

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Biology as Unterrichtsfach with the degree "Erste Staatsprüfung für das Lehramt an Realschulen"

Responsible: Faculty of Biology

Examination regulations version: 2015

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

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

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

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

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

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

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

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

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

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

LASPO2015

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

20-Oct-2015 (2015-196)

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

Every module will be described using the following form:

Abbreviation	Module title						
	ECTS		Duration	(in semesters)	Method of grading		Module level
	Courses		To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y				
	Method of assessment						
	Only after successful completion of		if applicable				
	Other prerequisites		if applicable				
	Participants and allocation of places		if applicable				
	Additional information		if applicable				
	Referred to in LPO I		if applicable (examination regulations for teaching-degree programmes)				

Scientific Discipline (60 ECTS credits)								
Compulsory Courses (54 ECTS credits)								
07-LA-BIO1-ZE-152-m01	Structure and Function of Cells							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (3)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
	Referred to in LPO I		§ 41 I Nr. 1 (3 ECTS credits) and § 41 I 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 I Nr. 1 (3 ECTS credits) and § 61 I Nr. 3 (1 ECTS credits)					
07-LA-BIO1-PF-152-m01	Plant Kingdom							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (1.5) + Ü (2.5)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
	Referred to in LPO I		§ 41 I Nr. 1 § 61 I Nr. 1					
07-LA-1A1TI-152-m01	Evolution and the Animal Kingdom							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (3)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
	Referred to in LPO I		§ 41 I Nr. 1 (4 ECTS credits) § 41 I Nr. 4 (1 ECTS credits) § 61 I Nr. 1 (4 ECTS credits) § 61 I Nr. 4 (1 ECTS credits)					
07-GMR-PHYPF-152-m01	Plant Physiology - GMR							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü (2)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
	Referred to in LPO I		§ 41 I Nr. 2					

07-LA-2A2PHY-TI-152-mo1	Animal Physiology							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (1) + Ü (2)						
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 2 § 61 I Nr. 2						
07-GMR-OE-KO-152-mo1	Plant and Animal Ecology - GMR							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (2) + Ü (2)						
	Method of assessment	written examination (approx. 90 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 4						
07-GMR-GV-152-mo1	Genetics and Behaviour							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (1) + Ü (3.5)						
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 3 (3 ECTS credits), § 41 I Nr. 4 (2 ECTS credits)						
07-LA-FLO-RA-152-mo1	The Flora of Germany							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	E (2.5) + V (1) + Ü (2)						
	Method of assessment	written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes) Assessment offered: Once a year, summer semester creditable for bonus						
	other prerequisites	Admission prerequisite to assessment: regular attendance of field trips (minimum 80%).						
	Referred to in LPO I	§ 41 I Nr. 1 (3 ECTS credits) and § 41 I Nr. 4 (2 ECTS credits) § 61 I Nr. 1 (3 ECTS credits) and § 61 I Nr. 4 (2 ECTS credits)						
07-LA-FAU-NA-152-mo1	The Fauna of Germany							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (1) + Ü (2) + E (2.5)						
	Method of assessment	written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes) creditable for bonus						
	other prerequisites	Admission prerequisite to assessment: regular attendance of field trips (minimum 80%).						
	Referred to in LPO I	§ 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)						

07-GMR-HU-BIO-1-152-m01	Basic Human Biology I - GMR							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (3)						
	Method of assessment	written examination (approx. 60 to 90 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 5						
07-LA-HU-BIO-2-152-m01	Basic Human Biology II							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (3)						
	Method of assessment	Logs (approx. 30 hours) and 10 to 15 drawings creditable for bonus						
	Modules successfully completed	07-LA-HUBIO-1 or 07-GMR-HUBIO-1						
07-GMR-MI-BI-152-m01	Advanced Microbiology - GMR							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (2)						
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 2 (2 ECTS credits), § 41 I Nr. 3 (2 ECTS credits)						
Compulsory Electives (6 ECTS credits)								
07-RS-FBW-B-152-m01	Advanced Biology - Botany (RS)							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (5) + S (2)						
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 2						
07-RS-FBW-Z-152-m01	Advanced Biology - Zoology (RS)							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (5) + S (2)						
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus						
	Referred to in LPO I	§ 41 I Nr. 2						

Teaching (12 ECTS credits)								
Compulsory Courses (12 ECTS credits)								
07-GMR-FD-BIO-1-152-m01	Didactics in Biology I: Basics GMR							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + S (3)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
	Referred to in LPO I		§ 41 I Nr. 6					
07-GMR-FD-BIO-2-152-m01	Didactics Biology II: Special Didactics GMR							
	ECTS	6	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (2) + S (2)					
	Method of assessment		portfolio (approx. 30 hours) creditable for bonus					
	Referred to in LPO I		§ 41 I Nr. 6					
Paper (4 ECTS credits)								
Students studying for a teaching degree Realschule must complete a practical training in didactics and teaching methodology (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 (general academic and examination regulations for teaching-degree programmes).								
07-RS-FD-SP-152-m01	Practical Training in Didactics and Teaching Methodology and accompanying tutorial in Biology (Realschulen)							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (2) + P (4)					
	Method of assessment		term paper (15 to 20 pages) Participation in mandatory teaching practice, completion of all set tasks as specified by the placement school. creditable for bonus					
	Referred to in LPO I		§ 34 I S. 1 Nr. 4					
Freier Bereich (general as well as subject-specific electives)								
Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below.								

Freier Bereich -- interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".

Biology

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

07-SQF-TFB3-152-m01	Supervising Tutorial for Basic Courses 3							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		T (o)					
	Method of assessment		Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus					
07-SQF-TFB4-152-m01	Supervising Tutorial for Basic Courses 4							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		T (o)					
	Method of assessment		Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus					
07-SQF-TFB5-152-m01	Supervising Tutorial for Basic Courses 5							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		T (o)					
	Method of assessment		Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus					
07-SQF-TSB2-152-m01	Supervising Tutorial for Biology 2							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (o)					
	Method of assessment		Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus					
07-SQF-TSB3-152-m01	Supervising Tutorial for Biology 3							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (o)					
	Method of assessment		Proof of tutoring activities and report (approx. 2 to 3 pages) creditable for bonus					
07-LA-ZQN2-152-m01	Additional Qualification MINT 2							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (2)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					

07-LA-ZQN3-152-m01	Additional Qualification MINT 3							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (3)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
07-LA-ZQN4-152-m01	Additional Qualification MINT 4							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (4)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
07-LA-ZQN5-152-m01	Additional Qualification MINT 5							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (4)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					
07-LA-ZQN6-152-m01	Additional Qualification MINT 6							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (4)					
	Method of assessment		written examination (approx. 60 minutes) creditable for bonus					

07-4S1MEER-152-m01	Ecology and Developmental Biology of Marine Organisms							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (4) + E (2) + S (2)						
	Method of assessment	Log (approx. 10 to 20 pages) creditable for bonus						
	Participants and allocation of places	<p>18 places.</p> <p>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 consideration. Should the module be used in other subjects, there will be two quotas: 95% of places will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits and 5% of places (a minimum 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 potentially 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.</p> <p>A waiting list will be maintained and places re-allocated as they become available.</p> <p>Selection process group 1 (95%): Places will primarily be allocated according to the applicants' previous academic achievements.</p> <p>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 follows: First, applicants will be ranked, firstly, according to their average grade weighted according to the number 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 rankings, and places will be allocated according to this third ranking.</p> <p>Among applicants with the same ranking, places will be allocated according to the qualitative ranking or otherwise by lot.</p> <p>Selection process group 2 (5%): Places will be allocated according to the following quotas: Quota 1 (50 % of places): total number of ECTS credits already achieved in modules of the Faculty of Biology; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25 % of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, 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.</p>						
07-LA-EX-KURS1-152-m01	Excursion on Zoology or Botany I							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (2)						
	Method of assessment	<p>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</p> <p>Students will be informed about the method and length of the assessment prior to the course.</p> <p>creditable for bonus</p>						

07-LA-EX-KURS2-152-m01	Excursion on Zoology or Botany II							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (4)						
	Method of assessment	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						
07-LA-FB-ASL-152-m01	Extracurricular Places of Learning in Biology							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (2) + S (2)						
	Method of assessment	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						
07-LA-FB-KO-152-m01	Skills Orientated Learning in Biology							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (2) + S (2)						
	Method of assessment	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						
07-LA-FB-EL-152-m01	Habitats of Germany							
	ECTS	5	Duration	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (3)						
	Method of assessment	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						
	Referred to in LPO I	§ 36 I Nr. 7						

07-LA-FB-VFD-152-m01	Advanced Didactics in Biology							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (2)					
	Method of assessment		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					
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 Realschule may write this thesis in one of the subjects they selected as Unterrichtsfach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.								
07-RS-HA-152-m01	Thesis in Biology (Realschulen)							
	ECTS	10	Duration		Method of grading	numerical grade	Modul level	undergraduate
	Courses		No courses assigned to module					
	Method of assessment		written thesis (30 to 50 pages)					