

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject **Biology** with the degree "Erweiterungsprüfung für das Lehramt an Gymnasien" (ECTS credits)

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 (2015-194)

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 (92 ECTS credits)								
Area 1 (80 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-LA-2A2PHY-PR-152-m01	Physiology of Prokaryotes							
	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		§ 61 I Nr. 3					
07-LA-2A2PHYPF-152-m01	Plant 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		§ 61 I Nr. 2					
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07-LA-2A2PHY-TI-152-m01	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-LA-2A2GEN-V-152-m01	Genetics, Neurobiology, Behaviour							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (3) + Ü (2.5)						
	Method of assessment	written examination (approx. 60 to 90 minutes) creditable for bonus						
	Referred to in LPO I	§ 61 I Nr. 2 (1 ECTS credits), § 61 I Nr. 3 (2 ECTS credits), § 61 I Nr. 4 (2 ECTS credits)						
07-3A3OE-KO-152-m01	Plant and Animal Ecology							
	ECTS	6	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	§ 61 I Nr. 4						
07-3A3G-MOT-152-m01	Genes, Molecules, Technologies							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (4)						
	Method of assessment	written examination (approx. 90 minutes) creditable for bonus						
	Referred to in LPO I	§ 61 I Nr. 1						
07-LA-FLO-RA-152-m01	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-m01	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	§ 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-GY-BFM-152-m01	Research Methods in Biology							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (3)						
	Method of assessment	a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) or g) term paper (approx. 10 to 30 pages) or h) project (approx. 10 to 30 pages) or i) 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	§ 61 I Nr. 7						
07-GY-FOP-152-m01	Research-oriented working in Biology							
	ECTS	7	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (4)						
	Method of assessment	a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) or g) term paper (approx. 10 to 30 pages) or h) project (approx. 10 to 30 pages) or i) 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	§ 61 I Nr. 7						

07-LA-HU-BIO-1-152-m01	Basic Human Biology I - GY								
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses	V (3)							
	Method of assessment	written examination (approx. 60 to 90 minutes) creditable for bonus							
	Referred to in LPO I	§ 61 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-GY-MI-BI-152-m01	Advanced Microbiology - GY								
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses	Ü (3)							
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus							
	other prerequisites	Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.							
Area 2 (12 ECTS credits)	Area 2 (12 ECTS credits)								
	Developmental biology (4 ECTS credits)								
	07-LA-3A3EBIO-TI-152-m01	Developmental Biology of Animals							
		ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
		Courses	V (1) + Ü (3)						
Method of assessment		written examination (approx. 60 minutes) creditable for bonus							
Referred to in LPO I		§ 61 I Nr. 6							
07-LA-3A3E-BIOPF-152-m01	Developmental Biology of Plants								
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses	V (1) + Ü (3)							
	Method of assessment	written examination (approx. 60 minutes) creditable for bonus							
	Referred to in LPO I	§ 61 I Nr. 6							

Area 2 (12 ECTS credits)

Developmental biology (4 ECTS credits)

Advanced Biology (8 ECTS credits)								
07-GY-FBW-B-152-m01	Advanced Biology - Botany							
	ECTS	8	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		§ 61 I Nr. 6					
07-GY-FBW-Z-152-m01	Advanced Biology - Zoology							
	ECTS	8	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		§ 61 I Nr. 6					
Teaching (10 ECTS credits)								
Area 1 (10 ECTS credits)								
07-GY-FD-BIO-1-152-m01	Didactics in Biology I: Basics							
	ECTS	5	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		§ 61 I Nr. 8					
07-GY-FD-BIO-2-152-m01	Didactics Biology II: Special Didactics							
	ECTS	5	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		§ 61 I Nr. 8					
Freier Bereich (general as well as subject-specific electives) (0-15 ECTS credits)								
Biology (Freier Bereich (general as well as subject-specific electives) -- subject specific)								
07-GY-FBW-B-152-m01	Advanced Biology - Botany							
	ECTS	8	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		§ 61 I Nr. 6					

07-GY-FBW-Z-152-m01	Advanced Biology - Zoology							
	ECTS	8	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		§ 61 I Nr. 6					
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	18 places. 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. 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 academic 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 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. Among applicants with the same ranking, places will be allocated according to the qualitative ranking or otherwise by lot. 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.						
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	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-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					