

Module Catalogue

for the Subject

Biology

as a minor in a Bachelor's degree programme

(60 ECTS credits)

Examination regulations version: 2020 Responsible: Faculty of Biology

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record B1|026|-|-|N|2020



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The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	30	7
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Learning Outcomes

German contents and learning outcome available but not translated yet.

Wissenschaftliche Befähigung

- Die Absolventinnen und Absolventen verstehen die mathematischen, theoretischen und experimentellen Grundlagen der Biologie und können diese anwenden.
- Die Absolventinnen und Absolventen können unter Anleitung Experimente durchführen, analysieren und die erhaltenen Ergebnisse darstellen und bewerten.
- Die Absolventinnen und Absolventen sind in der Lage, naturwissenschaftliche Probleme durch Anwendung der wissenschaftlichen Arbeitsweise und unter Beachtung der Regeln guter wissenschaftlicher Praxis (Dokumentation, Fehleranalyse) zu bearbeiten.
- Die Absolventinnen und Absolventen können ihr Wissen und ihre Erkenntnisse einem Fachpublikum gegenüber darstellen und vertreten.
- Die Absolventinnen und Absolventen können ein gewisses Grundlagenwissen aus Teilgebieten der Biologie abrufen.
- Die Absolventinnen und Absolventen verstehen die wesentlichen Zusammenhänge und Konzepte der einzelnen Teilgebiete der Biologie.
- Die Absolventinnen und Absolventen sind in der Lage, sich mit Hilfe von Fachliteratur in neue Aufgabengebiete einzuarbeiten und zu bewerten.
- Die Absolventinnen und Absolventen besitzen Abstraktionsvermögen, analytisches Denken, Problemlösungskompetenz und die Fähigkeit, komplexe Zusammenhänge zu strukturieren.

Befähigung zur Aufnahme einer Erwerbstätigkeit

- Die Absolventinnen und Absolventen können ihr Wissen und ihre Erkenntnisse einem Fachpublikum gegenüber darstellen und vertreten.
- Die Absolventinnen und Absolventen sind in der Lage, konstruktiv und zielorientiert in einem heterogenen Team zusammenzuarbeiten, unterschiedliche und abweichende Ansichten produktiv zur Zielerreichung zu nutzen und auftretende Konflikte zu lösen (Teamfähigkeit).
- Die Absolventinnen und Absolventen können ihre erworbenen Kompetenzen in unterschiedlichen interkulturellen Kontexten und in international zusammengesetzten Teams anwenden.
- Die Absolventinnen und Absolventen sind in der Lage, Probleme und deren Lösungen zielgruppengerecht und auch in einer Fremdsprache aufzubereiten und darzustellen.
- Die Absolventinnen und Absolventen sind in der Lage natur- und biowissenschaftliche Methoden unter Anleitung auf konkrete experimentelle oder theoretische biologische Aufgabenstellungen anzuwenden, Lösungswege zu entwickeln und die Ergebnisse zu interpretieren und zu bewerten.
- Die Absolventinnen und Absolventen kennen die wichtigsten Anforderungen und Arbeitsweisen im industriellen Umfeld sowie in Forschung und Entwicklung.
- Die Absolventinnen und Absolventen sind befähigt, komplexere Probleme zu analysieren und zu lösen und sich sehr schnell auch in weniger vertraute Themenkomplexe einzuarbeiten.

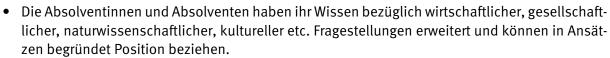
Persönlichkeitsentwicklung

- Die Absolventinnen und Absolventen kennen die Regeln guter wissenschaftlicher Praxis und beachten sie.
- Die Absolventinnen und Absolventen können ihr Wissen und ihre Erkenntnisse einem Fachpublikum gegenüber darstellen und vertreten.

Befähigung zum gesellschaftlichen Engagement

• Die Absolventinnen und Absolventen können ansatzweise naturwissenschaftliche Entwicklungen kritisch reflektieren und deren Auswirkungen auf die Wirtschaft, Gesellschaft und die Umwelt in Ansätzen erfassen (Technikfolgenabschätzung).

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• Die Absolventinnen und Absolventen entwickeln die Bereitschaft und Fähigkeit, ihre Kompetenzen in partizipative Prozesse einzubringen und aktiv an Entscheidungen mitzuwirken.

Julius-Maxir

UNIVERSITÄT

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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:

ASPO2015

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

14-Oct-2020 (2020-99)

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



Compulsory Courses

(30 ECTS credits)

Module	title				Abbreviation	
The Pla	nt King	gdom			07-1A1ZPF-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	exercises (minimum	site to assessment: (80%) and successf 5 to 30 hours) are p	ul completion of the	respective
Conten	ts					
At the lo derstan lutional biologio cientist	evel of nd the f ry and cal orga is are o	mple of plants, students groups in the plant kingo forms and functions of pl ecological context. The c anisation. Students will a ften required to possess	dom, students will ac ant organisms, with r ontents of the modul also acquire and prac	quire the fundament norphology and cyto e are relevant for bio	al knowledge neces logy being discusse logical disciplines a	sary to un- d in an evo- t all levels of
		ning outcomes dge of the specific chara	staviation of the inter		llular atmustures of a	alant calla
 A Fa Fa ir A Fa Fa 	amiliar amiliar n the pl bility to amiliar undam	o recognise evolution as ity with the concepts of p ity with the distinguishir lant kingdom. o select those plant and f ity with the components ental skills in the interpr ental preparation skills.	ohylogenetic relations ng characteristics and fungal organisms tha and functioning of m	ships between plants d major representati t are most suitable fo icroscopes.	s/fungi. ves of fungi as well or particular scientif	ic issues.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (1.5) +	⊦Ü (2.5	5)				
		Sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, informati	on on whether
written credital		nation (approx. 60 minut bonus	es)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation	-			
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPOI (examination regulation	s for teaching-degree progra	mmes)		
Module						
Bachelo	or's de	gree (1 major) Biology (20	015)			
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Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 1 minor) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module	e title				Abbreviation
Evoluti	on and	the Animal Kingdom			07-1A1TI-152-m01
Module	e coord	inator		Module offered by	
holder Electro		Professorship of Zoology scopy	at the Department of	Faculty of Biology	
ECTS	Meth	od of grading	Only after succ. compl. of module(s)		
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 semesterundergraduateAdmission prerequisite to assessment: exercises. Regular a (minimum 80%) and successful completion of exercises (a 30 hours) are prerequisites for admission to assessment.		tion of exercises (approx. 25 to			
Conter	te		<u> </u>	•	

Contents

The lecture *Evolution* will acquaint students with fundamental concepts and mechanisms of evolutionary biology: 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 *Tierreich (Animal Kingdom)* 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 practise working with light microscopes and stereo microscopes and will acquire fundamental preparation skills. They 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.

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

V (2) + Ü (3)

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

written examination (approx. 60 minutes) creditable for bonus

Allocation of places

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Additional information

Workload

150 h

Teaching cycle

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

§ 41 | Nr. 1 (4 ECTS credits) and § 41 | Nr. 4 (1 ECTS credits) § 61 | Nr. 1 (4 ECTS credits) and § 61 | Nr. 4 (1 ECTS credits)

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Module	appears	in
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Bachelor's degree (1 major) Biology (2015)
Bachelor's degree (1 major) Computer Science (2015)
Bachelor's degree (1 major) Mathematics (2015)
Bachelor's degree (1 major) Computational Mathematics (2015)
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)
Bachelor's degree (1 major) Biology (2017)
Bachelor's degree (1 major) Computer Science (2017)
Bachelor's degree (1 major) Computer Science (2019)
Bachelor's degree (1 major) Biology (2021)
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)
Bachelor's degree (1 major) Biology (2022)
Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)
Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)
Bachelor's degree (1 major) Mathematics (2023)
Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Modul	e title				Abbreviation	
Geneti	cs, Neu	robiology, Behaviour			07-2A2GENV-152-m	01
Modul	e coord	inator		Module offered by	<u> </u>	
Dean c	of Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	1	od of grading	Only after succ. con			
5	1	rical grade				
Durati		Module level	Other prerequisites			
	-				averaione Describer at	
1 semesterundergraduateAdmission prerequisite to assessment: exercises. Regular atte (minimum 80%) and successful completion of exercises (appr 30 hours) are prerequisites for admission to assessment.						
Conter	nts					
Funda	mental	principles of genetics, n	eurobiology and beha	vioural biology.		
Intend	ed lear	ning outcomes				
volved heritar	in anin Ice.	understand that there a nal behaviour and will b	e able to relate anima	l behaviour to the m		
	S (type, r	number of weekly contact hours	, language — If other than Ger	man)		
V (3)						
module i	s creditab	essment (type, scope, langule for bonus)		examination offered — if no	ot every semester, informati	ion on whether
	examination ble for	nation (approx. 60 to 90 bonus	o minutes)			
Alloca	tion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
-	ng cycl	ρ				
reactin	ing cyce		_			
Poforr	ad to in	IPOL (avamination regulation	no for tooching dograa progra	(mmac)		
		LPOI (examination regulatio	ns for teaching-degree progra	immes)		
-	•	ECTS credits) ECTS credits)				
		ECTS credits)				
	e appea					
		gree (1 major) Biology (2	2015)			
		gree (1 major) Computer	-			
		gree (1 major) Mathema				
		gree (1 major) Computat		015)		
Bache	lor's de	gree (1 major, 1 minor) E	Biology (Minor, 2015)			
		gree (1 major) Biology (2				
		gree (1 major) Computer				
		gree (1 major) Computer	-			
		es (Bachelor) Biology (20	•			
		es (Bachelor) Orientieru gree (1 major) Biology (2	-			
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Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module	e title				Abbreviation	
Legal a	nd Ethi	cal Aspects in Biologic	al Sciences		07-SQF-RETH-211-m	01
Module	coord	inator		Module offered by	<u> </u>	
		es Biologie (Biology)		Faculty of Biology		
-			Only offer succ. com			
ECTS		od of grading	Only after succ. com			
5		rical grade				
Duratio	n	Module level	Other prerequisites			
1 semester undergraduate Admission prerequisite to assessment: exercises. Regular attendance exercises (minimum 80%) and successful completion of the respect exercises (approx. 25 to 30 hours) are prerequisites for admission to sessment.				respective		
Conten	ts					
animal	testing		hical aspects surround n agriculture, biodivers tics.			
Intende	ed learn	ning outcomes				
ding ste sity and	em cell d natur	research, cloning, tran e conservation, biotech	ples of good scientific p sgenic animals, anima nology and microbiolo exts. Students are able	l testing, genetic en gy, medicine and ne	gineering in agricultu eurogenetics and are	ure, biodiver- able to eva-
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ger	man)		
V (1) + ĺ	 (1) ت					
		e ssment (type, scope, lang le for bonus)	uage — if other than German, e	examination offered — if no	ot every semester, informat	on on whether
	ge of a	nation (approx. 30 to 6 ssessment: German an bonus				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Additio						
Worklo						
	au					
150 h						
Teachir						
Teachir	ng cycle	e: every year, summer s	emester			
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	appea	rs in				
Bachel	or's deg	gree (1 major) Biology (2011)			
		gree (1 major) Chemistr				
		gree (1 major) Psycholo				
		gree (1 major, 1 minor)				
			Political and Social Stu	-		
			Russian Language and	Culture (2008)		
		gree (2 majors) Special	-			
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First state examination for the teaching degree Grundschule English (2009) First state examination for the teaching degree Grundschule Biology (2009) First state examination for the teaching degree Grundschule Chemistry (2009) First state examination for the teaching degree Grundschule Geography (2009) First state examination for the teaching degree Grundschule Protestant Theology (2009) First state examination for the teaching degree Grundschule German (2009) First state examination for the teaching degree Grundschule History (2009) First state examination for the teaching degree Grundschule History (2015) First state examination for the teaching degree Grundschule Catholic Theology (2009) First state examination for the teaching degree Grundschule Mathematics (2009) First state examination for the teaching degree Grundschule Music (2009) First state examination for the teaching degree Grundschule Physics (2009) First state examination for the teaching degree Grundschule Social Science (2009) First state examination for the teaching degree Grundschule Science of Sport (2009) First state examination for the teaching degree Hauptschule English (2009) First state examination for the teaching degree Hauptschule Biology (2009) First state examination for the teaching degree Hauptschule Chemistry (2009) First state examination for the teaching degree Hauptschule Geography (2009) First state examination for the teaching degree Hauptschule Protestant Theology (2009) First state examination for the teaching degree Hauptschule German (2009) First state examination for the teaching degree Hauptschule History (2009) First state examination for the teaching degree Hauptschule Catholic Theology (2009) First state examination for the teaching degree Hauptschule Mathematics (2009) First state examination for the teaching degree Hauptschule Music (2009) First state examination for the teaching degree Hauptschule Physics (2009) First state examination for the teaching degree Hauptschule Social Science (2009) First state examination for the teaching degree Hauptschule Science of Sport (2009) First state examination for the teaching degree Realschule English (2009) First state examination for the teaching degree Realschule Biology (2009) First state examination for the teaching degree Realschule Chemistry (2009) First state examination for the teaching degree Realschule Geography (2009) First state examination for the teaching degree Realschule Protestant Theology (2009) First state examination for the teaching degree Realschule French Studies (2009) First state examination for the teaching degree Realschule German (2009) First state examination for the teaching degree Realschule History (2009) First state examination for the teaching degree Realschule Computer Science (2012) First state examination for the teaching degree Realschule Catholic Theology (2009) First state examination for the teaching degree Realschule Mathematics (2009) First state examination for the teaching degree Realschule Music (2009) First state examination for the teaching degree Realschule Physics (2009) First state examination for the teaching degree Realschule Science of Sport (2009) First state examination for the teaching degree Gymnasium English (2009) First state examination for the teaching degree Gymnasium Biology (2009) First state examination for the teaching degree Gymnasium Chemistry (2009) First state examination for the teaching degree Gymnasium Geography (2009) First state examination for the teaching degree Gymnasium French Studies (2009) First state examination for the teaching degree Gymnasium German (2009) First state examination for the teaching degree Gymnasium History (2009) First state examination for the teaching degree Gymnasium Greek Philology (2009) First state examination for the teaching degree Gymnasium Computer Science (2009) First state examination for the teaching degree Gymnasium Italian Studies (2009) First state examination for the teaching degree Gymnasium Catholic Theology (2009) First state examination for the teaching degree Gymnasium Latin Philology (2009) JMU Würzburg • generated 19-Apr-2025 • exam. minor in a Bachelor's degree programme Biology page 15 / 76 reg. data record Bachelor (60 ECTS) Biologie - 2020 (2020)

First state examination for the teaching degree Gymnasium Mathematics (2012) First state examination for the teaching degree Gymnasium Mathematics (2009) First state examination for the teaching degree Gymnasium Music (2009) First state examination for the teaching degree Gymnasium Physics (2009) First state examination for the teaching degree Gymnasium Russian (2009) First state examination for the teaching degree Gymnasium Social Science (2009) First state examination for the teaching degree Gymnasium Spanish Studies (2009) First state examination for the teaching degree Gymnasium Science of Sport (2009) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Secondary Education (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2009) First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2013) First state examination for the teaching degree Mittelschule English (2013) First state examination for the teaching degree Mittelschule Biology (2013) First state examination for the teaching degree Mittelschule Chemistry (2013) First state examination for the teaching degree Mittelschule Geography (2013) First state examination for the teaching degree Mittelschule Protestant Theology (2013) First state examination for the teaching degree Mittelschule German (2013) First state examination for the teaching degree Mittelschule History (2013) First state examination for the teaching degree Mittelschule Catholic Theology (2013) First state examination for the teaching degree Mittelschule Mathematics (2013) First state examination for the teaching degree Mittelschule Physics (2013) First state examination for the teaching degree Mittelschule Social Science (2013) First state examination for the teaching degree Mittelschule Science of Sport (2013) Bachelor's degree (2 majors) English and American Studies (2009) Bachelor's degree (2 majors) German Language and Literature (2013) Bachelor's degree (1 major) Chemistry (2015) Bachelor's degree (1 major) Geography (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Musicology (2015) Bachelor's degree (1 major) Physics (2015) Bachelor's degree (1 major) Psychology (2015) Bachelor's degree (1 major) Business Management and Economics (2015) Bachelor's degree (1 major) Nanostructure Technology (2015) Bachelor's degree (1 major) Music Education (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major) Political and Social Studies (2015) Bachelor's degree (1 major) Functional Materials (2015) Bachelor's degree (1 major) Academic Speech Therapy (2015) Bachelor's degree (1 major) Indology/South Asian Studies (2015) Bachelor's degree (1 major, 1 minor) Egyptology (2015) Bachelor's degree (1 major, 1 minor) Pedagogy (2015) Bachelor's degree (1 major, 1 minor) History (2015) Bachelor's degree (1 major, 1 minor) Musicology (2015) Bachelor's degree (1 major, 1 minor) Philosophy (2015) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015) Bachelor's degree (1 major, 1 minor) Ancient World (2015) Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015) Bachelor's degree (1 major, 1 minor) Theological Studies (2015) Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015) Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015) Bachelor's degree (1 major, 1 minor) German Language and Literature (2015) Bachelor's degree (2 majors) Egyptology (2015) minor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 16 / 76 (2020) reg. data record Bachelor (60 ECTS) Biologie - 2020

Bachelor's degree (2 majors) Pedagogy (2015) Bachelor's degree (2 majors) Protestant Theology (2015) Bachelor's degree (2 majors) Musicology (2015) Bachelor's degree (2 majors) Philosophy (2015) Bachelor's degree (2 majors) Special Education (2015) Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015) Bachelor's degree (2 majors) Latin Philology (2015) Bachelor's degree (2 majors) Music Education (2015) Bachelor's degree (2 majors) Philosophy and Religion (2015) Bachelor's degree (2 majors) Theological Studies (2015) Bachelor's degree (2 majors) Political and Social Studies (2015) Bachelor's degree (2 majors) Russian Language and Culture (2015) Bachelor's degree (2 majors) Greek Philology (2015) Bachelor's degree (2 majors) European Ethnology (2015) Bachelor's degree (2 majors) Indology/South Asian Studies (2015) First state examination for the teaching degree Grundschule English (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Grundschule Geography (2015) First state examination for the teaching degree Grundschule German (2015) First state examination for the teaching degree Grundschule Catholic Theology (2015) First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2015) First state examination for the teaching degree Grundschule Physics (2015) First state examination for the teaching degree Grundschule Social Science (2015) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Geography (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Catholic Theology (Primary School) (2015)First state examination for the teaching degree Grundschule Art Education in Primary School (2015) First state examination for the teaching degree Grundschule Didactics in Science of Sport (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Grundschule Music Education in Primary School (2015) First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Social Science (Primary School) (2015) First state examination for the teaching degree Grundschule Science of Sport (2015) First state examination for the teaching degree Realschule English (2015) First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Realschule Geography (2015) First state examination for the teaching degree Realschule Protestant Theology (2015) First state examination for the teaching degree Realschule French Studies (2015) First state examination for the teaching degree Realschule German (2015) First state examination for the teaching degree Realschule History (2015) First state examination for the teaching degree Realschule Computer Science (2015) First state examination for the teaching degree Realschule Catholic Theology (2015) First state examination for the teaching degree Realschule Mathematics (2015) First state examination for the teaching degree Realschule Physics (2015) First state examination for the teaching degree Realschule Science of Sport (2015) minor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 17 / 76 reg. data record Bachelor (60 ECTS) Biologie - 2020 (2020)

First state examination for the teaching degree Gymnasium English (2015) First state examination for the teaching degree Gymnasium Biology (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Gymnasium Geography (2015) First state examination for the teaching degree Gymnasium French Studies (2015) First state examination for the teaching degree Gymnasium German (2015) First state examination for the teaching degree Gymnasium History (2015) First state examination for the teaching degree Gymnasium Greek Philology (2015) First state examination for the teaching degree Gymnasium Computer Science (2015) First state examination for the teaching degree Gymnasium Italian Studies (2015) First state examination for the teaching degree Gymnasium Catholic Theology (2015) First state examination for the teaching degree Gymnasium Latin Philology (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) First state examination for the teaching degree Gymnasium Physics (2015) First state examination for the teaching degree Gymnasium Russian (2015) First state examination for the teaching degree Gymnasium Social Science (2015) First state examination for the teaching degree Gymnasium Spanish Studies (2015) First state examination for the teaching degree Gymnasium Science of Sport (2015) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2015) First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Social Science (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2015) First state examination for the teaching degree Mittelschule English (2015) First state examination for the teaching degree Mittelschule Biology (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) minor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 18 / 76 reg. data record Bachelor (60 ECTS) Biologie - 2020 (2020)

First state examination for the teaching degree Mittelschule Geography (2015) First state examination for the teaching degree Mittelschule Protestant Theology (2015) First state examination for the teaching degree Mittelschule German (2015) First state examination for the teaching degree Mittelschule History (2015) First state examination for the teaching degree Mittelschule Catholic Theology (2015) First state examination for the teaching degree Mittelschule Mathematics (2015) First state examination for the teaching degree Mittelschule Physics (2015) First state examination for the teaching degree Mittelschule Social Science (2015) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2015) First state examination for the teaching degree Mittelschule Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2015)First state examination for the teaching degree Mittelschule Art Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Science of Sport (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Music Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Social Science (Middle School) (2015) First state examination for the teaching degree Mittelschule Science of Sport (2015) First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2015) Bachelor's degree (2 majors) Geography (2015) Bachelor's degree (2 majors) French Studies (2015) Bachelor's degree (2 majors) History (2015) Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015) Bachelor's degree (2 majors) German Language and Literature (2015) Bachelor's degree (1 major) Mathematical Physics (2016) First state examination for the teaching degree Grundschule Protestant Theology (2015) First state examination for the teaching degree Grundschule Music (2015) First state examination for the teaching degree Grundschule Didactics in Protestant Theology (Primary School) (2015) First state examination for the teaching degree Realschule Music (2015) First state examination for the teaching degree Gymnasium Music (2015) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Primary School) (2015) First state examination for the teaching degree Mittelschule Music (2015) Bachelor's degree (1 major, 1 minor) French Studies (2016) Bachelor's degree (2 majors) French Studies (2016) Bachelor's degree (1 major, 1 minor) Italian Studies (2016) Bachelor's degree (2 majors) Italian Studies (2016) Bachelor's degree (1 major, 1 minor) Spanish Studies (2016) Bachelor's degree (2 majors) Spanish Studies (2016) Bachelor's degree (1 major) Romanic Languages (French/Italian) (2016) Bachelor's degree (1 major) Romanic Languages (French/Spanish) (2016) Bachelor's degree (1 major) Romanic Languages (Italian/Spanish) (2016)

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Bachelor's degree (1 major) Business Information Systems (2016) First state examination for the teaching degree Gymnasium French Studies (2016) First state examination for the teaching degree Gymnasium Italian Studies (2016) First state examination for the teaching degree Gymnasium Spanish Studies (2016) First state examination for the teaching degree Realschule French Studies (2016) Bachelor's degree (1 major) Games Engineering (2016) Bachelor's degree (1 major, 1 minor) English and American Studies (2016) Bachelor's degree (2 majors) English and American Studies (2016) First state examination for the teaching degree Grundschule English (2016) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2016) First state examination for the teaching degree Realschule English (2016) First state examination for the teaching degree Gymnasium English (2016) First state examination for the teaching degree Mittelschule English (2016) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2016) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2016) Bachelor's degree (1 major) Media Communication (2016) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major, 1 minor) Digital Humanities (2016) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 minor) Geography (2017) Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017) Bachelor's degree (2 majors) History of Medieval and Modern Art (2017) Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017) Bachelor's degree (1 major) Aerospace Computer Science (2017) Bachelor's degree (1 major) Biochemistry (2017) Bachelor's degree (1 major) Chemistry (2017) Bachelor's degree (1 major, 1 minor) Museology and material culture (2017) Bachelor's degree (1 major) Economathematics (2017) Bachelor's degree (1 major) Games Engineering (2017) Bachelor's degree (1 major) Computer Science (2017) First state examination for the teaching degree Gymnasium Greek Philology (2018) Bachelor's degree (1 major) Media Communication (2018) Bachelor's degree (1 major) Biomedicine (2018) Bachelor's degree (1 major) Human-Computer Systems (2018) Bachelor's degree (2 majors) Classical Archaeology (2018) Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018) Bachelor's degree (1 major, 1 minor) Digital Humanities (2018) Bachelor's degree (2 majors) Digital Humanities (2018) First state examination for the teaching degree Grundschule Physics (2018) First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2018) First state examination for the teaching degree Realschule Physics (2018) First state examination for the teaching degree Gymnasium Physics (2018) First state examination for the teaching degree Mittelschule Physics (2018) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2018) Bachelor's degree (1 major) Computer Science (2019) First state examination for the teaching degree Gymnasium Mathematics (2019) Bachelor's degree (1 major, 1 minor) English and American Studies (2019) Module studies (Bachelor) Biology (2019) Bachelor's degree (1 major) Indology/South Asian Studies (2019) Bachelor's degree (1 major) Business Information Systems (2019) Bachelor's degree (2 majors) Indology/South Asian Studies (2019) Bachelor's degree (1 major) Business Management and Economics (2019) minor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 20 / 76 (2020) reg. data record Bachelor (60 ECTS) Biologie - 2020

Bachelor's degree (1 major) Modern China (2019)

Module studies (Bachelor) Orientierungsstudien (2020)

Bachelor's degree (1 major) Biomedicine (2020)

Bachelor's degree (1 major) Pedagogy (2020)

Bachelor's degree (1 major) Political and Social Studies (2020)

Bachelor's degree (1 major) Business Information Systems (2020)

Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020)

Bachelor's degree (2 majors) European Ethnology (2020)

Bachelor's degree (2 majors) Political and Social Studies (2020)

Bachelor's degree (2 majors) Special Education (2020)

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

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

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

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

First state examination for the teaching degree Mittelschule English (2020 (Prüfungsordnungsversion 2016)) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

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

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

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

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

First state examination for the teaching degree Mittelschule Science of Sport (2020 (Prüfungsordnungsversion 2015))

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

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

First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

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

First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Middle School) (2020 (Prüfungsordnungsversion 2015))

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

First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Primary School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Primary School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Primary School) (2020 (Prüfungsordnungsversion 2015))

Bachelor's degree (1 major) Physics (2020)

Bachelor's degree (1 major) Nanostructure Technology (2020)

Bachelor's degree (1 major) Mathematical Physics (2020)

Bachelor's degree (1 major) Aerospace Computer Science (2020)

Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)

First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2020)

First state examination for the teaching degree Grundschule Physics (2020)

First state examination for the teaching degree Gymnasium Physics (2020)

First state examination for the teaching degree Realschule Physics (2020)

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

First state examination for the teaching degree Mittelschule Physics (2020)

Bachelor's degree (1 major, 1 minor) Pedagogy (2020)

Bachelor's degree (2 majors) Pedagogy (2020)

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(2020)

First state examination for the teaching degree Grundschule Political and Social Studies (2020) First state examination for the teaching degree Grundschule Didactics in Political and Social Studies (Primary School) (2020) First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Sonderpädagogik Didactics in Political and Social Studies (Secondary School) (2020) First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Mittelschule Didactics in Political and Social Studies (Secondary School) (2020) First state examination for the teaching degree Mittelschule Political and Social Studies (2020) First state examination for the teaching degree Gymnasium Political and Social Studies (2020) Bachelor's degree (1 major) Psychology (2020) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Magister Theologiae Catholic Theology (2021) Bachelor's degree (2 majors) History (2021) Bachelor's degree (1 major, 1 minor) History (2021) First state examination for the teaching degree Grundschule History (2021) First state examination for the teaching degree Gymnasium History (2021) First state examination for the teaching degree Realschule History (2021) First state examination for the teaching degree Mittelschule History (2021) Bachelor's degree (1 major) Media Communication (2021) Bachelor's degree (2 majors) Theological Studies (2021) Bachelor's degree (1 major, 1 minor) Theological Studies (2021) Bachelor's degree (1 major, 1 minor) English and American Studies (2021) Bachelor's degree (2 majors) English and American Studies (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2021) First state examination for the teaching degree Gymnasium English (2021) Bachelor's degree (1 major) Functional Materials (2021) First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021) Bachelor's degree (1 major) Computer Science und Sustainability (2021) Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Quantum Technology (2021) Bachelor's degree (2 majors) Special Education (2021) Bachelor's degree (1 major) Business Information Systems (2021) Bachelor's degree (1 major) Economathematics (2021) Bachelor's degree (1 major) Business Management and Economics (2021) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2021) Bachelor's degree (1 major) Human-Computer Systems (2022) Bachelor's degree (1 major, 1 minor) Museology and material culture (2022) Bachelor's degree (1 major) Biochemistry (2022) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Economathematics (2022) Bachelor's degree (1 major) Mathematical Data Science (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022) Bachelor's degree (2 majors) Ancient Near Eastern Archaeology (2022) Bachelor's degree (1 major, 1 minor) Ancient World (2022) Bachelor's degree (2 majors) Ancient Near Eastern Studies (2022) Bachelor's degree (1 major) Franco-German studies: language, culture, digital competence (2022) First state examination for the teaching degree Gymnasium Russian (2023) minor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 23 / 76

reg. data record Bachelor (60 ECTS) Biologie - 2020

(2020)

First state examination for the teaching degree Gymnasium Mathematics (2023) First state examination for the teaching degree Gymnasium English (2023) First state examination for the teaching degree Realschule English (2023) First state examination for the teaching degree Grundschule English (2023) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2023) First state examination for the teaching degree Mittelschule English (2023) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2023) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2023) First state examination for the teaching degree Gymnasium Geography (2023) First state examination for the teaching degree Realschule Geography (2023) First state examination for the teaching degree Grundschule Geography (2023) First state examination for the teaching degree Mittelschule Geography (2023) Bachelor's degree (1 major) European Law (2023) Bachelor's degree (1 major, 1 minor) English and American Studies (2023) Bachelor's degree (2 majors) English and American Studies (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Business Information Systems (2023) Bachelor's degree (1 major) Economathematics (2023) Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2023) Bachelor's degree (2 majors) History of Medieval and Modern Art (2023) Bachelor's degree (2 majors) Special Education (2023) Bachelor's degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major) Geography (2023) Bachelor's degree (2 majors) Geography (2023) Bachelor's degree (1 major, 1 minor) Geography (2023) Bachelor's degree (2 majors) European Ethnology/Empiric Cultural Studies (2023) First state examination for the teaching degree Grundschule German (2024) First state examination for the teaching degree Gymnasium German (2024) First state examination for the teaching degree Realschule German (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2024) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2024) First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2024) First state examination for the teaching degree Mittelschule German (2024) Bachelor's degree (1 major) Mathematical Physics (2024) Bachelor's degree (2 majors) German Language and Literature (2024) Bachelor's degree (1 major, 1 minor) German Language and Literature (2024) Bachelor's degree (1 major) Music Education (2024) Bachelor's degree (2 majors) Music Education (2024) Bachelor's degree (1 major, 1 minor) Music Education (2024) First state examination for the teaching degree Grundschule Music Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2024) First state examination for the teaching degree Mittelschule Music Education in Middle School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2024) Bachelor's degree (1 major) Indology/South Asian Studies (2024) Bachelor's degree (2 majors) Indology/South Asian Studies (2024) Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2024) Bachelor's degree (1 major, 1 minor) Ancient World (2024) Bachelor's degree (2 majors) Digital Humanities (2024) Bachelor's degree (1 major, 1 minor) Digital Humanities (2024) Bachelor's degree (1 major) Midwifery (2024) Bachelor's degree (2 majors) Greek Philology (2024) minor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 24 / 76 reg. data record Bachelor (60 ECTS) Biologie - 2020

Bachelor's degree (2 majors) Latin Philology (2024) First state examination for the teaching degree Gymnasium Latin Philology (2024) Bachelor's degree (1 major) Business Information Systems (2024) Bachelor's degree (1 major) Economathematics (2024) Bachelor's degree (1 major) Business Management and Economics (2024) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024) First state examination for the teaching degree Gymnasium English (2024) First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Grundschule History (2024) First state examination for the teaching degree Gymnasium History (2024) First state examination for the teaching degree Realschule History (2024) First state examination for the teaching degree Mittelschule History (2024) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2024) First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2024) First state examination for the teaching degree Gymnasium Greek Philology (2024) Bachelor's degree (1 major) Human-Computer-Interaction (2024) First state examination for the teaching degree Grundschule Art Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2024) First state examination for the teaching degree Mittelschule Art Education in Middle School (2024) Bachelor's degree (2 majors) Art Education (2024) Bachelor's degree (1 major) Digital Business & Data Science (2024) Bachelor's degree (1 major) Classics (2024) Bachelor's degree (1 major) Diversity, Ethics and Religions (2024) Bachelor's degree (1 major) Functional Materials (2025) Bachelor's degree (1 major) (2025) Bachelor's degree (1 major) Food Chemistry (2025) Bachelor's degree (1 major, 1 minor) European Ethnology/Empiric Cultural Studies (2025) Bachelor's degree (1 major) Pedagogy (2025) Bachelor's degree (2 majors) Pedagogy (2025) Bachelor's degree (1 major) Economathematics (2025) Bachelor's degree (1 major) Academic Speech Therapy (2025) Bachelor's degree (1 major, 1 minor) Pedagogy (2025) Bachelor's degree (1 major) Games Engineering (2025)

Module title					Abbreviation		
Developmental Biology of Animals 07-3A3EBIOTI-152-mo1						n01	
Module coordinator				Module offered by			
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
4		rical grade		•			
Duratio		Module level	Other prerequisites				
1 seme		undergraduate			exercises. Regular at	tendance	
1 Senie	5101	undergraduate	(minimum 80%) and		tion of exercises (ap		
Conten	ts						
biology bians, i of sper organo	r. The fo nemato matozo genesia	ollowing topics will be odes, Drosophila, mou oa and ova), differentia	theoretical and practic covered: early embryon se) and relevance for th l gene expression, cell arcinogenesis, stem cel	ic development of va e systematics of ani growth and molecula	arious model organis mals, gametogenesi ar regulation of cell o	sms (amphi- s (production development,	
Intende	ed lear	ning outcomes					
model discipli don, ca	organis nary co incer ai	sms (pattern formation onnections between de nd stem cells as well a	mental biology. 2. Emb). 3. Molecular mechan evelopmental biology ar s gametes. 6. Interrelat opmental processes di	isms as well as contr nd other branches of ions between ontoge	rol of cell developme biology. 5. Cell biolo	ent. 4. Inter- ogy of cotyle-	
Course	S (type, r	number of weekly contact hour	rs, language — if other than Gei	rman)			
V (1) + l	Ü (3)						
		essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informati	on on whether	
written credita		nation (approx. 60 min bonus	utes)				
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
120 h							
Teachi		•					
reactin	is cyci						
Referred to in LPO I (examination regulations for teaching-degree programmes)							
§ 61 Nr. 5							
Module	e appea	urs in					
Bachelor's degree (1 major) Biology (2015)							
Bachelor's degree (1 major) Mathematics (2015)							
Bachelor's degree (1 major) Biomedicine (2015)							
Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)							
	Bachelor's degree (1 major) Biology (2017)						
		gree (1 major) Biology gree (1 major) Biomedi					
-		degree programme Biology		Irg • generated 19-Apr-2025 •	• exam.	page 26 / 76	
(2020)				ord Bachelor (60 ECTS) Biolog			

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Bachelor's degree (1 major) Biomedicine (2020) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title				Abbreviation		
Plant and Animal Ecology				07-3A30EK0-152-m	01	
Module coordinator			Module offered by			
Dean of Studies Biologie (Biology)				Faculty of Biology		
			Only after succ. con	·		
6	1	rical grade		•		
Duratio		Module level	Other prerequisites			
1 seme		undergraduate				
Conten		undergradate				
and bio as on t fundan re the f	otic env he stru nental r undam	ironments. The modul cture and dynamics of nodel concepts of ecol ental knowledge neces	th an overview of the ir e will focus on the func populations, communit ogy, will become famili ssary to develop an unc	tional adaptation to ties and ecosystems ar with examples of	environmental cond . Students will be int research findings ar	itions as well troduced to id will acqui-
Intende	ed lear	ning outcomes				
portant	t abioti nvironm	c and biotic factors tha nent. In addition, they i	nental principles of res t influence the distribu understand the scientif	tion and frequency o	of occurrence of orga	nisms in
Course	S (type, r	number of weekly contact hour	s, language — if other than Gei	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informati	ion on whether
written credita		nation (approx. 90 min bonus	utes)			
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
180 h						
Teachi		•				
reaction	is cyce					
Deferre	d to in			`		
		LFUI (examination regulation	ons for teaching-degree progra	mmes)		
§61 N		····- •				
Module appears in						
Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Geography (2015)						
Bachelor's degree (1 major) Computer Science (2015)						
Bachelor's degree (1 major) Mathematics (2015)						
Bachelor's degree (1 major) Computational Mathematics (2015)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)						
First state examination for the teaching degree Gymnasium Biology (2015)						
Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Computer Science (2017)						
Bachelor's degree (1 major) Computer Science (2017) Bachelor's degree (1 major) Computer Science (2019)						
minor in a l (2020)	Bachelor's	degree programme Biology		rg • generated 19-Apr-2025 • rd Bachelor (60 ECTS) Biolog		page 28 / 76

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Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Computer Science und Sustainability (2021) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) exchange program Biosciences (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Geography (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)



Compulsory Electives

(30 ECTS credits)

Module	e title				Abbreviation	
Mathematical Biology and Biostatistics					07-M-BST-152-m01	
Module coordinator				Module offered by	l	
holder of the Chair of Bioinformatics			Faculty of Biology			
ECTS	1	od of grading	Only after succ. con			
4		rical grade		. <u></u>		
Duratio		Module level	Other prerequisites			
		undergraduate				
Conten						
		principles of the most i		l and statistical met	hods in biology	
					nous in biology.	
		ning outcomes				c 1.
		have acquired fundame as well as the mathema			s, the interpretation of	of readings
		umber of weekly contact hours	·	<u> </u>		
V (2) +		umber of weekly contact nours	, tanguage — It other than Ger	many		
		sessment (type, scope, lang le for bonus)	uage — If other than German, o	examınatıon offered — if no	ot every semester, informati	on on whether
		nation (approx. 60 minu				
credita			ales)			
Allocat	ion of r	places				
			-			
Additio	nal inf	ormation				
Auuitio						
	-		_			
Worklo	ad					
120 h						
Teachi	ng cycl	9				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Biochem	istry (2015)			
		gree (1 major) Biology (:				
		gree (1 major) Compute				
		gree (1 major) Mathema	=	、 、		
		gree (1 major) Computa		015)		
		gree (1 major, 1 minor) gree (1 major) Biology (
Bachelor's degree (1 major) Biology (2017)						
Bachelor's degree (1 major) Biochemistry (2017) Bachelor's degree (1 major) Computer Science (2017)						
Bachelor's degree (1 major) Computer Science (2019)						
Bachelor's degree (1 major) Biology (2021)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)						
Bachelor's degree (1 major) Computer Science und Sustainability (2021)						
Bachelor's degree (1 major) Biochemistry (2022)						
Bachelor's degree (1 major) Biology (2022)						
					page 31 / 76	
(2020)			reg. data reco	rd Bachelor (60 ECTS) Biolog	gie - 2020	



Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title					Abbreviation		
Developmental Biology of Plants				07-3A3EBIOPF-152-	m01		
Module coordinator				Module offered by			
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology			
ECTS		od of grading	Only after succ. con	· · · · · ·			
		rical grade					
4 Duratio		Module level	Other prerequisites				
1 semester undergraduate		undergraduate	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.				
Conten	ts						
over a	plant's	e, students will acquire entire life cycle from ge gulation of different dev	ermination to reproduct	tion. The module wil	l discuss the molecu	lar determi-	
		ning outcomes		p	<u></u>		
ganism nisms u bryonic	is. 3. Do underly caxes.	al concepts in plant developmental biologica ing pattern formation, 6. Physiological aspect nental biological proces	l processes at specific morphogenesis and or s of the developmenta	stages in the life cyc ganogenesis in plan l processes in plants	cle of plants. 4. Mole ts. 5. Establishment s that were discussed	cular mecha- of plant em-	
Course	S (type, r	number of weekly contact hours	s, language — if other than Ger	rman)			
V (1) +	Ü (3)						
		sessment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	ot every semester, informat	ion on whether	
written credita		nation (approx. 60 min bonus	utes)				
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
120 h							
Teachi	ng cycl	۵					
		•					
Poforro	d to in	LPO I (examination regulation	and for too shing dogree progre	mmoc			
§ 61 N				inities)			
	_						
Module appears in							
Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015)							
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015)							
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)							
Bachelor's degree (1 major) Biology (2017)							
Bachelor's degree (1 major) Biology (2021)							
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)							
		gree (1 major, 1 minor)					
Bachelor's degree (1 major) Biology (2022)							
minor in a l	Bachelor's	degree programme Biology	IMU Würzbı	Irg • generated 19-Apr-2025 •	• exam.	page 33 / 76	
(2020)		5 , 5		rd Bachelor (60 ECTS) Biolog			



Bachelor's degree (1 major) Mathematics (2023)

Module	e title				Abbreviation	
Physio	logy of	Prokaryotes			07-2A2PHYPR-152-m01	
Module coordinator				Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
4		rical grade		• • • •		
Duratio		Module level	Other prerequisites			
1 semester undergraduate		Admission prerequi (minimum 80%) and	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.			
Conten	ts					
	olism. [During exercises, fundan			cell and the versatile bacterial vill be illustrated by help of suita-	
Intende	ed lear	ning outcomes				
		familiar with the fundam imental microbiology an		cterial physiology. T	hey are familiar with basic techni	
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
V (1) + I	Ü (2)					
		sessment (type, scope, langu	age — if other than German.	examination offered — if n	ot every semester, information on whether	
		le for bonus)				
		nation (approx. 60 minu	tes)			
credita	ble for	bonus	_			
Allocat	ion of _l	places				
Additio	nal inf	ormation				
The exe	ercises	take place all day as a b	lock event.			
Worklo	ad					
120 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ummes)		
§ 61 N						
Module		ars in				
	• •	gree (1 major) Biology (2	015)			
		gree (1 major, 1 minor) B	-			
Bachelor's degree (1 major) Biology (2017)						
		gree (1 major) Biology (2				
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)						
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Biology (2022)					
васпе	or s ae	gree (1 major) Biology (2	022)			

Module title					Abbreviation		
Plant Physiology					07-2A2PHYPF-152-n	n01	
Module coordinator				Module offered by	·		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology			
ECTS	1	od of grading	Only after succ. con	, ,			
		rical grade					
4 Duratio		Module level	Other prerequisites				
		-					
1 semester undergraduate		undergraduate	(minimum 80%) and		exercises. Regular at tion of exercises (ap n to assessment.		
Conten	lts						
opport the bio nal env genera	unity to chemis vironme l princi	develop the fundame stry of the cell and will ent of plants in particul	vith the principles of ge ntal skills for working ir then move on to discus ar. Using the example o module will also elabo ryotes.	n a biological laborat s the physiological p of plants, the module	tory. The module will processes that regula e will introduce stude	l first address ate the inter- ents to the	
Intend	ed lear	ning outcomes					
tors that skills o	at distin n how	nguish plant physiolog to perform, analyse an	al processes in plants a y from animal and prok d present scientific exp nental physiological pro	aryotic physiology eriments Essential	Fundamental knowl	edge and	
Course	S (type, r	number of weekly contact hour	rs, language — if other than Ger	man)			
V (1) +							
Metho	d of ass	Sessment (type, scope, lang le for bonus)	guage — if other than German, o	examination offered — if no	ot every semester, informati	ion on whether	
written credita		nation (approx. 60 min	utes)				
Allocat							
mocu							
• • • • • • •							
Additio	onal inf	ormation					
Worklo	ad						
120 h							
Teachi	ng cycl	е					
Referre	ed to in	LPO I (examination regulation	ions for teaching-degree progra	mmes)			
§61 N	lr. 2						
Module	e appea	ars in					
Bachelor's degree (1 major) Biology (2015)							
Bachelor's degree (1 major) Mathematics (2015)							
Bachelor's degree (1 major) Computational Mathematics (2015)							
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)							
Bachelor's degree (1 major) Biology (2017)							
Bachelor's degree (1 major) Biology (2021)							
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)						
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) ninor in a Bachelor's degree programme Biology JMU Würzburg • generated 19-Apr-2025 • exam. page 36 / 76						
(2020)	Dachelors	σοδιές μιοδιατημις σιοιοξλ		rd Bachelor (60 ECTS) Biolog		μαχε 30 / 70	



Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module	e title				Abbreviation	
Animal	Physic	ology			07-2A2PHYTI-152-m	101
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
4	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ster	undergraduate	Admission prerequis (minimum 80%) and 30 hours) are prerec	d successful comple	tion of exercises (ap	
Conten	ts					
provide module	e them e will fo	with an opportunity to	vith the principles of ge develop the fundament gy and sensory physiolo	al skills for working	in a physiological la	boratory. The
Intende	ed lear	ning outcomes				
			tanding of the physiolo on planning, setup, int			
Course	S (type, r	number of weekly contact hour	s, language — if other than Ger	man)		
V (1) +	Ü (2)					
		sessment (type, scope, lang le for bonus)	guage — if other than German, e	examination offered — if no	ot every semester, informat	ion on whether
written credita		nation (approx. 60 min bonus	utes)			
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
120 h						
Teaching cycle						
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	mmes)		
§ 41 N § 61 N						
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Biology ((2015)			
		gree (1 major) Mathem	-	,		
	Bachelor's degree (1 major) Computational Mathematics (2015)					
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)					
	Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biology (2021)					
		gree (1 major, 1 minor)				
		gree (1 major, 1 minor)				
		gree (1 major) Biology (
Bachel	or's de	gree (1 major) Mathem	atics (2023)			
minor in a l (2020)	Bachelor's	s degree programme Biology		rg • generated 19-Apr-2025 v rd Bachelor (60 ECTS) Biolog		page 38 / 76

Modul	Module title			Abbreviation	
Genes,	Genes, Molecules, Technologies				07-3A3GEMT-152-m01
Module coordinator N				Module offered by	
Dean of Studies Biologie (Biology)			Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duration Module level		Other prerequisites			
1 semester undergraduate					
Contents					

The module Gene, Moleküle, Technologien (Genes, Molecules, Technologies) will include lectures on the following topics: The section Spezielle Genetik (Special Genetics) will build on Einführung in die Genetik (Introduction to Genetics) and will deepen the students' knowledge of topics from the following areas: structure and evolution of the eukaryotic genome, regulatory RNA, epigenetically and evolutionarily significant genetic mechanisms. The section will also focus on methods of gene expression profiling, reverse genetics and modern methods of gene function and gene sequence analysis. In the lecture Einführung in die Bioinformatik (Introduction to Bioinformatics), students will acquire an overview of major areas in the field of bioinformatics: protein sequence and protein domain analysis, phylogeny and evolution of sequences, protein structure, RNA/DNA sequences and structures, cellular networks (regulation, metabolism) and systems biology. During the section Einführung in die Biotechnologie (Introduction to Biotechnology), students will acquire an overview of the following topics: history of biotechnology, DNA and RNA technologies, recombinant antibodies, molecular diagnostics, nanobiotechnology, biomaterials, bioprocess engineering, microbial biotechnology, transgenic animals and plants, microfluidics. The lecture Einführung in die Pharmakokinetik (Introduction to Pharmacokinetics) will provide students with an overview of the rational development of drugs and active agents. The module component will discuss an important aspect for biologists in more detail: the optimisation of the pharmacokinetics of small molecules and proteins. Pharmacokinetics describes the uptake, distribution, metabolism and elimination of a drug or xenobiotic in an organism.

Intended learning outcomes

Students possess an advanced knowledge on genome evolution and the regulation of gene expression and are familiar with current methods in genetics as well as methods for the analysis of DNA and protein databases. They have acquired an overview of both traditional and modern methods in biotechnology and are familiar with fundamental topics in biotechnology. Students have acquired an overview of the fundamental principles of the development and review of active agents in research, clinical practice and the pharmaceutical industry. They are familiar with methods and technologies in biology and are able to evaluate potential applications of these in research and industry.

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

V (4)

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

written examination (approx. 90 minutes) creditable for bonus

Allocation of places

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Additional information

Workload

180 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) Bachelor's degree (1 major) Computer Science (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Computer Science (2017) Bachelor's degree (1 major) Computer Science (2019) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022) exchange program Biosciences (2022) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023) Bachelor's degree (1 major) Mathematics (2023) Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)

Module title			Abbreviation			
Basic B	Biocher	nistry			07-3A3BC-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
4	1	rical grade		, , , , , , , , , , , , , , , , , , ,		
Duratio		Module level	Other prerequisites			
1 seme		undergraduate	Admission prerequi exercises (minimum	site to assessment: 1 80%) and successf 25 to 30 hours) are p	ul completion of the	respective
Conten	ts					
dents v will bed transla formed	vith de come fa tion) ai on sel	eper insights into the r amiliar with fundament nd the biochemistry of ected topics that were	noleküle (Macromolecu nolecular biology and b tal principles of molecu carbohydrates, lipids, j discussed in the lectur oresis, blot, enzyme kir	viochemistry of proka lar biology (replication proteins and nucleic e. The exercise will c	aryotes and eukaryot on, transcription, sp acids. Experiments over practical aspec	tes. Students licing and will be per-
Intende	ed lear	ning outcomes				
Studen	ts are f	familiar with the funda	mental principles of bio	ochemistry.		
Course	S (type, r	number of weekly contact hour	rs, language — if other than Ge	rman)		
V (1) +	Ü (2)					
module is	s creditab	sessment (type, scope, lang le for bonus) nation (approx. 60 min	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
credita						
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Worklo	ad					
120 h						
Teachi	ng cycl	e				
	0.7					
Referre	d to in	IPOI (ovamination regulat	ions for teaching-degree progra	ummoc)		
Referre				unines)		
Module	2000	arc in				
		gree (1 major) Biology	(2015)			
		gree (1 major) Mathem				
		• • • •	ational Mathematics (20	015)		
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)						
	Bachelor's degree (1 major) Biology (2017)					
	Bachelor's degree (1 major) Biology (2021)					
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)					
		• • • •	•,			
Dachel	oi s de	gree (1 major) Biology	(2022)			
minor in a l (2020)	Bachelor's	s degree programme Biology		urg • generated 19-Apr-2025 • ord Bachelor (60 ECTS) Biolog		page 41 / 76



Bachelor's degree (1 major) Mathematics (2023)

Module title				Abbreviation	
The Flora of Germany				07-4A4FLO-152-m01	
Module	e coord	inator		Module offered by	
holder gy	of the (Chair of Ecophysiology ar	nd Vegetation Ecolo-	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
7	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Modules 12-NW-EBWL and 12-NW-EVWL are not open for students of the following subjects: Wirtschaftswissenschaft (Business Management and Economics) Bachelor's (BSc with 180 ECTS credits), Wirtschaftsinforma- tik (Business Information Systems) Bachelor's (BSc with 180 ECTS cre- dits) and Wirtschaftsmathematik (Mathematics for Economics) Bache- lor's (BSc with 180 ECTS credits).		
Conten	ts				
The module will discuss the fundamental principles of the systematics and ecology of indigenous flowering plants. Students will acquire an overview of major indigenous plant families as well as their ecological and economic importance. Using a field guide, the course will demonstrate how dichotomous keys are used, and students will practise identifying freshly-gathered plants using dichotomous keys. Identifying plants, students will learn how to identify major morphological plant characteristics and will become familiar with the respective terminology. The module will also include field trips to typical habitats in the Botanical Garden and the vicinity of Würzburg. Students will become familiar with the common as well as scientific names of the plants found and will be introduced to the family- as well as species-specific characteristics of these plants. Students will practise using field guides and identification keys on site. Habitat ecological, geobotanical, climatic as well as conservation-relevant characteristics will also be discussed. The module will also include sessions at the Botanical Garden of the University of Würzburg with its outdoor facilities and greenhouses to help students acquire species identification skills.					
Intende	ed learı	ning outcomes			
floweri	ng plan				s and taxonomy of indigenous I know how to use Floras and set
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (1) + 1	Ü (2) +	E (2.5)			
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
1:1 Assess	written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes), weighted 1:1 Assessment offered: Once a year, summer semester creditable for bonus				
Allocat	ion of p	olaces			
180 places. Students applying after not having successfully completed assessment in the past two semesters will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will be main-tained and places re-allocated by lot as they become available. Places on all courses of the module with a re-stricted number of places will be allocated in the same procedure.					
Additio	nal inf	ormation			
Worklo	ad				
210 h					

Teaching cycle

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

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Module appears in

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

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

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

Bachelor's degree (1 major) Computational Mathematics (2015)

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)

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

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)

Module title			Abbreviation		
The Fauna of Germany				07-4A4FAU-152-m01	
Module	e coord	inator		Module offered by	
holder	of the (Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
7	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	(minimum 80%) and exercises (minimum	d completion of exer 80%) and successf	regular attendance of field trips cises. Regular attendance of ul completion of the respective rerequisite for admission to as-
Conten	ts				
They wi identify specific solidat and be	ill acqu /ing spo c habita e the ki haviou	ire a fundamental knowlecies, using specimens o ats or lifestyles. Exercises	edge of the systemat f animals. Selection s in a variety of habita	ics and taxonomy of of specimens will be ats will provide stude	to be found in Central Europe. these animals and will practise taxon-specific and will represent ents with an opportunity to con- pecimens including their ecology
		•			classify selected representatives
of the i Central of spec	ndigen Europe ies, stu	ous fauna (vertebrates, i ean habitats as well as th	nvertebrates) and use neir faunas and phene t the biology and eco	e identification keys. ology. On the basis o logy of these species	They are familiar with selected of the morphology and habitats as well as, where applicable, to
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (1) +	Ü (2) +	E (2.5)			
		essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
written	examiı	nation (approx. 45 minute	es) and practical ider	tification assignmer	nt (approx. 45 minutes), weighted
1:1 Accore	monto	ffered: Once a year, sum	morcomostor		
credita		•	iner semester		
Allocat	ion of p	olaces	,		
Allocation of places 180 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 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 Mathema- tik (Mathematics), each with 180 ECTS credits, as part of the application-oriented subject Biology (as well as po- tentially 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 component, several courses with a restricted number of places, there will be a uni- form regulation for the courses of one module component. In this case, places on all courses of a module com- ponent that are concerned will be allocated in the same procedure. In this procedure, applicants who already ha ve successfully completed at least one other module component of the respective module will be given preferential tial consideration. A waiting list will be maintained and places re-allocated as they become available.					

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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 during their studies or of all module components 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 their 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/module components 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.

Additional information

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Workload

210 h

Teaching cycle

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

Module appears in

Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 1 minor) Biology (2022) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title				Abbreviation	
Neurob	iology	1			07-4S1NVO1-152-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Neurobiology and	d Genetics	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
		and methods in molecula ehaviour and endogenou		ogenetic model syst	tem Drosophila and humans)
Intende	ed lear	ning outcomes			
		e acquired an advanced k nethods in neurobiology.	nowledge of the neu	robiology of a model	l organism and are able to apply
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (4) +	S (1)				
		s essment (type, scope, langua ile for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
 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). Students will be informed about the method and length of the assessment prior to the course. 					
Allocat	ion of _l	olaces			
Studen siderat ted to s nimum 60 ECTS tik (Mat tentiall the nur there b form re ponent ve succ tial con	the nut ts of th ion. Sh tudent of one S credi themat y to stunber of e, with gulatio that an essfull sidera	e Bachelor's degree subj ould the module be used as of the Bachelor's degree place in total) will be alloc ts and to students of the tics), each with 180 ECTS idents of other 'importing applications, the remain in one module componer on for the courses of one r re concerned will be alloc by completed at least one	ect Biologie (Biology) I in other subjects, the subject Biologie (B ocated to students of Bachelor's degree su credits, as part of the g' subjects). Should the ing places will be all nt, several courses wi module component. I tated in the same pro other module compo) with 180 ECTS cred ere will be two quota iology) with 180 ECT the Bachelor's degr bjects Computation application-oriente he number of places ocated to applicants th a restricted numb n this case, places o cedure. In this proce onent of the respective	es will be allocated as follows: its will be given preferential con- as: 95% of places will be alloca- S credits and 5% of places (a mi- ree subject Biologie (Biology) with al Mathematics and Mathema- ed subject Biology (as well as po- s available in one quota exceed a from the other quota. Should ber of places, there will be a uni- on all courses of a module com- edure, applicants who already ha- ve module will be given preferen- ble.
					the applicants' previous acade- number of ECTS credits they ha-

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 during their studies or of all module components 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/module components 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.

Additional information

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Workload

150 h

Teaching cycle

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

Module appears in

Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 2022) Bachelor's degree (1 major) Biology (2022) exchange program Biosciences (2022) Bachelor's degree (1 major) Mathematics (2023) Module title Abbreviation Integrative Behavioral Biology 1 07-4S1NVO2-152-m01 Module coordinator Module offered by holder of the Chair of Behavioral Physiology and Sociobio-Faculty of Biology logy ECTS Method of grading Only after succ. compl. of module(s) numerical grade Duration Module level Other prerequisites 1 semester undergraduate Contents Communication in the animal kingdom, neuroethology and behavioural development, perception and processing of olfactory signals, temporal organisation of behaviour, adaptive feeding behaviour, reproductive behaviour, social behaviour, orientation mechanisms. Intended learning outcomes Students have acquired an advanced knowledge in the area of behavioural biology and are able to deliver presentations on current studies on relevant topics. Courses (type, number of weekly contact hours, language - if other than German) V (2) + S (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) 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). Students will be informed about the method and length of the assessment prior to the course. creditable for bonus Allocation of places 20 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 component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in the same procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration. 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. 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 during their studies or of all module components in the subject of Biologie (Biology) (excluding Chemie (Chemistry), Physik (Physics), Mathematik (Mathematics))

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(2020)	reg. data record Bachelor (60 ECTS) Biologie - 2020	

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/module components 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.

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) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 2022) Bachelor's degree (1 major) Biology (2022) exchange program Biosciences (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title			Abbreviation		
Functional Morphology of Arthropods					07-4S1NVO3-152-m01
Module	coord	inator		Module offered by	
holder	of the C	Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Morpho	ology, a	natomy, phylogeny and e	ecology of arthropods	5.	
Intende	ed learn	ning outcomes			
		ble to explain arthropod ecosystems.	radiations in a functi	onal context as well	as to explain the importance of
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (1) + Ü	(5) ز				
		e essment (type, scope, langua ₎ le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
term pa credita		oprox. 5 to 10 pages) bonus			
Allocat	ion of p	olaces			
Studen siderati ted to s nimum 60 ECTS tik (Mat tentiall the num there b form re ponent ve succ tial con A waitin Selection mic ach ve achi in the s at the t average to their will be Among se by lo	the nu ts of th ion. Sh tudent of one S credit themat y to stu nber of e, withi gulatio that ar essfull siderat ng list v on proc nievem eved an ubject ime of e grade total n calcula applica	e Bachelor's degree subj ould the module be used s of the Bachelor's degre place in total) will be allo ts and to students of the ics), each with 180 ECTS dents of other 'importing applications, the remain in one module componer n for the courses of one r e concerned will be alloc y completed at least one tion. will be maintained and pl tess group 1 (95%): Place ents. For this purpose, ap nd their average grade of of Biologie (Biology) (exc application. This will be of weighted according to th umber of ECTS credits ac ted as the sum of these t ants with the same rankin	ect Biologie (Biology) in other subjects, the subject Biologie (B bocated to students of Bachelor's degree su credits, as part of the g' subjects). Should the ing places will be all of, several courses wi nodule component. I ated in the same pro- other module component aces re-allocated as the swill primarily be all oplicants will be rank all assessments take cluding Chemie (Chemi done as follows: First, ne number of ECTS cri- hieved (quantitative two rankings, and pla- ng, places will be allocated so and places will be allocated so and places will be allocated and places will be allocated	with 180 ECTS cred ere will be two quota iology) with 180 ECTS the Bachelor's degre bjects Computationa application-oriente ne number of places ocated to applicants th a restricted numb n this case, places of cedure. In this proce- onent of the respective they become available ocated according to the re- en during their studie nistry), Physik (Physis applicants will be ra- edits (qualitative ran ranking). The applica- ces will be allocated ocated according to the	es will be allocated as follows: its will be given preferential con- as: 95% of places will be alloca- S credits and 5% of places (a mi- ee subject Biologie (Biology) with al Mathematics and Mathema- d subject Biology (as well as po- available in one quota exceed from the other quota. Should ber of places, there will be a uni- on all courses of a module com- edure, applicants who already ha- ve module will be given preferen- ble. the applicants' previous acade- number of ECTS credits they ha- es or of all module components ics), Mathematik (Mathematics)) anked, firstly, according to their oliging and, secondly, according ants' position in a third ranking d according to this third ranking. the qualitative ranking or otherwi-
ces): to	tal nun	nber of ECTS credits alrea	ady achieved in modu	iles/module compor	nents of the Faculty of Biology; e 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.

Additional information

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

Bachelor's degree (1 major) Computational Mathematics (2015)

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)

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

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

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)

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

Module title			Abbreviation		
Basics	Basics in Light- and Electron-Microscopy07-4S1MZ1-152-m01				
Module	e coord	inator		Module offered by	
head o	f the De	epartment of Electronmic	croscopy	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Fundar	nental	principles of confocal las	ser scanning microsco	ppy and electron mic	roscopy.
Intend	ed lear	ning outcomes			
Studen	ts have	e acquired theoretical kn	owledge and practica	l skills in the area of	f light and electron microscopy.
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)	
V (1) +	Ü (5)				
		sessment (type, scope, langua le for bonus)	age — if other than German, o	examination offered — if no	ot every semester, information on whether
written credita		nation (approx. 30 to 60 bonus	minutes)		
Allocat	ion of p	olaces			
Studen siderat ted to s nimum 60 ECT tik (Ma	the nu ts of th ion. Sh student of one S credi themat	e Bachelor's degree sub ould the module be used s of the Bachelor's degre place in total) will be all ts and to students of the ics), each with 180 ECTS	ject Biologie (Biology d in other subjects, th ee subject Biologie (B ocated to students of Bachelor's degree su credits, as part of the) with 180 ECTS cred ere will be two quota iology) with 180 ECT the Bachelor's degr bjects Computation application-oriente	es will be allocated as follows: its will be given preferential con- as: 95% of places will be alloca- S credits and 5% of places (a mi- ree subject Biologie (Biology) with al Mathematics and Mathema- ed subject Biology (as well as po- s 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 component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in the same procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration.

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 during their studies or of all module components 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 the sthird 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/module components 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.

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 53 / 76
(2020)	reg. data record Bachelor (60 ECTS) Biologie - 2020	

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

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Workload

150 h

Teaching cycle

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

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Module appears in

Bachelor's degree (1 major) Biology (2015)
Bachelor's degree (1 major) Mathematics (2015)
Bachelor's degree (1 major) Nanostructure Technology (2015)
Bachelor's degree (1 major) Computational Mathematics (2015)
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)
Bachelor's degree (1 major) Biology (2017)
Bachelor's degree (1 major) Nanostructure Technology (2020)
Bachelor's degree (1 major) Biology (2021)
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)
Bachelor's degree (1 major) Quantum Technology (2021)
Bachelor's degree (1 major) Biology (2022)
exchange program Biosciences (2022)

minor in a Bachelor's degree programme Biology	
(2020)	

Module title				Abbreviation	
Analysis of Chromosomes					07-4S1MZ2-152-m01
Module	coord	inator		Module offered by	
head of	f the De	epartment of Electronmic	roscopy	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Overvie	w of th	e structure of chromosor	nes of somatic and m	neiotic cells.	
Intende	ed learı	ning outcomes			
Studen	ts are a	able to analyse chromoso	mal structures.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (1) + Ü	(5) ز				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 30 to 60 minutes) creditable for bonus					
Allocat	ion of p	olaces			
18 plac	es.				

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 component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in the same procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration.

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 during their studies or of all module components 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 the sthird 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/module components 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.

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 55 / 76
(2020)	reg. data record Bachelor (60 ECTS) Biologie - 2020	

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

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

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Module appears in

Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)

Module title			Abbreviation	
Special Bioin	formatics 1			07-4S1MZ6-152-m01
Module coor	dinator		Module offered by	
holder of the	Chair of Bioinformatics		Faculty of Biology	
ECTS Meth	od of grading	Only after succ. com	pl. of module(s)	
5 num	erical grade			
Duration	Module level	Other prerequisites		
1 semester	undergraduate			
Contents		-		
	nciples of evolutionary bio			ics (methods and markers), fun- structure prediction, phylogene-
Intended lea	rning outcomes			
Students are netic reconst		databases for sequer	nce analysis, RNA str	ructure prediction and phyloge-
Courses (type,	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (1) + Ü (5)				
Method of as module is credita		ge — if other than German, e	examination offered — if no	t every semester, information on whether
	10 to 20 pages) assessment: German or El ^r bonus	nglish		
Allocation of	places			
Allocation of places 20 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 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 Mathema- tik (Mathematics), each with 180 ECTS credits, as part of the application-oriented subject Biology (as well as po- tentially 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 component, several courses with a restricted number of places, there will be a uni- form regulation for the courses of one module component. In this case, places on all courses of a module com- ponent that are concerned will be allocated in the same procedure. In this procedure, applicants who already ha- ve successfully completed at least one other module component of the respective module will be given preferen- tial consideration. 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. For this purpose, applicants will be ranked according to the applicants' previous acade- mic achieved and their average grade of all assessments taken during their studies or of all module components in the subject of Biologie (Biology) (excluding Chemie (Chemistry), Physik (Physics), Mathematik (Mathematics)) at the time				

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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/module components 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.

Additional information

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Workload

150 h

Teaching cycle

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

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Module appears in

Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Nanostructure Technology (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Nanostructure Technology (2020) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Quantum Technology (2021) Bachelor's degree (1 major) Biology (2022) exchange program Biosciences (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title			Abbreviation		
Molecular modelling - From DNA to Protein			07-4S1PS1-152-m01		
Module	e coord	inator		Module offered by	
holder	of the (Chair of Plant Physiology	and Biophysics	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5		rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten					
	s as we	ell as on the search for ar			function of nucleic acids and molecules using databases and
Intende	ed lear	ning outcomes			
		e acquired a specialist kn rk with relevant database		ture-function relatior	nships of macromolecules and
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (1) +	Ü (5)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
compu [.] credita		practical examination (a bonus	pprox. 6 hours)		
Allocat	ion of p	olaces			
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 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 component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in the same procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preference.					
tial consideration. 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. For this purpose, applicants will be ranked according to the number of ECTS credits they ha- ve achieved and their average grade of all assessments taken during their studies or of all module components 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 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/module components of the Faculty of Biology;					

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 59 / 76
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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.

Additional information

Workload

150 h

Teaching cycle

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

Module appears in

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

Bachelor's degree (1 major) Computational Mathematics (2015)

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)

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

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

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)

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

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

Module title			Abbreviation		
Methods in Plant Ecophysiology				07-4S1PS2-152-m01	
Module	coord	inator		Module offered by	
holder	of the (Chair of Plant Physiology	and Biophysics	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Conten	ts				
		riments to introduce stuc perimental findings in a c			lant ecophysiology as well as dis-
Intende	ed learı	ning outcomes			
		ble to use current metho in a scientific context.	ds in plant ecophysio	ology as well as to de	ocument experimental findings
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (4) + 9	S (1)				
			ge — if other than German, e	examination offered — if no	t every semester, information on whether
		le for bonus)			
Log (ap credital	•	o to 20 pages) bonus			
Allocati	ion of p	olaces			
15 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 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 Mathema- tik (Mathematics), each with 180 ECTS credits, as part of the application-oriented subject Biology (as well as po- tentially 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 component, several courses with a restricted number of places, there will be a uni- form regulation for the courses of one module component. In this case, places on all courses of a module com- ponent that are concerned will be allocated in the same procedure. In this procedure, applicants who already ha- ve successfully completed at least one other module component of the respective module will be given preferen- tial consideration.					
Selection mic achi- ve achio in the s at the ti- average to their will be o	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. For this purpose, applicants will be ranked according to the number of ECTS credits they ha- ve achieved and their average grade of all assessments taken during their studies or of all module components 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 otherwi-				

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/module components of the Faculty of Biology; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25 %

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 61 / 76
(2020)	reg. data record Bachelor (60 ECTS) Biologie - 2020	

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.

Additional information

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Workload

150 h

Teaching cycle

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

Module appears in

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

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

Bachelor's degree (1 major) Computational Mathematics (2015)

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)

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

Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)

Module	title				Abbreviation
		al Drugs in Plants			07-4S1PS3-152-m01
Module	coord	inator		Module offered by	
		Chair of Pharmaceutical B	Biology	Faculty of Biology	
ECTS		od of grading	Only after succ. com		
5		rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
cals as	well as		harmacy. Microscopi	c and phytochemical	al plants and phytopharmaceuti- l analyses will be performed and ed.
Intende	ed learı	ning outcomes			
		e acquired a specialist kn s on the requirements and			l plants and phytopharmaceuti- eia.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (4) +	S (1)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
c) oral e d) oral e e) prese f) pract not exc	examin examin entatio ical exa eed a r ts will l	naximum of 4 hours). be informed about the mo	3 candidates (approx tes) or pprox. 2 hours; time to	. 20 minutes per can o complete will vary	according to subject area but will
Allocat	ion of p	olaces			
15 place Should Studen siderati ted to s nimum 60 ECTS tik (Mat tentialle the num there b form re ponent ve succ	es. the nu ts of th ion. Sh itudent of one S credit themat y to stu nber of e, with gulatio that ar essfull	mber of applications exc e Bachelor's degree subj ould the module be used s of the Bachelor's degre place in total) will be allo ts and to students of the ics), each with 180 ECTS idents of other 'importing applications, the remain in one module componer n for the courses of one r re concerned will be alloc y completed at least one	ect Biologie (Biology I in other subjects, th e subject Biologie (B ocated to students of Bachelor's degree su credits, as part of the g' subjects). Should th ing places will be all nt, several courses wi module component. I tated in the same pro) with 180 ECTS cred ere will be two quota iology) with 180 ECT the Bachelor's degr bjects Computation application-oriente he number of places ocated to applicants th a restricted numb n this case, places o cedure. In this proce	es will be allocated as follows: lits will be given preferential con- as: 95% of places will be alloca- 'S credits and 5% of places (a mi- ree subject Biologie (Biology) with al Mathematics and Mathema- ed subject Biology (as well as po- s available in one quota exceed a from the other quota. Should ber of places, there will be a uni- on all courses of a module com- edure, applicants who already ha- ve module will be given preferen-
A waitir Selectio mic ach ve achi	tial consideration. 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. For this purpose, applicants will be ranked according to the number of ECTS credits they ha- ve achieved and their average grade of all assessments taken during their studies or of all module components 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/module components 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.

Additional information

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Workload

150 h

Teaching cycle

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

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Module appears in

Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 1 minor) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title				Abbreviation		
Laborat	tory Pr	actical Course I			07-S1-LP1-152-m01	
Module	e coord	inator		Module offered by	л	
Coordir	nator B	ioCareers		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
		-			vice in educated	
	1 semester undergraduate Please consult with course advisory service in advance.					
Conten						
		coursed is offered by a titution.	an institution that is par	t of the University. C	ontents to be detern	nined by the
Intende	ed lear	ning outcomes				
Studen	ts have	e developed skills whic	ch qualify them to work	in their profession.		
		•	rs, language — if other than Ger	· · ·		
P (5)		t in: German and/or Er				
			guage — if other than German,	avamination offered if no	t over comester informati	ion on whathar
		le for bonus)	guage — II other than German,	examination onered — in no	n every semester, monnati	on on whether
a) writt	en exal	mination (approx. 45 to	 o 60 minutes) or			
		. 10 to 20 pages) or				
c) oral e	examin	ation of one candidate	e each (approx. 30 minu			
			o 3 candidates (approx	. 20 minutes per can	ididate) or	
		n (approx. 20 to 30 mi				
			approx. 2 hours; time t	o complete will vary	according to subject	i area but will
		maximum of 4 hours).	method and length of t	he accessment prior	to the course	
credita				ne assessment prior	to the course.	
Allocat						
Allocat		Jaces				
Additio	nalinf	ormation				
Auditio	ilat illi					
	-					
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulat	ions for teaching-degree progra	mmes)		
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Biology	(2015)			
Bachelor's degree (1 major) Mathematics (2015)						
Bachelor's degree (1 major) Computational Mathematics (2015)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)						
Bachelor's degree (1 major) Biology (2017)						
Bachelor's degree (1 major) Biology (2021)						
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)					
		gree (1 major, 1 minor)				
		gree (1 major) Biology				i
minor in a E (2020)	Bachelor's	s degree programme Biology		Irg • generated 19-Apr-2025 • Ird Bachelor (60 ECTS) Biolog		page 65 / 76



Bachelor's degree (1 major) Mathematics (2023)

Module title			Abbreviation			
Excursion I 07-S1-Ex1-152			07-S1-Ex1-152-m01			
Module coordinator Module offere			Module offered by	<u>.</u>		
Coordi	nator B	ioCareers		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5		rical grade		· · · · · · · · · · · · · · · · · · ·		
Duratio		Module level	Other prerequisites			
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts	U				
Conten	ts of th	e field trip to be deterr	nined by the respective	institution.		
		ning outcomes				
		•	h qualify them to work	in their profession.		
		·	s, language — if other than Ger	·		
E (2)	(())(())()(())()(())()(())(
	e taugh	t in: German and/or En	glish			
		essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		mination (approx. 45 to	60 minutes) or			
		. 10 to 20 pages) or				
			each (approx. 30 minu			
			o 3 candidates (approx	. 20 minutes per car	ididate) or	
		n (approx. 20 to 30 min amination (on average	approx. 2 hours; time t	o complete will varv	according to subject	t area but will
		naximum of 4 hours).				
Studen	ts 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	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	immes)		
Module appears in						
Bachelor's degree (1 major) Biology (2015)						
Bachelor's degree (1 major) Mathematics (2015)						
Bachelor's degree (1 major) Computational Mathematics (2015)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)						
Bachelor's degree (1 major) Biology (2017)						
	Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)					
		gree (1 major, 1 minor) gree (1 major, 1 minor)				
		gree (1 major, 1 mmor) gree (1 major) Biology (
			/			
minor in a l (2020)	Bachelor's	degree programme Biology		urg • generated 19-Apr-2025 • ord Bachelor (60 ECTS) Biolog		page 67 / 76



Bachelor's degree (1 major) Mathematics (2023)

Module	e title				Abbreviation
Interdisciplinary Project I				07-S1-IP1-152-m01	
Module coordinator				Module offered by	·
Coordin	nator B	oCareers		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Conten	ts of th	e project to be determine	ed by the competent o	coordinators; conter	nts will vary according to topic.
Intende	ed learr	ning outcomes			
Studen	ts have	developed skills which	qualify them to work i	in their profession.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
R (5) Module	e taugh	t in: German and/or Engli	ish		
		e ssment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
c) oral (d) oral e) pres f) pract not exc	examin examin entatio ical exa eed a r ts will l	naximum of 4 hours). De informed about the me	3 candidates (approx. tes) or prox. 2 hours; time to	20 minutes per can complete will vary	according to subject area but will
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	9			
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module appears in					
Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major, 2000)					



Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title				Abbreviation				
Excursion II					07-S2-EX2-152-m01			
Module coordinator				Module offered by				
Coordinator BioCareers				Faculty of Biology				
ECTS Method of grading		Only after succ. con	Only after succ. compl. of module(s)					
10								
Duration Module level Other prerequisites								
1 seme		undergraduate		Please consult with course advisory service in advance.				
	Contents							
		e field trip to be deter	nined by the respective	institution				
		ning outcomes		institution.				
		•	h qualify them to work	•				
	S (type, r	number of weekly contact hour	s, language — if other than Ger	rman)				
E (8) Module	e taugh	t in: German and/or Er	glish					
		Sessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	on on whether		
b) log (c) oral d d) oral e) pres f) pract not exc Studen Langua	approx examin examir entatio ical exa ical exa ical exa ical exa ical exa ical exa ical exa ical exa ical exa ical exa	nation in groups of up t n (approx. 20 to 30 mi amination (on average maximum of 4 hours). be informed about the ssessment: German ar	e each (approx. 30 minu o 3 candidates (approx nutes) or approx. 2 hours; time t method and length of t	. 20 minutes per can o complete will vary	according to subject	t area but will		
creditable for bonus Allocation of places								
Additio	nal inf	ormation						
Worklo	ad							
Workload								
300 h								
Teaching cycle								
Referre	d to in	LPOI (examination regulat	ons for teaching-degree progra	mmes)				
Module								
Bachelor's degree (1 major) Biology (2015)								
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015)								
Bachelor's degree (1 major) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)								
Bachelor's degree (1 major) Biology (2017)								
Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biology (2021)								
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)							
		gree (1 major, 1 minor)						
Bachelor's degree (1 major) Biology (2022)								
minor in a I (2020)	Bachelor's	degree programme Biology		ırg • generated 19-Apr-2025 • ırd Bachelor (60 ECTS) Biolog		page 71 / 76		



exchange program Biosciences (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title					Abbreviation			
Interdisciplinary Project II				07-S2-IP2-152-m01				
Module coordinator				Module offered by	л			
Coordinator BioCareers				Faculty of Biology				
		Only after succ. con	·					
10		rical grade						
Duratio		Module level						
				Other prerequisites				
1 semester undergraduate Please consult with course advisory service in advance.								
Conten								
			ined by the competent	coordinators; conter	nts will vary accordin	g to topic.		
Intende	ed leari	ning outcomes						
Studen	ts have	e developed skills which	ch qualify them to work	in their profession.				
Course	S (type, n	umber of weekly contact hou	rs, language — if other than Gei	man)				
R (8)								
• • •	e taugh	t in: German and/or Er	nglish					
		essment (type, scope, lan le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informati	on on whether		
		mination (approx. 45 to	 60 minutes) or					
		. 10 to 20 pages) or	5 00 minutes) of					
			e each (approx. 30 minu	ites) or				
			o 3 candidates (approx		ididate) or			
		n (approx. 20 to 30 mi						
			approx. 2 hours; time t	o complete will vary	according to subject	area but will		
		naximum of 4 hours).	معمدا مسط امسطا مقد	h				
			method and length of t	ne assessment prior	to the course.			
Language of assessment: German and/or English creditable for bonus								
Allocat								
Additio	nal inf	ormation						
Workload								
300 h								
Teachir	ng cycl	e						
Referre	d to in	IPOI (examination regulat	ions for teaching-degree progra	mmec)				
Module	annea	in in						
Module appears in Bachelor's degree (1 major) Biology (2015)								
Bachelor's degree (1 major) Mathematics (2015)								
Bachelor's degree (1 major) Mathematics (2015) Bachelor's degree (1 major) Computational Mathematics (2015)								
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)								
Bachelor's degree (1 major) Biology (2017)								
Bachelor's degree (1 major) Biology (2021)								
			Biology (Minor, 2020)					
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)							
Bachelor's degree (1 major) Biology (2022)								
		degree programme Biology		Irg • generated 19-Apr-2025 •	• exam.	page 73 / 76		
(2020)			reg. data reco	rd Bachelor (60 ECTS) Biolog	ie - 2020			



exchange program Biosciences (2022) Bachelor's degree (1 major) Mathematics (2023)

Module title					Abbreviation			
Laboratory Practical Course II				07-S2-LP2-152-m01				
Module coordinator				Module offered by	Aodule offered by			
Coordinator BioCareers			Faculty of Biology					
ECTS			Only after succ. con	Only after succ. compl. of module(s)				
10 numerical grade								
Duratio		Module level						
		undergraduate						
1 seme		undergraduate	Please consult with course advisory service in advance.					
Conter								
		coursed is offered by a titution.	n institution that is par	t of the University. C	ontents to be detern	nined by the		
Intend	ed lear	ning outcomes						
		amiliar with the structu profession.	ures of internal instituti	ons and have develo	oped skills which qu	alify them to		
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)				
P (8)								
	e taugh	t in: German and/or En	glish					
Metho	d of ass	sessment (type, scope, lang	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether		
module i	s creditab	le for bonus)						
 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). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German and/or English creditable for bonus 								
Allocation of places								
Additional information								
Workload								
300 h								
Teaching cycle								
Referred to in LPO I (examination regulations for teaching-degree programmes)								
Module appears in								
Bachelor's degree (1 major) Biology (2015)								
Bachelor's degree (1 major) Mathematics (2015)								
Bachelor's degree (1 major) Computational Mathematics (2015)								
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)								
Bachelor's degree (1 major) Biology (2017)								
1	Bachelor's degree (1 major) Biology (2021)							
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)								
minor in a (2020)	Bachelor's	degree programme Biology		ırg ● generated 19-Apr-2025 • ırd Bachelor (60 ECTS) Biolog		page 75 / 76		



Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)