachi	ng cycl	e				
LA Grunds	chulen Bio	logy (2015)	JMU Würzburg • g cord Lehramt Grui	enerated 18-Apr-2025 • exam ndschulen (Unterrichtsfach) E	n. reg. data re- Biologie - 2015	

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

§ 41 | Nr. 6

Module appears in

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

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

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

First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

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Genetics and Behaviour O7-GMR-GV-152-mod Module coordinator Module offered by Dean of Studies Biologie (Biology) Faculty of Biology ECTS Meth→ of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester undergraduate				
Module coordinator Module offered by Dean of Studies Biologie (Biology) Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester undergraduate				
Dean of Studies Biologie (Biology) Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester undergraduate				
ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester undergraduate				
5 numerical grade Duration Module level Other prerequisites 1 semester undergraduate				
Duration Module level Other prerequisites 1 semester undergraduate				
1 semester undergraduate				
Contents				
Students will become familiar with classic Mendelian genetics as well as modern findings on the trans genetic information, potential errors in the transmission of genetic information and the respective co for the phenotype. The module will discuss the structural and molecular fundamentals of the DNA as structure of the eukaryotic genome. Building on this knowledge, the module will provide students wir view of methods in genetics. Having been simplified for teaching purposes, these methods will then in experiments on the model organism Drosophila melanogaster.				
Intended learning outcomes				
Students are able to recognise the DNA as a repository of information that is a key factor determining the pheno- type of an organisms. They understand that regulation is necessary during genome expression and recognise the principles behind the respective mechanisms. In addition, students are able to discuss methods in genetics as well as the relevance these have to medicine. They are able to differentiate between ultimate and proximate cau- ses of behaviour as well as to explain classical experiments in behavioural biology and the biology of learning. Students are also able to describe the fundamental principles of sociobiology and to evaluate the need for com-				
Courses (type, number of weekly contact hours, language — if other than German)				
V (1) + Ü (3.5)				
Method of assessment (type, scope, language — if other than German, examination offered — if not e ster, 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				
Referred to in LPO I (examination regulations for teaching-degree programmes)				
§ 41 Nr. 3 (3 ECTS credits), § 41 Nr. 4 (2 ECTS credits)				
Module appears in				
First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion				

Modul	e title				Abbreviation
Basic Human Biology I - GMR 07-GMR-HU				07-GMR-HUBIO-1-152-m01	
Modul	e coord	inator		Module offered by	
holder	ofthe	Chair of Cell Biology and	Developmental Bio-	Faculty of Biology	
logy			r		
ECTS	ECTS Method of grading Only after succ. compl. of module(s)				
4	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 semester undergraduate					
Conter	its				
• † • † • †	numan numan numan story of	genetics (genetic disease physiology (human senso developmental physiolog modern humans).	e, inheritance, the iss ory physiology, nutrit gy (sex organs, impre	ue of euthanasia), ion, maintaining phy gnation, embryonic	sical health), development, evolutionary hi-
Intend	ed lear	ning outcomes			
• F	amiliar	ity with the fundamental	principles of human	genetics	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
V (3)		· · ·			-
Metho ster, in	d of as format	sessment (type, scope, la ion on whether module ca	inguage — if other th an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
written credita	exami ble for	nation (approx. 60 to 90 bonus	minutes)		
Allocat	tion of _l	places			
Additio	onal inf	ormation			
Worklo	ad				
120 h	-				
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
§ 41 N	۱r. 5				
Modul	e appea	ars in			
First st First st First st First st	ate exa ate exa ate exa ate exa	mination for the teaching mination for the teaching mination for the teaching mination for the teaching	g degree Grundschule g degree Realschule E g degree Mittelschule g degree Mittelschule	e Biology (2015) Biology (2015) Biology (2015) Biology (2020 (Prüf	ungsordnungsversion 2015))

Advanced Microbiology - GMR 07-GMR-MIBI-152-m01 Module coordinator Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) ECTS Method of grading Only after succ. compl. of module(s) Isemester Indmerical grade Ontention Module level Other prerequisites 1 semester Indmergraduate Contents This module will provide students with an opportunity to deepen their knowledge and skills related to aspects awith the fundamental principles of the metabolic physiology of bactria and will team how to differentiate bactria according to their respective metabolic physiology of bactria and will team how to differentiate bactria with the fundamental principles of the metabolic physiology of bactria in the orthoacheater and eubacterial based on their respective Aracters. In addition, the module will discuss the use of microorganisms in industry and technology as well as the pathogenic properties of some species of microorganisms of the bacterial kingdom as well as some important representatives. A bility to name the different divisions of the bacterial kingdom as well as some important representatives. A bility to name the different divisions of the bacteria according to their metabolic performances of bacteria in the volving microorganisms and products of these. A bility to name the different divisions of the bacteria Cordinate A bility to name metabolic performances of bacteria Cord	Module	e title				Abbreviation
Module coordinator Module offered by holder of the Chair of Microbiology Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 4 numerical grade Duration Module level Other prerequisites 1 semester undergraduate Contents Contents Contents Contents Contents Contexts	Advanced Microbiology - GMR 07-GMR-MIBI-152-m01					
holder of the Chair of Microbiology Faculty of Biology ECTS Methad of grading Only after succ. compl. of module(s) 4 numerical grade Duration Module level Other prerequisites 1 semester undergraduate Contents This module will provide students with an opportunity to deepen their knowledge and skills related to aspects covered in <i>Die prokaryotifsche Zelle (The Prokaryotif Cell)</i> during their first semester. Students will become familiar with the fundamental principles of the metabolic performance. They will consolidate their knowledge related to the classification of bacteria into archaebacteria and eubacteria based on their respective characters. In addition, the module will discuss the use of microorganisms in industry and technology as well as the pathogenic properties of some species of microorganisms and the diseases caused by these. Intended learning outcomes	Module	e coordir	nator		Module offered by	
ECTS Method of grading Only after succ. compl. of module(s) 4 Inumerical grade Duration Module level Other prerequisites 1 semester undergraduate Contents Contents This module will provide students with an opportunity to deepen their knowledge and skills related to aspects covered in <i>Die prokaryotische Zelle</i> (<i>The Prokaryotic Cell</i>) during their first semester. Students will become familiar with the fundamental principles of the metabolic performance. They will consolidate their knowledge related to the classification of bacteria into archaebacteria and eubacteria based on their respective characters. In addition, the module will discuss the use of microorganisms in industry and technology as well as the pathogenic properties of some species of microorganisms and the disease caused by these. Intended learning outcomes • Familiarity with methods typically used in microbiology labs and ability to use these. • Knowledge of the difference between gram-negative and gram-positive bacteria. • Familiarity with methods for the differentiation of bacteria according to their metabolic performance. • Familiarity with methods for the differentiation of bacteria. • Courses (type, number of weekly contact hours, language – if other than German) Ü (2) Method of assessmen	holder	of the Cl	nair of Microbiology		Faculty of Biology	
4 numerical grade Duration Module level Other prerequisites 1 semester undergraduate This module will provide students with an opportunity to deepen their knowledge and skills related to aspects covered in <i>Die prokaryotische Zelle (The Prokaryotic Cell)</i> during their first semester. Students will become familiar with the fundamental principles of the metabolic physiology of bacteria and will become familiar with the indamental principles of the metabolic performance. They will consolidate their knowledge related to the classification of bacteria into archaebacteria and eubacteria based on their respective characters. In addition, the module will discuss the use of microorganisms in industry and technology as well as the pathogenic properties of some species of microorganisms of the bacteria law gram-positive bacteria. • Familiarity with methods typically used in microbiology labs and ability to use these. • Knowledge of the different divisions of the bacteria alkingdom as well as some important representatives. • Ability to name metabolic performances of bacteria. • Familiarity with methods for the differentiation of bacteria and unaccording to their metabolic performance. • Familiarity with numbeds for the differentiation of bacteria. • Ability to value the pathogenic potential of bacteria. • Ability to value the pathogenic potential of bacteria. • Courses (type, number of weekly contact hours, language — if other than German) 0 (2) Method of assessme	ECTS	Method	d of grading	Only after succ. con	pl. of module(s)	
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1 semester undergraduate Contents	Duratio	on /	Module level	Other prerequisites		
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This module will provide students with an opportunity to deepen their knowledge and skills related to aspects covered in <i>Die prokaryotische Zelle (The Prokaryotic Cell</i>) during their first semester. Students will become familiar arwith the fundamental principles of the metabolic physiology of bacteria and will learn how to differentiate bacteria according to their respective metabolic performance. They will consolidate their knowledge related to the classification of bacteria in to archaebacteria and eubacteria based on their respective characters. In addition, the module will discuss the use of microorganisms in industry and technology as well as the pathogenic properties of some species of microorganisms and the diseases caused by these. Intendel learning outcomes Familiarity with methods typically used in microbiology labs and ability to use these. Knowledge of the different divisions of the bacterial kingdom as well as some important representatives. Ability to name the different divisions of the bacteria. Familiarity with methods to be cateria play in nutrien tycles in nature. Familiarity with methods by context hours, language — if other than German) () (2) 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. 6 o minutes) creditable for bonus Allocation of places	Conten	its				
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Allocation of places Additional information Workload 120 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) § 41 Nr. 2 (2 ECTS credits), § 41 Nr. 3 (2 ECTS credits) Module appears in First state examination for the teaching degree Grundschule 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 (2015)	written	examina	ation (approx. 60 minute	es)		
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Referred to in LPO I (examination regulations for teaching-degree programmes)§ 41 Nr. 2 (2 ECTS credits), § 41 Nr. 3 (2 ECTS credits)Module appears inFirst state examination for the teaching degree Grundschule Biology (2015)First state examination for the teaching degree Realschule 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 (2015)First state examination for the teaching degree Mittelschule Biology (2015)						
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Module appears inFirst state examination for the teaching degree Grundschule Biology (2015)First state examination for the teaching degree Realschule Biology (2015)First state examination for the teaching degree Mittelschule Biology (2015)First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))	§ 41 N	Ir. 2 (2 E	CTS credits), § 41 Nr. 3	(2 ECTS credits)		
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First state examination for the teaching degree Realschule 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 sta	ate exarr	nination for the teaching	degree Grundschule	e 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 sta	ate exarr	ination for the teaching	degree Realschule E	Biology (2015)	
First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))	First sta	ate exam	nination for the teaching	degree Mittelschule	Biology (2015)	
	First sta	ate exarr	ination for the teaching	g aegree Mittelschule	BIOlogy (2020 (Prüfi	ungsordnungsversion 2015))

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module	e title				Abbreviation	
Plant a	nd Anir	nal Ecology - GMR			07-GMR-OEKO-152-m01	
Module	e coordi	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	numei	rical grade			-	
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
This mo and bio as on th model of of curre	odule w otic env ne struc concep ent ecol	vill provide students with ironments. The module w cture and dynamics of po ts of ecology and will acc logical problems.	an overview of the in vill focus on the funct pulations and ecosys puire the fundamenta	teractions of plants ional adaptation to stems. Students will l knowledge necessa	and animals with their abiotic environmental conditions as well be introduced to fundamental ary to develop an understanding	
Intende	d lear	ning outcomes				
Studen portant their er mental	ts are f abiotio vironm issues	amiliar with the fundame c and biotic factors that in nent. In addition, they hav	ental principles of res nfluence the distribut ve developed a funda	earch in the field of e tion and frequency o imental understandi	ecology and with the most im- f occurrence of organisms in ng of the assessment of environ-	
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
V (2) +	Ü (2)					
Methoo ster, inf	l of ass formati	e ssment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
written credita	examir ble for	nation (approx. 90 minuto bonus	es)			
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachir	ng cyclo	9				
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
§ 41 N	r. 4					
Module	e appea	irs in				
First sta First sta First sta First sta	ate exa ate exa ate exa ate exa	mination for the teaching mination for the teaching mination for the teaching mination for the teaching	g degree Grundschule g degree Realschule B g degree Mittelschule g degree Mittelschule	Biology (2015) iiology (2015) Biology (2015) Biology (2020 (Prüft	ungsordnungsversion 2015))	

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	cora Lenranit Grundschulen (Onternchistach) Biologie - 2015	

Module	title				Abbreviation
Plant Physiology - GMR 07-GMR-PHYPF-152-mo1					07-GMR-PHYPF-152-m01
Module	coord	inator		Module offered by	
holder	of the C	hair of Botany I		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Conten	ts				
This mo vide the course are coo detail.	odule w em with will firs rdinate	all acquaint students with an opportunity to becon t explain the biochemica d. In addition, the physic	n the principles of ge ne proficient in the m l bases of the reactio ological processes th	neral and comparati ethods applied in p ns within plant cells at are characteristic	ve plant physiology and will pro- hysiological laboratories. The s as well as how these reactions of plants will be investigated in
Intende	d learr	ning outcomes			
Student rent me	ts acqu thods.	ire an overview of cutting	g edge research in the	eir field as well as ar	n understanding of new and cur-
Courses	s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)
Ü (2)					
Method ster, inf	l of ass ormati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
written credital	examir ole for	nation (approx. 60 minute bonus	es)		
Allocati	ion of p	laces			
Additio	nal info	ormation			
Worklo	ad				
120 h					
Teachin	ig cycle	9			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
§ 41 N	r. 2		5	_ , 0 /	
Module	appea	rs in			
First sta	ite exa	mination for the teaching	degree Grundschule	Biology (2015)	
First sta	ite exa	nination for the teaching	degree Realschule B	iology (2015)	
First sta	ite exa	mination for the teaching	degree Mittelschule	Biology (2015)	
First sta	First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))				

Module	title				Abbreviation
Practica	al Train	ing in Didactics and Tea	ching Methodology a	and accompanying	07-GS-FDSP-152-m01
tutorial	in Bio	logy (Grundschulen)			
Module	coord	inator		Module offered by	
head of	fgroup	Didactics of Biology		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4 (not) successfully completed					
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Contents					
The one sches P ty to ma chers a ences t They wi what th	e-seme Praktiku ake sub ct in th hey ma Il also ev hav	ster practical training in o um) for students pursuing oject-specific observatior e classroom. In the cours ide at school in detail an acquire an advanced kno e learned, delivering seve	didactics and teaching a teaching degree <i>G</i> is, under the guidanc se accompanying the d will become familia weledge on how to pla eral lessons to their p	g methodology (<i>stud</i> <i>rundschule</i> will prov e of an experienced practical training, st r with fundamental an, structure and de placement classes an	vide students with an opportuni- teacher, of how pupils and tea- tudents will analyse the experi- principles of biology didactics. liver lessons and will implement nd preparing didactic analyses.
Intende	Intended learning outcomes				
- Knowledge on how to structure problem-based biology lessons. Overview of teaching methods, modes of inter- action in the classroom, teaching aids as well as methods in biology. Insight into the diverse range of tasks a te- acher's job includes. Ability to translate topics from the curriculum, in a didactically reduced manner, into tea- ching sequences, teaching units and lessons. Ability to deliver the respective lessons to a group of pupils.					
Courses	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	in)
S (2) +	P (4)				
Method ster, inf	l of ass formati	e ssment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
term pa Particip credital	per (15 ation i ble for	, to 20 pages) n mandatory teaching pra bonus	actice, completion of	all set tasks as spec	cified by the placement school.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
120 h					
Teachir	ng cycl	9			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
§ 34 S	. 1 Nr. 2	4			
Module	appea	in			
First sta	ate exa	mination for the teaching	degree Grundschule	Educational Scienc	e (2015)

cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re- cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	page 16 / 45
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Module	e title				Abbreviation	
Thesis	in Biol	ogy (Grundschulen)			07-GS-UF-HA-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS Method of grading Only after succ. compl. of module(s)						
10	nume	rical grade				
Duration Module level		Module level	Other prerequisites	Other prerequisites		
		undergraduate				
Conten	ts					
Studen studied subject pic, app	ts purs I with a t discip plying t	uing a teaching degree G I focus on the scientific d line of biology. Within a s he necessary methods.	<i>rundschule</i> who have iscipline) may write t given time frame, stu	e selected biology as heir <i>Hausarbeit</i> (the dents will independe	s their <i>Unterrichtsfach</i> (subject sis) in biology didactics or in a ently research and write on a to-	
Intende	ed lear	ning outcomes				
Studen didactio sis. Wo etc.).	ts will c or sci rking o	be able to address a defin entific methods appropri n this thesis, students w	ned problem, applyin ate to the respective ill enhance their scie	g scientific approact topic. They will pres ntific writing skills (s	hes and methods. They will use ent their findings in a written the- structuring papers, citing sources	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
No cou	rses as	signed to module				
Methoo ster, in	d of ass formati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
written	thesis	(30 to 50 pages)				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
§ 29						
Module	e appea	ars in				
First sta	ate exa	mination for the teaching	g degree Grundschule	Biology (2015)		

Module title				Abbreviation		
Evoluti	on and the Anima	l Kingdom			07-LA-1A1TI-152-m0	1
Module	e coordinator			Module offered by		
Dean o	f Studies Biologie	(Biology)	·	Faculty of Biology		
ECTS	Method of gradin	ng	Only after succ. con	pl. of module(s)		
5	numerical grade					
Duratio	n Module le	vel	Other prerequisites			
1 seme	ster undergrad	luate	<u> </u>			
The lec gy: the with an the sys tion an nisms of logical functio of the f medicin and will animal will acc have se Intende Studen that the animal nal anc	gy: the origins of diversity; natural and sexual selection; speciation; population genetics. It will provide students with an introduction to phylogenetic reconstruction and will thus enable them to develop an understanding of the system of plants and animals. During the exercise, students will complete exercises on mechanistic evolution and evolutionary history. The lecture <i>Tierreich (Animal Kingdom)</i> will discuss the diversity of animal organisms on the basis of the phyla of the animal kingdom focusing on phylogenetic criteria. It will address the ecological constraints that led to the development of different types of body plans with their different structures and functions. In this context, the lecture will also develop an awareness in students of how important a knowledge of the fundamental principles of zoology is for research and applications not only but in particular in biology and medicine. In the exercise, students will prepare and/or examine selected species and histological preparations and will thus become familiar with the functional and morphological characteristics of the major multicellular animal phyla. In this context, students will prepare drawings, documenting and interpreting what they have seen. Intended learning outcomes Students will be familiar with the fundamental concepts and mechanisms of evolutionary biology and will know that these are key to understanding biological processes. They will have gained an overview of the diversity of animals on the basis of different types of body plans and will understand important structures in both a functional and an ecological context.					
Course	s (type, number of	f weekly cont	act hours, language –	if other than Germa	n)	
V (2) +	Ü (3)	,				
Method ster, in	d of assessment (t formation on whet	type, scope, l ther module c	anguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not	every seme-
written credita	examination (app ble for bonus	orox. 60 minu	tes)			
Allocat	ion of places					
Additio	nal information					
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in LPO I (exa	mination reg	ulations for teaching-o	legree programmes)		
<pre>§ 41 Nr. 1 (4 ECTS credits) § 41 Nr. 4 (1 ECTS credits) § 61 Nr. 1 (4 ECTS credits) § 61 Nr. 4 (1 ECTS credits)</pre>						
Module	e appears in					
LA Grundsc	hulen Biology (2015)		JMU Würzburg ● go cord Lehramt Grur	enerated 18-Apr-2025 • exam dschulen (Unterrichtsfach) B	. reg. data re- iologie - 2015	page 18 / 45

First state examination for the teaching degree Grundschule Biology (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 Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 19 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title			Abbreviation			
Animal	Animal Physiology 07-LA-2A2PHYTI-152-mo1					
Module	e coord	inator		Module offered by		
holder	holder of the Chair of Behavioral Physiology and Sociobio-			Faculty of Biology		
logy			r			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
4	nume	rical grade				
Duratio	on stor	Module level	Other prerequisites			
Conten	ts					
provide module ration a	e them e will fo and exc	vill acquaint students wit with an opportunity to de icus on neurophysiology retion).	h the principles of ge evelop the fundamen and sensory physiolo	neral and comparati tal skills for working ogy as well as aspect	ve animal physiology and will in a physiological laboratory. The s of metabolic physiology (respi-	
Intende	ed lear	ning outcomes				
Studen ve acqu	ts have uired fu	e developed an understa Indamental knowledge o	nding of the physiolo n planning, setup, int	gical functions and r erpretation and pres	egulation of organisms. They ha- sentation of scientific results.	
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)	
V (1) +	Ü (2)		-			
Method ster, in	d of ass formati	essment (type, scope, la on on whether module ca	inguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
written credita	examiı ble for	nation (approx. 60 minut 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-	legree programmes)		
§ 41 N § 61 N	r. 2 Ir. 2			i		
Module	e appea	urs in				
First sta	ate exa	mination for the teaching	g degree Grundschule	e Biology (2015)		
First sta	First state examination for the teaching degree Realschule Biology (2015)					
First sta	ate exa	mination for the teaching	g degree Gymnasium	Biology (2015)		
First sta	ale exa	mination for the teaching	s uegree Mittelschule degree Mittelschule	Biology (2015) Biology (2020 (Prüfi	ungsordnungsversion 2015))	
115151	First state examination for the teaching degree Mittelschute blotogy (2020 (Profulligsofullungsversion 2015))					

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 20 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title			Abbreviation			
Plant K	lingdor	n			07-LA-BIO1-PF-152-m01	
Module	Module coordinator			Module offered by		
holder of the Chair of Plant Physiology and Biophysics		and Biophysics	Faculty of Biology			
ECTS Method of grading Only after succ.		Only after succ. com	pl. of module(s)			
4 numerical grade						
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
The lecture will discuss the evolution and systematics of plants and fungi as well as the anatomy of higher plants. Students will acquire a fundamental knowledge of the major cell and tissue types of higher plants from germination to reproduction. In addition, important groups of fungi, algae, mosses and vascular plants will be discussed in the context of evolutionary biology. Using the example of selected species, the course will investigate the anatomy and evolutionary biology of lower and higher plants. In this context, students will practise working with light microscopes and magnifying glasses and will acquire fundamental preparation skills. They will prepare drawings, documenting and interpreting what they have seen. Media aids will also be used in the exerci-						
Intend	ed lear	ning outcomes				
Studen ecolog	its have ical lab	e acquired an advanced k and field experiments as	nowledge in the area well as to interpret a	of animal ecology. T and present their find	They are able to design simple Jings.	
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
V (1.5)	+ Ü (2.	5)				
Metho ster, in	d of as formati	s essment (type, scope, la ion on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
written credita	exami ble for	nation (approx. 60 minut bonus	es)			
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Worklo	ad					
120 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regu	lations for teaching-o	legree programmes)		
§ 41 N § 61 N	§ 41 Nr. 1 § 61 Nr. 1					
Module appears in						
First sta First sta First sta First sta First sta	First state examination for the teaching degree Grundschule Biology (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 Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))					

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

LA Grundschulen Biology (2015)

Module title				Abbreviation		
Structu	Structure and Function of Cells 07-LA-BIO1-ZE-152-mo1					
Modul	e coordinator			Module offered by		
holder	of the Chair of Botany I			Faculty of Biology		
ECTS	Method of grading		Only after succ. com	pl. of module(s)		
4	numerical grade					
Duratio	on Module level		Other prerequisites			
1 seme	ster undergraduate					
Conter	Contents					
The first part of this lecture series will provide you with an overview of the physical and chemical bases of life. We will then explore the internal organisation and the morphology of the cell, the fundamental unit of life. In this context, we will discuss the "general" functional elements of the cell, comparing prokaryotic, animal and plant cells. After having discussed cell evolution, we will set out on a journey through the cell, exploring the extracellular matrix/cell wall, cytoskeleton, organelles and nucleus. To help you understand how a cell functions, we will discuss the functions of these components. During exercises, practical examples will provide you with an opportunity to explore the material in more detail: we will work with microscopic preparations, complete exercises and use multimedia aids. You will learn and practise preparation and light microscopy techniques that you will apply in the exercise of the module <i>Das Pflanzen- und Tierreich (The Plant and Animal Kingdoms</i>). In addition, we will discuss aspects related to everyday procedures in biological laboratories.						
Intend	ed learning outcomes					
Studer	its will be able to recog	nise, deso asic expe	cribe and evaluate in riments to analyse th	teractions between	plants and their environment.	
Course	s (type number of wee	kly conta	rt hours language -	if other than Germa	n)	
V(2) +		Kiy conta		n other than defina		
Metho ster, in written	d of assessment (type, formation on whether n examination (approx. o	scope, la nodule ca 60 minute	nguage — if other tha In be chosen to earn es)	an German, examina a bonus)	tion offered — if not every seme-	
	ion of places					
Additio	onal information					
Worklo	ad					
120 h						
Teachi	ng cycle					
Referre	ed to in LPO I (examina	tion regul	ations for teaching-c	legree programmes)		
§ 41 N the Un § 61 N	§ 41 Nr. 1 (3 ECTS credits) and § 41 Nr. 3 (1 ECTS credits) (The major part of exercises in the field of Biology at the University of Würzburg is of practical typ and correspond to to the lab courses given in LPO I.) § 61 Nr. 1 (3 ECTS credits) and § 61 Nr. 3 (1 ECTS credits)					
Modul	e appears in					
First st First st First st First st First st	First state examination for the teaching degree Grundschule Biology (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 Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))					

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Module title			Abbreviation			
Excursion on Zoology or Botany I			07-LA-EXKURS1-152	:-m01		
Module	e coord	inator		Module offered by	<u> </u>	
degree	progra	mme coordinator Biolo	gie (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
2	(not) s	successfully completed		• • • •		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
During nities c	this mu of plant	ulti-day botanical or zo s and animals in Germ	ological teaching hike, any and abroad.	students will explore	e selected habitats a	and commu-
Intend	ed lear	ning outcomes				
Studer tors tha	nts are f at influe	amiliar with terrestrial ence the composition of	plant and animal comm of these communities.	nunities, their habita	it requirements as w	ell as the fac-
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
Ü (2)						
Metho	d of ass formati	sessment (type, scope,	language — if other the	an German, examina	tion offered — if not	every seme-
a) writt		mination (approx_45 to	o o minutes) or			
b) oral	examir	ation of one candidate	e each (30 to 60 minute	s) or		
c) term	paper	(approx. 10 to 30 page	s) or			
d) port	folio			h		
Studen	Its Will I	be informed about the	method and length of t	he assessment prior	to the course.	
Allocat	tion of r					
Additic	nal inf	ormation				
Worklo	ad					
60 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	nrs in				
First st	ate exa	mination for the teachi	ng degree Grundschule	e Biology (2015)		
First st	ate exa	mination for the teachi	ng degree Grundschule	e Didactics in Biology	/ (Primary School) (2	.015)
First st	ate exa	mination for the teachi	ng degree Realschule E	Biology (2015)		
First st	ate exa	mination for the teachi	ng degree Gymnasium	Biology (2015)		
First st	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 st	First state examination for the teaching degree Sondernädagogik Didactics in Biology (Middle School) (2020					
(Prüfungsordnungsversion 2015))						
First st	ate exa	mination for the teachi	ng degree Mittelschule	Didactics in Biology	(Middle School) (20	020 (Prü-
fungso	rdnung	sversion 2015))				
LA Grundso	chulen Bio	logy (2015)	JMU Würzburg ● g cord Lehramt Grur	enerated 18-Apr-2025 • exam Idschulen (Unterrichtsfach) B	. reg. data re- iiologie - 2015	page 23 / 45

Module title			Abbreviation			
Excursion on Zoology or Botany II				07-LA-EXKURS2-152	2-m01	
Module	e coord	inator		Module offered by	<u> </u>	
degree	progra	mme coordinator Biolo	gie (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
4	(not) s	successfully completed	1			
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
During nities o	this mu of plant	ulti-day botanical or zo s and animals in Germ	ological teaching hike, any and abroad.	students will explore	e selected habitats a	and commu-
Intend	ed lear	ning outcomes				
Studer tors tha	its are f at influe	amiliar with terrestrial ence the composition of	plant and animal comr of these communities.	nunities, their habita	it requirements as w	ell as the fac-
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
Ü (4)						
Metho	d of ass	sessment (type, scope,	language — if other th	an German, examina	tion offered — if not	every seme-
ster, in	formati	on on whether module	can be chosen to earn	a bonus)		
a) writt	en exa	mination (approx. 45 to	90 minutes) or	,		
b) oral	examir	lation of one candidate	e each (30 to 60 minute s) or	es) or		
d) port	folio	(applox. 10 to 30 page	5) 01			
Studer	its will	be informed about the	method and length of t	he assessment prior	to the course.	
credita	ble for	bonus				
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
120 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	urs in				
First st	ate exa	mination for the teachi	ng degree Grundschule	e Biology (2015)		
First st	ate exa	mination for the teachi	ng degree Grundschule	e Didactics in Biology	/ (Primary School) (2	:015)
First st	ate exa	mination for the teachi	ng degree Realschule I	Biology (2015)		
First st	ate exa	mination for the teach	ng degree Gymnasium	Biology (2015)	alamı (Middla Caba	
FIRST ST	First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015)					
First st	First state examination for the teaching degree Mittelschule Biology (2015)					
First st	First state examination for the teaching degree Mittelschule Biology (2020) (Prüfungsordnungsversion 2015)					
First st	First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020					
(Prüfungsordnungsversion 2015))						
First st	ate exa	mination for the teachi	ng degree Mittelschule	Didactics in Biology	(Middle School) (20	020 (Prü-
tungso	rdnung	sversion 2015))				
LA Grundso	chulen Bio	logy (2015)	JMU Würzburg • g cord Lehramt Grui	enerated 18-Apr-2025 • exam ndschulen (Unterrichtsfach) B	i. reg. data re- iiologie - 2015	page 24 / 45

The Fauna of Germany 0?-LA FAUNA-152-m01 Module coordinator Module offered by holder of the Chair of Animal Ecology and Tropical Biology Faculty of Biology ECTS Method of grading Only after succ. compil. of module(s) 5 numerical grade	Module title				Abbreviation	
Module coordinator Module offered by holder of the Chair of Animal Ecology and Tropical Biology Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester undergraduate Admission prerequisite to assessment: regular attendance of field trips (minimum 80%). Contents In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animals and will present specific habitats or lifestyles. Exercises in a variety of habitats will provide students with an opportunity to consolidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology. Intended learning outcomes Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates) and use identification keys. They are familiar with selected central Europe. Duration Course (type, number of weekly contact hours, language — if other than German) V (s) + 0 (z) + E (z.s) Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information Curses (type, number of weekly contact hours, language — if oth	The Fa	una of (Germany			07-LA-FAUNA-152-m01
holder offection Faculty of Biology ECTS Method of grading Only after succ. comp. of module(s) 5 numerical grade - Duration Module level Other prerequisites 1 semestrial undergraduate Admission prerequisite to assessment: regular attendance of field trips (minimum 80%). Contents In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxon-specific and will practise identifying species, using specimens of animals. Selection of specimens will be taxon-specific and will represent specific habitats or lifestyles. Exercises in a variety of habitats will provide students with an opportunity to consolidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology. Intended learning outcomes Students prosess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and use identification keys, They are familiar with selected central European habitats as well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as indicators and are of conservation concern. Courses (type, number of weekly contact hours, language — if other than German) V (1) + U (2) + E (Module	e coord	inator		Module offered by	
ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade 1 semester Undergraduate Admission prerequisites 1 semester undergraduate Admission prerequisite to assessment: regular attendance of field trips (minimum 80%). Contents In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animats and will practise identifying species, using specimens of animals. Selection of specimens will be taxon-specific and will represent specific habitats or lifestyles. Exercises in a variety of habitats will provide students with an opportunity to consolidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology. Intended learning outcomes Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and behaviours (keys. They are familiar with selected Central European habitats are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they functions and are of conservation concern. Courses (type, number of weekly contact hours, language — if other than German) V (1 + Ū (2) + E (2,5) 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	holder	of the (Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology	
jumerical grade Duration Module level Other prerequisites J semester undergraduate Admission prerequisite to assessment: regular attendance of field trips (minimum 80%). Contents	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
Duration Module level Other prerequisites 1 semester undergraduate Admission prerequisites to assessment: regular attendance of field trips (minimum 80%). Contents In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animals and will practise identifying species, using specimens of animals. Selection of specimens will be taxon-specific and will represent specific habitats or iffestyles. Exercises in a variety of habitats will provide students with an opportunity to con- solidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology. Intende learning outcomes Students posses species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and use identification keys. They are familiar with selected Central European habitats as well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as indicators and are of conservation concern. Courses (type, number of weekly contact hours, language — if other than German) V V(1) + Ü (2) + E (2,5) Method of assessment (upper, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) writediable for bonus Aldication alinformation	5	nume	rical grade			
1 semester undergraduate Admission prerequisite to assessment: regular attendance of field trips (minimum 80%). Contents In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animals and will practise identifying species, using specimens of animals. Selection of specimens will be taxon-specific and will represent specific habitats or lifestyles. Exercises in a variety of habitats will provide students with an opportunity to consolidate the knowledge and skills they acquired in the lab by identifying juing specimens including their ecology and behavioural biology. Intendel learning outcomes Intendel learning outcomes Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and use identification keys. They are familiar with selected Contract European habitats as a well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as indicators and are of conservation concern. Courses (type, number of weekly contact hours, 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. 45 minutes) and practical identification assignment (approx. 45 minutes) creditable for bonus Allocation of places	Duratio	on	Module level	Other prerequisites		
Contents In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animals and will practise identifying species, using specimens of animals. Selection of specimens will be taxon-specific and will represent specific habitats or lifestyles. Exercises in a variety of habitats will provide students with an opportunity to consolidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology. Intended learning outcomes Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and use identification keys. They are familiar with selected Central European habitats as well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as anidicators and are of conservation concern. Courses (type, number of weekly contact hours, 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. 45 minutes) and practical identification assignment (approx. 45 minutes) creditable for bonus Alditional information - - Additional information - - Additional information -	1 seme	ster	undergraduate	Admission prerequis (minimum 80%).	site to assessment: I	regular attendance of field trips
In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animals and will practise identifying species, using specimens of animals. Selection of specific nabitats with an opportunity to con- solidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology. Intended learning outcomes Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and use identification keys. They are familiar with selected Central European habitats as well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as indicators and are of conservation concern. Courses (type, number of weekly contact hours, language — if other than German) V (1) + (1) (2) + E (2, 5) 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 examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes) creditable for bonus Allocation of places 	Conten	ts				
Intended learning outcomes Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates), invertebrates) and use identification keys. They are familiar with selected Central European habitats as well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as indicators and are of conservation concern. Courses (type, number of weekly contact hours, language — if other than German) V (i) + Û (2) + E (2.5) 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. 45 minutes) and practical identification assignment (approx. 45 minutes) creditable for bonus Alditional information Additional information Workload 150 h Teaching cycle & 61 I NPO I (examination regulations for teaching-degree programmes) § 61 I Nr. 1 (3 ECTS credits) and § 61 I Nr. 4 (2 ECTS credits), 41 I Nr. 1 (3 ECTS credits) and § 41 I Nr. 4 (2 ECTS credits), 41 I Nr. 1 (3 ECTS credits) and § 41 I Nr. 4 (2 ECTS credits), 41 I Nr. 1 (3 ECTS credits) and § 41 I Nr. 4 (2 ECTS credits), 41 I Nr. 1 (3 ECTS credits) and § 41 I Nr. 4 (2 ECTS credits), 41 I Nr. 1 (3 ECTS credits), 41 I Nr. 4 (2 ECTS credits), 41 I Nr. 4 (2 ECTS credits), 41 I	In this They w identify specifi solidat and be	In this module, students will acquire an overview of selected groups of animals to be found in Central Europe. They will acquire a fundamental knowledge of the systematics and taxonomy of these animals and will practise identifying species, using specimens of animals. Selection of specimens will be taxon-specific and will represent specific habitats or lifestyles. Exercises in a variety of habitats will provide students with an opportunity to con- solidate the knowledge and skills they acquired in the lab by identifying living specimens including their ecology and behavioural biology.				
Students possess species identification skills. They know how to taxonomically classify selected representatives of the indigenous fauna (vertebrates, invertebrates) and use identification keys. They are familiar with selected Central European habitats as well as their faunas and phenology. On the basis of the morphology and habitats of species, students are able to predict the biology and ecology of these species as well as, where applicable, to predict whether they function as indicators and are of conservation concern. Courses (type, number of weekly contact hours, language — if other than German) V (1) + Ü (2) + E (2.5) 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. 45 minutes) and practical identification assignment (approx. 45 minutes) creditable for bonus Allocation of places Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) § 61 I Nr. 1 (3 ECTS credits) and § 61 I Nr. 4 (2 ECTS credits), 41 I Nr. 1 (3 ECTS credits) and § 41 I Nr. 4 (2 ECTS credits) First state examination for the teaching degree Grundschule 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 (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 (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 Biolog	Intend	ed lear	ning outcomes			
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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title			Abbreviation			
Extracurricular Places of Learning in Biology 07-LA-FB-ASL-152-m01			101			
Module	coordi	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	uccessfully completed				
Duratio	n	Module level	Other prerequisites			
Content The sen well as biology vironme environ ged into tic meth pils of c search a will bec Intende • Fa fa • A • A • A • A	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.					Jucation as ments for hods for en- m learning be arran- ge of didac- roups of pu- schung (Re- didactics and d skills.
Courses	s (type,	number of weekly cor	tact hours, language –	- if other than Germa	ın)	
S (2) + 9	S (2)					
Method ster, inf	l of ass formati	essment (type, scope, on on whether module	language — if other the can be chosen to earn	an German, examina a bonus)	tion offered — if not	every seme-
a) writte b) oral e c) term d) portf Student credital	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.					
Allocati	ion of p	laces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPOI (examination re	gulations for teaching-	degree programmes)		
LA Grundscl	hulen Biol	ogy (2015)	JMU Würzburg • g cord Lehramt Grur	enerated 18-Apr-2025 • exam ndschulen (Unterrichtsfach) B	1. reg. data re- Biologie - 2015	page 26 / 45

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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))

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

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title				Abbreviation	
Habitats of Ge	ermany			07-LA-FB-EL-152-mc)1
Module 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				
Duration	Module level	Other prerequisites			
2 semester	undergraduate				
Contents					
The exercise <i>E</i> will provide st vironments" in dents will ada liver the respe tre, and will su a concrete top pupils' affecti	inheimische Lebensräu udents with an opportu n more detail. The cours pt existing teaching un ective units to groups of ubsequently evaluate th ic related to the respec- ve, methodological and	me im Biologieunterri nity to explore the top will focus on the me ts on water, forest, gra pupils, preferably dur se sessions. Students tive habitat, a lesson t cognitive skills.	cht (Indigenous Habi ic "teaching biology thodological aspect assland, farmland an ing a project day at a will develop an activi that is tailored to the	<i>itats in the Biology C</i> in out-of-classroom of environmental ed d/or hedgerow habi in environmental ed ity and problem-bas ir target group and d	lassroom) learning en- ucation. Stu- tats, will de- ucation cen- ed lesson on levelops their
Intended lear	ning outcomes				
 Ability t that are Ability to Ability to sideration 	o develop activity-base tailored to the target gr o independently organic o critically reflect on the on.	ed and multisensory le oup as well as ability t se and run project day e respective lessons, ta	essons in out-of-clas to adapt and evaluat s. aking aspects of envi	sroom learning env e lessons. ronmental educatior	ironments n into con-
Courses (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
Ü (3)					
Method of ass ster, informati	essment (type, scope, on on whether module	language — if other th can be chosen to earn	an German, examina a bonus)	tion offered — if not	every seme-
a) written exan b) oral examir c) term paper d) portfolio Students will creditable for	mination (approx. 45 to lation of one candidate (approx. 10 to 30 pages be informed about the r bonus	90 minutes) or each (30 to 60 minute) or nethod and length of t	es) or he assessment prior	to the course.	
Allocation of p	olaces				
Additional inf	ormation				
Workload					
150 h					
Teaching cycl	e				
Referred to in	LPOI (examination reg	ulations for teaching-	degree programmes)		
§ 36 Nr. 7					
Module appea	urs in				
First state exa First state exa First state exa First state exa	mination for the teachin mination for the teachin mination for the teachin mination for the teachin	ng degree Grundschule ng degree Grundschule ng degree Realschule E ng degree Gymnasium	e Biology (2015) e Didactics in Biology Biology (2015) Biology (2015)	r (Primary School) (2	015)
LA Grundschulen Bio	logy (2015)	JMU Würzburg ● g cord Lehramt Grur	enerated 18-Apr-2025 • exam ndschulen (Unterrichtsfach) B	. reg. data re- iologie - 2015	page 28 / 45

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))

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 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	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			
1 seme	ster	undergraduate				
Conten	ts					
In the s ge of h these h se, sex festyle as well <i>unterri</i> in class sibilitie will dis <i>richtsm</i> de you ented l orienta ciple o Intende • <i>A</i> t t	seminar ealth is ealth is ealth is educat that are as mea cht (Mo s and w es of tea s of tea	r Gesundheitserziehung sues faced by many ch ssues as well as relate tion, unhealthy eating e tailored to the require asures related to speci- tivation and Discipline ill develop methodolog achers as well as ways ays to deal with disrup am Beispiel HOBOS (S n introduction to the HO g and educational stan ay have on teaching. In dualisation. You will ac hing outcomes o explain both selecter to translate topics in the ective type of school, i o name the duties and wing acts and regulati ducation Act, BayEUG) r Teachers at State Sch	g (Health Education), w hildren and adolescents d theories. We will focu- habits and lack of exer- ements of the respective fic topics. In the semina- in the Biology Classroo gical skills for the biolo to effectively fulfil these tive pupils and prevent kill-Oriented Instruction DBOS learning platform dards. Discussing conce addition, you will learn quire broad range of m d explanatory approact at approaches to the pre- e area of health educat n a didactically reduce responsibilities of tea ons: Bayerisches Gese , Dienstordnung für Le pools in Bayaria. LDO) a	e will explore the cases in Germany today; will so on the following to cise. We will develop the type of school and ar <i>Motivierte und dis fom</i>), you will learn ho gy classroom. We will analyse type of school and will analyse type disruption. The sempla <i>Models: the HOB</i> and will acquaint your rete examples, we will analy the toplan and implement ethods that will allowed manner, into less of chers as well as funt traiter an staatlich as well as Schulordn	uses and reasons of we will discuss differ opics: drugs and sub o lessons to promote l will discuss general <i>ziplinierte Schüler in</i> ow to handle difficul ill discuss the duties vpical causes of disru- ninar <i>Kompetenzorie</i> . <i>OS Learning Platform</i> ou with the concepts vill find out what effe- nent lessons, observ w you to do so. g health-impairing b haviours. vention from the curr ons. damental principles gs- und Unterrichtsw en Schulen in Bayer ung für die Gymnas	a broad ran- rent types of stance abu- a healthy li- l measures <i>n Biologie-</i> t situations and respon- uption and <i>ntierte Unter-</i> <i>n</i>) will provi- of skill-ori- ects output ing the prin- pehaviours ficulum for set out in vesen (Ba- n (Regula- ien/Volks-
s r	ia GSO	/Realschulen in Bayer	n (Regulations Governi	ng Gymnasien/Volks	schulen/Realschule	n in Bava-
• A	bility to	p recognise causes of o	disruption			
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	ın)	
S (2) +	S (2)					
Metho ster, in	d of ass formati	essment (type, scope, on on whether module	language — if other th can be chosen to earn	an German, examina a bonus)	ition 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						
L						
LA Grundso	chulen Bio	logy (2015)	JMU Würzburg • g cord Lehramt Grui	enerated 18-Apr-2025 • exam 1dschulen (Unterrichtsfach) E	n. reg. data re- Biologie - 2015	page 30 / 45

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))

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

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 31 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module	e title				Abbreviation
Advanced Didactics in Biology 07-LA-FB-VFD-152-mo1					
Module	e coord	inator		Module offered by	
head o	f group	Didactics of Biology		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
This m	odule w	vill provide students with	in-depth insights into	o the theory and pra	ctice of biology didactics.
Intend	ed learr	ning outcomes			
Studen dactics	ts will I	be able to apply the fund	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)					
Metho	d of ass formati	essment (type, scope, la	nguage — if other tha	an German, examina a bonus)	tion offered — if not every seme-
a) writt	en exar	mination (approx. 45 to 9	o minutes) or		
b) oral	examin	ation of one candidate e	ach (30 to 60 minute or	s) or	
d) nort	paper folio	(approx. 10 to 30 pages)	01		
Studen	ts will l	be informed about the me	ethod and length of t	he assessment prior	to the course.
credita	ble for	bonus		-	
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
120 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	nrs in			
First st	ate exa	mination for the teaching	degree Grundschule	Biology (2015)	
First st	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 St	ate exa	mination for the teaching	aegree Mittelschule	Biology (2015)	(Middle School) (2015)
First st	ate exa	mination for the teaching	degree Mittelschule	Biology (2020 (Prüfi	(minute School) (2015)
First st	ate exa	mination for the teaching	degree Sondernäda	gogik Didactics in Ri	ology (Middle School) (2020
(Prüfur	igsordn	ungsversion 2015))			0, ()
First st	ate exa	mination for the teaching	degree Mittelschule	Didactics in Biology	(Middle School) (2020 (Prü-
fungso	rdnung	sversion 2015))			

Module title				Abbreviation	
The Flora of Germany				07-LA-FLORA-152-m	01
Module coordinator			Module offered by		
holder of the Chair of I	Plant Physiology	and Biophysics	Faculty of Biology		
ECTS Method of gra	ding	Only after succ. com	pl. of module(s)		
5 numerical grad	de				
Duration Module	level	Other prerequisites			
1 semester underg	raduate	Admission prerequi	site to assessment: r	egular attendance o	f field trips
		(minimum 80%).			
Contents					
The module will discuss will acquire an overvie gical and economic im will demonstrate how using dichotomous ke racteristics and will be to typical habitats in th common as well as sci cies-specific character site. Habitat ecological cussed. The module w door facilities and gree Intended learning outo Students have acquire flowering plants. They up scientific herbaria. Courses (type, numbe E (2.5) + V (1) + Ü (2) Method of assessmen ster, information on w	ss the fundame w of the major f portance. Using dichotomous ke ys. Identifying p come familiar v he Botanical Ga ientific names of ristics of these p il, geobotanical rill also include enhouses to hel comes ed knowledge an are familiar wit r of weekly cont t (type, scope, I hether module	ntal principles of the s flowering plants to be g the field guide <i>Flora</i> is eys are used, and stud plants, students will le with the respective terr rden and the vicinity of f the plants found and plants. Students will plants climatic as well as co sessions at the Botani p students acquire sp ad skills related to the h the terminology of p act hours, language — anguage — if other that can be chosen to earn tes) and practical iden	ystematics and ecolo found in the tempera- <i>yon Deutschland</i> by 9 ents will practise ide arn how to identify n ninology. The modul of Würzburg. Student I will be introduced t ractise using field gunservation-relevant cal Garden of the Un ecies identification se ecology, systematic lant morphology and if other than German a German, examina a bonus)	ogy of flowering plan ate zone as well as the Schmeil-Fitschen, the entifying freshly-gath najor morphological e will also include fi s will become famili o the family- as well ides and identification characteristics will a iversity of Würzburg skills.	nts. Students heir ecolo- e course hered plants plant cha- eld trips ar with the as spe- ion keys on ilso be dis- ; with its out- ndigenous oras and set every seme-
Assessment offered: C creditable for bonus)nce a year, sun	imer semester			
Allocation of places					
Additional information	n				
Workload					
150 h					
Teaching cycle					
reaching cycle					
Peferred to in LDO L (examination regulations for teaching degree programmer)					
Referred to III LPO I (examination regulations for teaching-degree programmes)					
§ 41 Nr. 1 (3 ECTS crea § 61 Nr. 1 (3 ECTS crea	dits) and § 41 dits) and § 61	Nr. 4 (2 ECTS credits) Nr. 4 (2 ECTS credits)			
Module appears in					
First state examination	First state examination for the teaching degree Grundschule Biology (2015)				
First state examination	First state examination for the teaching degree Realschule Biology (2015)				
i First state examination	n for the teachin	g degree Realschule E	Biology (2015)		
	n for the teachin n for the teachin	g degree Realschule E g degree Gymnasium	Biology (2015) Biology (2015)	vog data ra	



First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module	title				Abbreviation
Basic H	Basic Human Biology II 07-LA-HUBIO-2-152-mo1				
Module	coord	inator		Module offered by	
holder	of the O	Chair of Zoology I		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed	07-LA-HUBIO-1 or 07	-GMR-HUBIO-1	
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts	-			
Experin rations perform	nents to under 1 exper	o consolidate the studen the microscope, make dr iments on human physio	ts' knowledge of the t awings, develop gene logy.	topics covered in the etic diagrams showir	e lecture: We will examine prepa- ng the inheritance of diseases,
Intende	ed learr	ning outcomes			
Studen and wil	ts will l l have (pe proficient in the theory developed skills required	/ and practice of rese I for a career in resea	arch in the field of in rch.	tegrative behavioural biology
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)
Ü (3)					
Method ster, inf Logs (a	l of ass formati pprox.	eessment (type, scope, la on on whether module ca 30 hours) and 10 to 15 dr	nguage — if other tha an be chosen to earn awings	an German, examina a bonus)	tion offered — if not every seme-
credital	ole for	bonus			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	е			
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
§ 41 N § 61 N	r. 5 r. 5				
Module	appea	rs in			
First sta	ate exa	mination for the teaching	degree Grundschule	Biology (2015)	
First sta	First state examination for the teaching degree Realschule Biology (2015)				
First sta	First state examination for the teaching degree Gymnasium Biology (2015)				
First sta	First state examination for the teaching degree Mittelschule Biology (2015)				
Master'	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)				
Master'	s teach	ning degree Gymnasium I	MINT Teacher Educati	on PLUS, Elite Netwo	ork Bavaria (ENB) (2020)
First sta	ate exa	mination for the teaching	degree Mittelschule	Biology (2020 (Prüfu	ungsordnungsversion 2015))
Master'	s teach	ning degree Gymnasium I	MINT Teacher Educati	on PLUS, Elite Netwo	ork Bavaria (ENB) (2025)

title				Abbreviation
nal Qua	alification MINT 2			07-LA-ZQN2-152-m01
coordi	nator		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	uccessfully completed			
n	Module level	Other prerequisites		
ster	undergraduate			
ts				
s in are ASQ) ar s. Thes sfer to	as other than the natural of that provide students se courses may be offered be made by examination	sciences that are no with an opportunity t d by the University of committee. Will inclu	t offered as part of th o strengthen their ge Würzburg or by exte ude one week of all-o	he pool of general transferable eneral background in the natural ernal institutions. Decision on cre- day courses.
ed learr	ning outcomes			
ts have ive acq	expanded their interdiso uired additional expertis	ciplinary knowledge a e and have develope	and have thus enhan d additional skills in	nced their general scientific skills. a areas other than biology.
s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)
l of ass formati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
examir ble for l	nation (approx. 60 minuto bonus	es)		
ion of p	laces			
nal info	ormation			
ad				
ng cycle	9			
<u> </u>				
d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
appea	rs in			
appea ate exa	rs in mination for the teaching	, degree Grundschule	Biology (2015)	
ate exai	mination for the teaching	degree Grundschule	Didactics in Biology	ı (Primary School) (2015)
te exai	mination for the teaching	degree Realschule E	Biology (2015)	
ite exai	mination for the teaching	degree Gymnasium	Biology (2015)	
ite exai	mination for the teaching	g degree Sonderpäda	gogik Didactics in Bi	ology (Middle School) (2015)
ite exal	mination for the teaching	degree Mittelschule	Biology (2015)	(Middle Cebeel) (2215)
ite exal	mination for the teaching	dogroo Mittolechulo	Biology (2020 (Brife	(minute School) (2015)
ite exdi	mination for the teaching	degree Sondornäda	angik Didactics in Pi	ology (Middle School) (2020
gsordn	ungsversion 2015))	, degree Sonderpaud	SUSIN DIVACULS III DI	0.05y (midule 301000) (2020
ate exai dnung	mination for the teaching sversion 2015))	g degree Mittelschule	Didactics in Biology	(Middle School) (2020 (Prü-
	title nal Qua coordi progra Metho (not) s f s in are SQ) ar s far to d learr s have ve acq d cornati examir of ass formati examir of ass formati examir of ass formati examir on of p nal info ad d to in appea te examir te exami	title nal Qualification MINT 2 coordinator programme coordinator Biologi Method of grading (not) successfully completed n Module level ster undergraduate ss in areas other than the natural SQ) and that provide students s. These courses may be offeree for to be made by examination d learning outcomes shave expanded their interdise ve acquired additional expertis s(type, number of weekly conta for assessment (type, scope, la formation on whether module ca examination (approx. 60 minute ole for bonus on of places nal information ad ad ad age cycle at the examination for the teaching te examination f	title nal Qualification MINT 2 coordinator programme coordinator Biologie (Biology) Method of grading Only after succ. com (not) successfully completed on Module level Other prerequisites ter undergraduate on Module level Other prerequisites in areas other than the natural sciences that are no SQ) and that provide students with an opportunity t s. These courses may be offered by the University of sfer to be made by examination committee. Will inclu d learning outcomes shave expanded their interdisciplinary knowledge a ve acquired additional expertise and have develope (type, number of weekly contact hours, language — f of assessment (type, scope, language — if other tha ormation on whether module can be chosen to earn examination (approx. 60 minutes) be for bonus on of places ad	title nal Qualification MINT 2 coordinator Module offered by programme coordinator Biologie (Biology) Faculty of Biology Method of grading Only after succ. compl. of module(s) (not) successfully completed in Module level Other prerequisites in areas other than the natural sciences that are not offered as part of the SCQ) and that provide students with an opportunity to strengthen their ges. is in areas other than the natural sciences that are not offered as part of the SQD and that provide students with an opportunity to strengthen their ges. is na reas other than the natural sciences that are not offered as part of the SQD and that provide students with an opportunity to strengthen their ges. is na reas other than the natural sciences that are not offered as part of the SQD and that provide students with an opportunity to strengthen their ges. is the examination committee. Will include one week of all-their ges. is the examination expertise and have developed additional skills in the acquired additional expertise and have developed additional skills in the acquired additional expertise and have developed additional skills in the acquired additional expertise and have developed additional skills in the acquired additional expertise and have developed additional skills in the tacking degree fundschule biology (2015) for faces

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Additional Qualification MINT 3 07-LA-ZQN3:152-m01 Module coordinator Biologie (Biology) Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 3 (nof) successfully completed Duration Module level Other prerequisites Contents Contents Contents Sciences. These courses may be offered by the University of Wirzburg or by external institutions. Decision on cdit transfer to be made by examination committee. Will include courses with 1 weekly contact hour. Intended learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific skills fix 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 (3) S (3) Method of assessment (type, scope, language — if other than German, examination offered — if not every sem ster, information on whether module can be chosen to earn a borus) Method of subouts	Module	e title				Abbreviation
Module coordinator Module offered by degree programme coordinator Biologie (Biology) Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 3 (not) successfully completed Duration Module level Other prerequisites 1 semester undergraduate Contents Contents Contents Contents ciences. These courses may be offered by the University of Würzburg or by external institutions. Decision on contiltere. Will include courses with 1 weekly contact hour. Interded learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific Skills in areas other than biology. Courses (type, number of weekly contact hours, language — if other than German, examination offered — if not every sem ster, information on whether module can be chosen to earn a bonus) Written examination (approx. 6o minutes)	Additio	nal Qu	alification MINT 3			07-LA-ZQN3-152-m01
degree programme coordinator Biologie (Biology) Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 3 (not) successfully completed Duration Module level Other prerequisites 1 semester undergraduate Conters Conters Conters Conters Conters Conters Conters Contrast on the natural sciences that are not offered as part of the pool of general transfrable skills (ASQ) and that provide students with an opportunity to strengthen their general background in the natura sciences. These courses may be offered by the University of Wirzburg or by external institutions. Decision on c dit transfer to be made by examination committee. Will linclude courses with 1 weekly contact hour. Intereded Background in the natura sciences. These courses may be offered by the only the diverburg of didtional skills in areas other than biology. Courses	Module	e coord	inator		Module offered by	
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3 (not) successfully completed Duration Module level Other prerequisites 1 semestr undergraduate Contents 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 natura sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision on c dit transfer to be made by examination committee. Will include courses with 1 weekly contact hour. Intend=/ Image: Strengthen their general scientific skill 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 (3) S S Method of assessment (type, scope, language — if other than German, examination offered – if not every sem ster, information on whether module can be chosen to earn a bonus) written examination (approx. 6 o minutes) Vertide	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
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 transferable skills (ASQ) and that provide students with an opportunity to strengthen their general background in the nature sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision on c dit transfer to be made by examination committee. Will include courses with 1 weekly contact hour. Intended learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific skil 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 S (3)	3	(not) s	successfully completed			
i semester undergraduate Contents Courses in areas other than the natural sciences that are not offered as part of the pool of general transferable kills (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 c dit transfer to be made by examination committee. Will include courses with 1 weekly contact hour. Intende learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific skil 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 (3) Method of assessment (type, scope, language — if other than German, examination offered — if not every sem ster, information on whether module can be chosen to earn a bonus) written examination (approx. 6o minutes) creditable for bonus Allocation of places Allocation of places Allocation of places Additional information a contrastication on the teach ing degree forundschube degree programmes) a contrastication of the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (2015) First state examination for the teaching degree Grundschube Biology (201	Duratio	n	Module level	Other prerequisites		
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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 natur sciences. These courses may be offered by the University of Würzburg or by external institutions. Decision on dit transfer to be made by examination committee. Will include courses with 1 weekly contact hour. Intended learning outcomes Students have expanded their interdisciplinary knowledge and have thus enhanced their general scientific ski 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 (3) Method of assessment (type, scope, language — if other than German, examination offered — if not every sem ster, information on whether module can be chosen to earn a bonus) written examination (approx. 60 minutes) creditable for bonus Allocation of places 	Conten	ts				
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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title				Abbreviation	
Additio	nal Qu	alification MINT 4			07-LA-ZQN4-152-m01
Module coordinator				Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Course skills (/ science dit tran	s in are ASQ) ar es. Thes sfer to	eas other than the natural nd that provide students se courses may be offered be made by examination	l sciences that are no with an opportunity t d by the University of committee. Will inclu	t offered as part of th o strengthen their ge Würzburg or by exte ude one week of all-o	he pool of general transferable eneral background in the natural rnal institutions. Decision on cre- day courses.
Intende	ed learı	ning outcomes			
Studen They ha	ts have ave acq	e expanded their interdisc juired additional expertis	ciplinary knowledge a e and have develope	and have thus enhan d additional skills in	nced their general scientific skills. a areas other than biology.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
S (4)					
Method ster, in	l of ass formati	sessment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
written credita	examiı ble for	nation (approx. 60 minuto bonus	es)		
Allocat	ion of p	olaces			
	•				
Additio	nal inf	ormation			
Worklo	ad				
120 h					
Teachi	ng cycl	e			
	.5 .9				
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	urs in			
First sta	ate exa	mination for the teaching	g degree Grundschule	Biology (2015)	
First sta	ate exa	mination for the teaching	g degree Grundschule	Didactics in Biology	/ (Primary School) (2015)
First sta	ate exa	mination for the teaching	g degree Realschule E	Siology (2015)	
First sta	ate exa	mination for the teaching	g degree Gymnasium	Biology (2015)	
First sta	ate exa	mination for the teaching	g degree Sonderpäda	gogik Didactics in Bi	ology (Middle School) (2015)
First sta	ate exa	mination for the teaching	g degree Mittelschule	Biology (2015)	
First sta	ate exa	mination for the teaching	degree Mittelschule	Didactics in Biology	(Middle School) (2015)
First sta	ate exa	mination for the teaching	degree Mittelschule	Biology (2020 (Prüfi	ungsordnungsversion 2015))
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LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 38 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title Abbreviation				Abbreviation	
Additio	Additional Qualification MINT 5 07-LA-ZQN5-152-mo1				
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. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Course skills (/ science dit tran	s in are ASQ) ar es. Thes sfer to	as other than the natural nd that provide students se courses may be offered be made by examination	l sciences that are no with an opportunity t d by the University of committee. Will inclu	t offered as part of th o strengthen their ge Würzburg or by exte ude one week of all-o	he pool of general transferable eneral background in the natural ernal institutions. Decision on cre- day courses.
Intende	ed lear	ning outcomes	,		
Studen They ha	ts have ave acq	e expanded their interdiso uired additional expertis	ciplinary knowledge a e and have develope	and have thus enhan d additional skills in	nced their general scientific skills. a areas other than biology.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
S (4)					
Metho ster, in	d of ass formati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
written credita	examiı ble for	nation (approx. 60 minuto bonus	es)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cvcl	6			
	<u> </u>	-			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	urs in			
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rungso	runung	sversion 2015))			

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	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title				Abbreviation	
Additio	nal Qu	alification MINT 6			07-LA-ZQN6-152-m01
Module coordinator				Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Course dents v offered nation	s in the vith adv by the commi	e natural sciences not offe vanced knowledge in the University of Würzburg o ttee.	ered as part of the po natural sciences that r by external instituti	ol of general transfe t is related to their d ons. Decision on cre	rable skills (ASQ) that equip stu- iscipline. These courses may be dit transfer to be made by exami-
Intende	ed leari	ning outcomes			
Studen ons. Th	ts have ey hav	e developed an improved e acquired additional exp	scientific knowledge pertise that will help t	and have thus enha hem specialise in th	nced their specific qualificati- eir field.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
S (4)					
Methoo ster, in	l of ass formati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
written credita	examiı ble for	nation (approx. 60 minuto bonus	es)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	ars in			
First sta First sta First sta First sta First sta First sta First sta First sta (Prüfun First sta	ate exa ate exa	mination for the teaching mination for the teaching	g degree Grundschule g degree Grundschule g degree Gymnasium g degree Sonderpädag g degree Mittelschule g degree Mittelschule g degree Sonderpädag g degree Sonderpädag	Didactics in Biology Biology (2015) Biology (2015) gogik Didactics in Bi Biology (2015) Didactics in Biology Biology (2020 (Prüfu gogik Didactics in Bi	v (Primary School) (2015) ology (Middle School) (2015) (Middle School) (2015) ungsordnungsversion 2015)) ology (Middle School) (2020 (Middle School) (2020 (Prü-

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 40 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	1

Module	e title				Abbreviation
Supervising Tutorial for Basic Courses 3			07-SQF-TFB3-152-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. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Workin <i>gy</i>) I thi te their will hel cess.	g as tu rough I knowl p them	tors, students will mento II in particular. Tutors will edge and prepare for asso fill gaps in their knowled	r other students durir l help students impro essments. They will c lge. Tutors will suppo	ng the modules <i>Allge</i> we upon their unders orrect exercises, will ort other students on	emeine Biologie (General Biolo- standing of material, consolida- l discuss these with students and their way towards academic suc-
Intende	ed lear	ning outcomes			
The tute ence su the tute	ors are upervis ors hav	able to communicate cor ing a group. Having prepa e also enhanced their ow	mplex concepts in a c ared for answering sp n subject-specific sk	lear and structured vecific questions and ills. They have enhar	way. They have gained experi- l explaining material in detail, nced their teaching skills.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
T (o)					
Method ster, ini Proof o	d of ass formati f tutori	sessment (type, scope, la on on whether module ca ng activities and report (a	nguage — if other tha an be chosen to earn approx. 2 to 3 pages)	an German, examina a bonus)	tion offered — if not every seme-
Allocat	ion of r				
Allocal		Jaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
Module	e appea	urs in			
Bachel	or's de	gree (1 major) Biology (20	015)		
First sta	ate exa	mination for the teaching	g degree Grundschule	Biology (2015)	
First sta	ate exa	mination for the teaching	degree Realschule B	iology (2015)	
First sta	ate exa	mination for the teaching	degree Gymnasium	Biology (2015)	
First sta	ate exa	mination for the teaching	degree Mittelschule	Biology (2015)	
Bachel	or's de	gree (1 major) Biology (20)17) Agroo Mittalachula	Piology (2000 (Dett	
Rachol	ate exa	mination for the teaching			ungsorunungsversion 2015))
Bachel	or's de	gree (1 major) Biology (20)22)		
200100		<u></u>	/		

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 41 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module	e title				Abbreviation
Supervising Tutorial for Basic Courses 4			07-SQF-TFB4-152-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. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Workin gy) I thi te their will hel cess.	g as tu rough I knowl p them	tors, students will mento II in particular. Tutors will edge and prepare for asso i fill gaps in their knowled	r other students durir l help students impro essments. They will c lge. Tutors will suppo	ng the modules <i>Allge</i> ove upon their under orrect exercises, wil ort other students on	emeine Biologie (General Biolo- standing of material, consolida- l discuss these with students and their way towards academic suc-
Intende	ed lear	ning outcomes			
The tute ence su the tute	ors are upervis ors hav	able to communicate cor ing a group. Having prepa e also enhanced their ow	mplex concepts in a c ared for answering sp n subject-specific sk	lear and structured pecific questions and ills. They have enha	way. They have gained experi- l explaining material in detail, nced their teaching skills.
Course	s (type	, number of weekly conta	ct hours, language —	f other than Germa	n)
T (o)					
Method ster, in Proof o credita	d of ass formati f tutori ble for	sessment (type, scope, la ion on whether module ca ng activities and report (a bonus	nguage — if other tha an be chosen to earn approx. 2 to 3 pages)	an German, examina a bonus)	tion offered — if not every seme-
Allocat	ion of r	olaces			
	<u></u>				
Additio	nal inf	ormation			
Additio	inat init				
 Worklo					
WUIKIU	au				
120 n					
Teachi	ng cycl	e			
 Referre	d to in	LPO I (examination regu	lations for teaching-d	legree programmes)	
Module	e appea	ars in			
Bachel	or's de	gree (1 major) Biology (20	015)		
First sta	ate exa	mination for the teaching	degree Grundschule	Biology (2015)	
First sta	ate exa	mination for the teaching	g degree Realschule B	Biology (2015)	
First sta	ate exa	mination for the teaching	degree Gymnasium	Biology (2015)	
First sta	ate exa	mination for the teaching	degree Mittelschule	Biology (2015)	
Bachel	or's de	gree (1 major) Biology (20)17) Mittalaakuta	Diology (coop (D	
Rachol	ale exa	mination for the teaching			ungsorunungsversion 2015))
Bachel	or's de	gree (1 major) Biology (20)22)		
Sachet			,		

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 42 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module	e title				Abbreviation
Supervising Tutorial for Basic Courses 5			07-SQF-TFB5-152-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. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Workin <i>gy</i>) I thi te their will hel cess.	g as tui rough I knowle p them	tors, students will mento II in particular. Tutors will edge and prepare for ass fill gaps in their knowled	r other students durir l help students impro essments. They will c lge. Tutors will suppo	ng the modules <i>Allge</i> we upon their unders orrect exercises, will ort other students on	emeine Biologie (General Biolo- standing of material, consolida- l discuss these with students and their way towards academic suc-
Intende	ed learı	ning outcomes			
The tute ence su the tute	ors are upervis ors hav	able to communicate cor ing a group. Having prepa e also enhanced their ow	mplex concepts in a c ared for answering sp n subject-specific sk	lear and structured vecific questions and ills. They have enhar	way. They have gained experi- l explaining material in detail, nced their teaching skills.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
T (o)					
Method ster, in Proof o	d of ass formati f tutori ble for	sessment (type, scope, la on on whether module ca ng activities and report (a	nguage — if other tha an be chosen to earn approx. 2 to 3 pages)	an German, examina a bonus)	tion offered — if not every seme-
Allocat					
Allocal		Jaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
 Doforro		IDOL (avamination room	lations for too shing d		
Releffe		LFUT (examination regu		legree programmes)	
 M J., I.					
Module	e appea				
First sta First sta First sta First sta Bachelo First sta	ate exa ate exa ate exa ate exa ate exa or's deg ate exa	mination for the teaching mination for the teaching mination for the teaching mination for the teaching gree (1 major) Biology (20 mination for the teaching	degree Grundschule degree Realschule B degree Gymnasium degree Mittelschule (17) degree Mittelschule	Biology (2015) Siology (2015) Biology (2015) Biology (2015) Biology (2020 (Prüfu	ungsordnungsversion 2015))
Bachel Bachel	or's de or's de	gree (1 major) Biology (20 gree (1 major) Biology (20) (22) (22)		

LA Grundschulen Biology (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 43 / 45
	cord Lehramt Grundschulen (Unterrichtsfach) Biologie - 2015	

Module title					Abbreviation			
Supervising Tutorial for Biology 2			07-SQF-TSB2-152-m01					
Module coordinator Module offered by								
Coordir	ator Bi	ioCareers		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	graduate	-					
Conten	ts							
Regular or other science dule co econom	Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by mo- dule coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law							
Intende	Intended learning outcomes							
Specific	: skills	and knowledge on a spe	cific subject in an are	a other than biology	or the natural sciences.			
Courses	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)			
Т (о)								
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) Proof of tutoring activities and report (approx. 2 to 3 pages)								
Allocati	ion of r							
Allocal		Jaces						
 Additio	nalinf	rmation						
Auditio								
	- 4							
WORKIO	ad							
60 h								
Teachir	ig cycle	9						
Referred to in LPO I (examination regulations for teaching-degree programmes)								
Module	appea	irs in						
Bachelo	or's deg	gree (1 major) Biology (20	915)					
First state examination for the teaching degree Grundschule Biology (2015)								
First sta	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 Mittelschule Biology (2015)								
Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Pielegy (2020 (Drüfungsordnungsversion 2015))								
Bachelo	Bachelor's degree (1 maior) Biology (2021)							
Bachelo	Bachelor's degree (1 major) Biology (2022)							
	- (

Supervising Tutorial for Biology 3 or SQF-TSB3-152-m01 Module coordinator Module of grading Only after succ. compl. of module(s) ECTS Method of grading Only after succ. compl. of module(s) Coordinator Module for Biology Only after succ. compl. of module(s) To an interval of paradox of module(s) Module level Other prerequisites Interval Module level Other prerequisites Interval Module for Biology of the natural sciences. Seessment ungraded, pass required (a ECTS cordits); decision on credit transfer to be made by module coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Interval dearning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Course: For the module can be chosen to earn a bonus) Prof of tutoring activities and report (approx. 2 to 3 pages) Corditable for bonus Additional information	Module title					Abbreviation		
Module Coordinator Isolator Isolator <thisolator< th=""> Isolator <thisolator< th=""> Isolator <thisolator< th=""></thisolator<></thisolator<></thisolator<>	Supervising Tutorial for Biology 3					07-SQF-TSB3-152-m01		
Coordinator BioCareers Faculty of Biology ECTS Method of grading Only after succ. compt. of module(s) 3 (noi) successfully completed Duration Module level Other prerequisites 1 semester graduate Contents Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by mo- dule coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Intended learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language — if other than German) T (o) 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 ear a bonus) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places	Module coordinator Module offered by							
ECTS Method of grading Only after succ. compl. of module(s) 3 (not) successfully completed 1 sem ster (graduate) Contents graduate Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by module coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Intended learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language — if other than German) T T (o) 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) Proof of tutoring activities and report (approx. 2 to 3 pages)	Coordir	ator Bi	oCareers		Faculty of Biology			
3 [not) successfully completed Duration Module level Other prerequisites 1 semester graduate Contents Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by module coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Intended learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language – if other than German) T (o) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module can be chosen to eam a bonus) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Alditional information Additional information Go h Referred to in LPO 1 (examination regulations for teaching-degree programmes) Referred to in LPO 1 (examination re	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
Duration Module level Other prerequisites 1 semester graduate Contents Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by module coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Intendel learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language — if other than German) I (o)	3	(not) s	successfully completed					
1 semester graduate	Duratio	n	Module level	Other prerequisites				
Contents Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by mo- dule coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Intended learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language — if other than German) T (o) 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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places	1 semes	ster	graduate					
Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by mo- dule coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law. Intendel learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language – if other than German) T (o) 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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places 	Conten	ts						
Intended learning outcomes Specific skills and knowledge on a specific subject in an area other than biology or the natural sciences. Courses (type, number of weekly contact hours, language — if other than German) T (0) 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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places	Regular or other science dule co econom	Regular specific lecture, seminar, workshop, retreat or practical course (1 weekly contact hour), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (2 ECTS credits); decision on credit transfer to be made by mo- dule coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law						
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Courses (type, number of weekly contact hours, language — if other than German) T (o) 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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places Additional information Workload go h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Bachelor's degree (1 major) Biology (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major) Biology (2021)	Specific	: skills	and knowledge on a spe	cific subject in an are	a other than biology	or the natural sciences.		
T (o) 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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places	Courses	s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)		
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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus Allocation of places	T (o)							
Allocation of places Additional information Workload go h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Bachelor's degree (1 major) Biology (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) First state examination for the teaching degree Mittelschule Biology (2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major) Biology (2022)	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) Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus							
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