

# Subdivided 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



# **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 haben ihr Wissen bezüglich wirtschaftlicher, gesellschaftlicher, naturwissenschaftlicher, kultureller etc. Fragestellungen erweitert und können in Ansätzen begründet Position beziehen.
- Die Absolventinnen und Absolventen entwickeln die Bereitschaft und Fähigkeit, ihre Kompetenzen in partizipative Prozesse einzubringen und aktiv an Entscheidungen mitzuwirken.



## 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.

# The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
Compulsory Courses (30 E	CTS credits)			
07-1A1ZPF-152-m01	The Plant Kingdom	5	NUM	8
07-1A1TI-152-m01	Evolution and the Animal Kingdom	5	NUM	6
07-2A2GENV-152-m01	Genetics, Neurobiology, Behaviour	5	NUM	10
07-SQF-RETH-211-m01	Legal and Ethical Aspects in Biological Sciences	5	NUM	59
07-3A3EBIOTI-152-m01	Developmental Biology of Animals	4	NUM	18
07-3A30EK0-152-m01	Plant and Animal Ecology	6	NUM	22
Compulsory Electives (30	ECTS credits)		•	
07-M-BST-152-m01	Mathematical Biology and Biostatistics	4	NUM	46
07-3A3EBIOPF-152-m01	Developmental Biology of Plants	4	NUM	17
07-2A2PHYPR-152-m01	Physiology of Prokaryotes	4	NUM	14
07-2A2PHYPF-152-m01	Plant Physiology	4	NUM	12
07-2A2PHYTI-152-m01	Animal Physiology	4	NUM	15
07-3A3GEMT-152-m01	Genes, Molecules, Technologies	6	NUM	20
07-3A3BC-152-m01	Basic Biochemistry	4	NUM	16
07-4A4FLO-152-m01	The Flora of Germany	7	NUM	26
07-4A4FAU-152-m01	The Fauna of Germany	7	NUM	24
07-4S1NVO1-152-m01	Neurobiology 1	5	NUM	34
07-4S1NVO2-152-m01	Integrative Behavioral Biology 1	5	NUM	36
07-4S1NVO3-152-m01	Functional Morphology of Arthropods	5	NUM	38
07-4S1MZ1-152-m01	Basics in Light- and Electron-Microscopy	5	NUM	28
07-4S1MZ2-152-m01	Analysis of Chromosomes	5	NUM	30
07-4S1MZ6-152-m01	Special Bioinformatics 1	5	NUM	32
07-4S1PS1-152-m01	Molecular modelling - From DNA to Protein	5	NUM	40
07-4S1PS2-152-m01	Methods in Plant Ecophysiology	5	NUM	42
07-4S1PS3-152-m01	Pharmaceutical Drugs in Plants	5	NUM	44
07-S1-LP1-152-m01	Laboratory Practical Course I	5	NUM	51
07-S1-Ex1-152-m01	Excursion I	5	NUM	48
07-S1-IP1-152-m01	Interdisciplinary Project I	5	NUM	49
07-S2-EX2-152-m01	Excursion II	10	NUM	53
07-S2-IP2-152-m01	Interdisciplinary Project II	10	NUM	55
07-S2-LP2-152-m01	Laboratory Practical Course II	10	NUM	57

Modul	Module title				Abbreviation
Evolution and the Animal Kingdom					07-1A1TI-152-m01
Module coordinator				Module offered by	
holder of the Professorship of Zoology at the Department of Faculty of Biology Electronmicroscopy					
ECTS	Meth	od of grading	Only after succ. con	mpl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Admission prerequisite to assessment: exercises. Regular attendance		
(minimum 80		(minimum 80%) and	imum 80%) and successful completion of exercises (approx. 25 to		
			30 hours) are prerec	quisites for admissio	n to assessment.
		1	· · · ·		

#### 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 can be chosen to earn a bonus)

written examination (approx. 60 minutes) creditable for bonus

#### **Allocation of places**

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Additional information

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Workload

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

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					Abbreviation	
The Pla	ant King	gdom			07-1A1ZPF-152-m01	
Modul	e coord	inator		Module offered by		
Dean c	of Studio	es Biologie (Biology)		Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Durati		Module level	Other prerequisites			
1 seme	ester	undergraduate			exercises. Regular at	
					ul completion of the	
				25 to 30 hours) are p	rerequisites for admi	ission to as-
<u> </u>			sessment.			
Conter	-					
At the dersta lutiona biologi cientis	level of nd the f ary and ical orga ts are o	groups in the plant kir orms and functions of ecological context. The anisation. Students wi ften required to posse	ts will be introduced to ngdom, students will ac plant organisms, with r contents of the modul ll also acquire and prac ss.	quire the fundamen norphology and cyto e are relevant for bio	tal knowledge neces ology being discusse ological disciplines a	sary to un- d in an evo- t all levels of
Intend	ed lear	ning outcomes				
6 • / • F • F • / • F • F	<ul> <li>Familiarity with the distinguishing characteristics and major representatives of fungi as well as groups in the plant kingdom.</li> <li>Ability to select those plant and fungal organisms that are most suitable for particular scientific issues.</li> <li>Familiarity with the components and functioning of microscopes.</li> <li>Fundamental skills in the interpretation of macroscopic and histologic preparations by light microscopy.</li> </ul>					
Course	<b>es</b> (type	, number of weekly cor	ntact hours, language –	- if other than Germa	in)	
	+ Ü (2.5					
			, language — if other the e can be chosen to earn		ition offered — if not	every seme-
writter	exami	nation (approx. 60 min	iutes)			
credita	ble for	bonus				
Alloca	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	oad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination re	gulations for teaching-	degree programmes)		
Modul	e appea	urs in				
		gree (1 major) Biology	(2015)			
		gree (1 major) Mathem				
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Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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

Modul	e title				Abbreviation	
Genet	ics, Neu	robiology, Behaviour			07-2A2GENV-152-m	01
						-
Modul	e coord	inator		Module offered by		
Dean	of Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Durati	on	Module level	Other prerequisites			
1 seme	ester	undergraduate	Admission prerequi	site to assessment:	exercises. Regular at	tendance
			(minimum 80%) and	l successful comple	tion of exercises (ap	prox. 25 to
			30 hours) are prerec	uisites for admissio	n to assessment.	
Conte	nts		•			
		principles of genetics	neurobiology and beha	vioural biology		
			neuropiology and pena	vioural biology.		
		ning outcomes				
			are molecular, cellular a			
		hal behaviour and will	be able to relate animal	behaviour to the m	olecular and formal l	bases of in-
herita		1 6 11			<b>`</b>	
	es (type	, number of weekly cor	tact hours, language –	if other than Germa	in)	
V (3)						
Metho	d of ass	<b>essment</b> (type, scope,	language — if other that	an German, examina	tion offered — if not	every seme-
ster, ir	nformati	on on whether module	can be chosen to earn	a bonus)		
		nation (approx. 60 to 9	o minutes)			
credita	able for	bonus				
Alloca	tion of <b>p</b>	olaces				
	_					
∆dditi	onal inf	ormation				
Adulti						
Workl	oad					
150 h						
Teach	ing cycl	e				
Referr	ed to in	LPO I (examination re	gulations for teaching-o	legree programmes)		
		ECTS credits)	<u></u>			
-	•	ECTS credits)				
-		ECTS credits)				
Modul	e appea	urs in				
		gree (1 major) Biology (	2015)			
		gree (1 major) Compute				
		gree (1 major) Mathem				
			ational Mathematics (20	015)		
Bache		gree (1 major, 1 minor)		5/		
Bache		gree (1 major) Biology (	(= • - / )			
Bache Bache	lor's de	gree (1 major) Biology ( gree (1 major) Compute				
Bache Bache Bache	lor's de lor's de		er Science (2017)			
Bache Bache Bache Bache	lor's de lor's de lor's de	gree (1 major) Compute	er Science (2017) er Science (2019)			
Bache Bache Bache Bache Modul	lor's de lor's de lor's de lor's de	gree (1 major) Compute gree (1 major) Compute	er Science (2017) er Science (2019) 2019)			
Bache Bache Bache Bache Modul Modul	lor's de lor's de lor's de lor's de e studie	gree (1 major) Compute gree (1 major) Compute es (Bachelor) Biology (2	er Science (2017) er Science (2019) 2019) ungsstudien (2020)			
Bache Bache Bache Bache Modul Bache	lor's de lor's de lor's de e studie e studie lor's de	gree (1 major) Compute gree (1 major) Compute es (Bachelor) Biology (2 es (Bachelor) Orientier	er Science (2017) er Science (2019) 2019) ungsstudien (2020) (2021)			
Bache Bache Bache Modul Modul Bache Bache	lor's de lor's de lor's de e studie e studie lor's de lor's de	gree (1 major) Compute gree (1 major) Compute es (Bachelor) Biology (2 es (Bachelor) Orientieru gree (1 major) Biology (	er Science (2017) er Science (2019) 2019) ungsstudien (2020) (2021) Biology (Minor, 2020)	rg • generated 19-Apr-2025 rd Bachelor (60 ECTS) Biolog		page 10 / 70

#### Julius-Maximilians-UNIVERSITÄT WÜRZBURG

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	
Plant I	Physiol	ogy			07-2A2PHYPF-152-n	101
Modul	e coord	inator		Module offered by	<u> </u>	
Dean o	of Studi	es Biologie (Biology)		Faculty of Biology		
ECTS		od of grading	Only after succ. con			
4		rical grade		•		
Durati	on	Module level	Other prerequisites	;		
1 seme	ester	undergraduate	Admission prerequi	site to assessment:	exercises. Regular at	tendance
				d successful comple		prox. 25 to
			30 hours) are preree	quisites for admissio	on to assessment.	
Conte	nts					
		vill acquaint students w				
		develop the fundamer				
		stry of the cell and will t ent of plants in particula				
		ples of physiology. The				
compa	rison w	ith animals and prokar	yotes.			
Intend	ed lear	ning outcomes				
		ith general physiologic				
		nguish plant physiology	•	, , , ,		•
		to perform, analyse and investigation of fundam			l lad skills Familiar	ity with me-
		, number of weekly con			un)	
V (1) +				in other than define	,	
		sessment (type, scope,	language — if other th	an German examina	tion offered — if not	avary sama
		ion on whether module			and oncice in not	every serife
writter	n exami	nation (approx. 60 min	utes)			
credita	able for	bonus				
Alloca	tion of <sub>l</sub>	places				
Additi	onal inf	ormation				
Workle	oad					
120 h						
Teachi	ing cycl	e				
Referr	ed to in	LPO I (examination reg	gulations for teaching-	degree programmes)		
§ 61	Nr. 2					
Modul	e appea	ars in				
Bache	lor's de	gree (1 major) Biology (	2015)			
	Bachelor's degree (1 major) Mathematics (2015)					
	Bachelor's degree (1 major) Computational Mathematics (2015)					
		gree (1 major, 1 minor)				
1		gree (1 major) Biology ( gree (1 major) Biology (				
		gree (1 major, 1 minor)				
		gree (1 major, 1 minor)				
·		s degree programme Biology		urg a generated to Apricase	e vam	page 12 / 70
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Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Mathematics (2023)

Module	e title				Abbreviation
Physio	logy of	Prokaryotes			07-2A2PHYPR-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Admission prerequis	site to assessment:	exercises. Regular attendance
					tion of exercises (approx. 25 to
			30 hours) are prerec	juisites for admissio	on to assessment.
Conten	ts				
The mo	dule p	rovides knowledge about	the structure and fur	nction of a bacterial	cell and the versatile bacterial
			ental principles of ba	cterial physiology w	ill be illustrated by help of suita-
ble exp	erimen	ts.			
Intende	ed leari	ning outcomes			
				cterial physiology. Th	ney are familiar with basic techni-
ques in	experi	mental microbiology and	able to apply them.		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)
V (1) +	Ü (2)				
Metho	d of ass	<b>essment</b> (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-
ster, in	formati	on on whether module ca	an be chosen to earn	a bonus)	
		nation (approx. 60 minut	es)		
credita	ble for	bonus			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
The exe	ercises	take place all day as a bl	ock event.		
Worklo	ad				
120 h					
Teachi	ng cycl	е			
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
§61 N	r. 3				
Module		irs in			
		gree (1 major) Biology (20	015)		
		gree (1 major, 1 minor) Bi			
		gree (1 major) Biology (20			
		gree (1 major) Biology (20			
		gree (1 major, 1 minor) Bi			
		gree (1 major, 1 minor) Bi			
Bachel	or's de	gree (1 major) Biology (20	)22)		

Module	e title				Abbreviation
Animal	Physic	ology			07-2A2PHYTI-152-m01
Module	coord	inator		Module offered by	
Dean of Studies Biologie (Biology)				· · ·	
			Only offer succ. con	Faculty of Biology	
ECTS		od of grading rical grade	Only after succ. con	npl. of module(s)	
4	I	r			
Duratio		Module level	Other prerequisites		avarciaas. Dagular attandance
1 seme	ster	undergraduate			exercises. Regular attendance
					tion of exercises (approx. 25 to
<u> </u>			30 hours) are prerec		
Conten					
					ive animal physiology and will
					; in a physiological laboratory. The ts of metabolic physiology (respi-
		retion).	by and sensory physiolo	by as well as aspec	is or metabolic physiology (idspi-
		ning outcomes			
			tanding of the physiolo	gical functions and	regulation of organisms. They ha
					sentation of scientific results.
			ntact hours, language –		
V (1) + I		,			
		essment (type scope	language — if other th	an German, examina	ation offered — if not every seme-
			e can be chosen to earn		ation offered in not every serie
written	exami	nation (approx. 60 mir	nutes)		
credita					
Allocat	ion of J	olaces			
Additio	nal inf	ormation			
Worklo	ad				
120 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination re	gulations for teaching-	degree programmes)	
§ 41   N	r. 2				
§61 N	r. 2				
Module	e appea	urs in			
Bachel	or's de	gree (1 major) Biology	(2015)		
		gree (1 major) Mathem			
			ational Mathematics (20	015)	
		gree (1 major, 1 minor)			
		gree (1 major) Biology			
		gree (1 major) Biology			
			Biology (Minor, 2020)		
			Biology (Minor, 2021)		
		gree (1 major) Biology			
pachel	ur s ae	gree (1 major) Mathem	aucs (2023)		

Module title				Abbreviation		
Basic Bioche	emistry		·	07-3A3BC-152-m01		
Module coor			Madula offered by			
			Module offered by			
	lies Biologie (Biology)		Faculty of Biology			
	<b>hod of grading</b> erical grade	Only after succ. con	npl. of module(s)			
4 num	Module level	Other prerequisites				
1 semester	undergraduate	Admission prerequi exercises (minimum	site to assessment: 1 80%) and successf 25 to 30 hours) are p	ul completion of the	respective	
Contents						
dents with d will become translation) formed on se (PCR, DNA an	dule component <i>Makrom</i> eeper insights into the m familiar with fundamenta and the biochemistry of o elected topics that were o nd protein gel electropho <b>ming outcomes</b>	olecular biology and b al principles of molecu carbohydrates, lipids, j discussed in the lectur	iochemistry of proka lar biology (replicati proteins and nucleic e. The exercise will c	aryotes and eukaryo on, transcription, sp acids. Experiments over practical aspec	tes. Students licing and will be per-	
			- l <sup>1</sup> - t			
-	familiar with the fundan	·	•	```		
	e, number of weekly con	tact hours, language –	- if other than Germa	in)		
V (1) + Ü (2)	ssessment (type, scope,	_				
			a bonus)			
Additional in	oformation					
Workload						
120 h						
Teaching cy	cle					
Referred to i	n LPO I (examination reg	gulations for teaching-o	degree programmes)			
Module app	ears in					
Bachelor's d	egree (1 major) Biology (:	2015)				
	egree (1 major) Mathema					
	Bachelor's degree (1 major) Computational Mathematics (2015)					
	egree (1 major, 1 minor) l					
	egree (1 major) Biology (: egree (1 major) Biology (:					
	egree (1 major, 1 minor) l					
	egree (1 major, 1 minor)					
	egree (1 major) Biology (					
	egree (1 major) Mathema					
minor in a Bachelo	r's degree programme Biology	JMU Würzbı	urg • generated 19-Apr-2025	• exam.	page 16 / 70	
(2020)		reg. data reco	ord Bachelor (60 ECTS) Biolog	ie - 2020		

Modu	le title				Abbreviation	
Devel	opmenta	al Biology of Plants			07-3A3EBIOPF-152-	m01
Modu	le coord	inator		Module offered by		
		es Biologie (Biology)		Faculty of Biology	<u>.</u>	
ECTS	-	od of grading	Only after succ. con	, ,		
4		rical grade				
Durati		Module level	Other prerequisites			
1 sem	-	undergraduate			exercises. Regular at	tendance
2 0 0					tion of exercises (ap	
			30 hours) are prered			
Conte	nts			,		
		students will acquire	an insight into the fun	damontal processos	of plant dovelopme	ntal biology
			ermination to reproduc			
	•	, .	velopmental biological			
Intend	led lear	ning outcomes		· · ·		
		-	velopmental biology. 2	Developmental bio	logy of selected plan	nt model or-
			al processes at specific			
nisms	underly	ing pattern formation,	morphogenesis and or	ganogenesis in plan	ts. 5. Establishment	of plant em-
			s of the developmenta			d. 7. Plastici-
		- •	sses: regulation by end	-		
Cours	<b>es</b> (type	, number of weekly cor	itact hours, language –	- if other than Germa	an)	
V (1) +	Ü (3)					
Metho	od of ass	<b>essment</b> (type, scope,	language — if other th	an German, examina	ation offered — if not	every seme-
ster, i	nformati	on on whether module	can be chosen to earn	a bonus)		
writte	n examiı	nation (approx. 60 min	utes)			
credit	able for	bonus				
Alloca	tion of p	olaces				
Additi	onal inf	ormation				
Workl	oad					
120 h						
-	ing aval	•				
Teach	ing cycl	e				
		<b>LPOI</b> (examination re	gulations for teaching-	degree programmes)		
§ 61 l	Nr. 5					
Modu	le appea	ars in				
Bache	lor's de	gree (1 major) Biology (	2015)			
		gree (1 major) Mathem				
			ational Mathematics (2	015)		
		gree (1 major, 1 minor)				
		gree (1 major) Biology (				
		gree (1 major) Biology (				
		gree (1 major, 1 minor)				
		gree (1 major, 1 minor) gree (1 major) Biology (				
		gree (1 major) Blology ( gree (1 major) Mathema				
		- · ·			• 0100	
	a pachelor's	degree programme Biology	JMU Wurzbi	urg • generated 19-Apr-2025	• exam.	page 17 / 70

Module	e title				Abbreviation	
Develo	pmenta	l Biology of Animals			07-3A3EBIOTI-152-mo	1
Madul	<u></u>	antor .		Modulo offered by		
Module coordinator			Module offered by			
	1	es Biologie (Biology)		Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
4	·	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	undergraduate	(minimum 80%) an		exercises. Regular attention of exercises (appro not o assessment.	
Conten	nts					
biology bians, of sper organo	y. The fo nemato matozo genesis	ollowing topics will be o des, Drosophila, mous a and ova), differential	covered: early embryor e) and relevance for th gene expression, cell	nic development of v ne systematics of ani growth and molecul	vledge on animal develo arious model organism mals, gametogenesis ( ar regulation of cell dev ng, metamorphosis (an	s (amphi- production velopment,
Intend	ed learı	ning outcomes				
don, ca 7. Phys <b>Course</b> V (1) + <b>Methoo</b>	ancer an siologic es (type Ü (3) d of ass	nd stem cells as well as al aspects of the develo number of weekly con	gametes. 6. Interrelat opmental processes di tact hours, language – language – if other th	ions between ontog scussed. - if other than Germa an German, examina	f biology. 5. Cell biology eny and evolution/envi nn) tion offered — if not ev	ronment.
	examin ble for	nation (approx. 60 mini bonus	utes)			
Allocat	tion of p	olaces				
Additic	onal inf	ormation				
Worklo						
120 h						
Teachi	ng cycl	9				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
§61 N	 ۱r. 5					
Module	e appea	rs in				
	Bachelor's degree (1 major) Biology (2015)					
		gree (1 major) Mathema	-			
		gree (1 major) Biomedio				
		gree (1 major) Computa		015)		
		gree (1 major, 1 minor)				
Bachel	or's de	gree (1 major) Biology (	2017)			
Bachel	or's de	gree (1 major) Biomedio	cine (2018)			
minorina	Bachelor's	degree programme Biology	IMII Würzh	urg • generated 19-Apr-2025	• exam	page 18 / 70
(2020)	Sucheitor 5	acorec programme biology		ord Bachelor (60 ECTS) Biolog		Page 10 / /0

#### Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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	e title				Abbreviation	
Genes,	Molec	ules, Technologies			07-3A3GEMT-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Methe	od of grading	Only after succ. con	Only after succ. compl. of module(s)		
6	nume	rical grade				
Duration Module level			Other prerequisites			
1 seme	ster	undergraduate				
Conten	its					
					ll include lectures on the followi-	

Genetik (Special Genetics) will build on Einführung in d 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 can be chosen to earn a bonus)

written examination (approx. 90 minutes) creditable for bonus

Allocation of places

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#### Additional information

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Workload

180 h

**Teaching cycle** 

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

#### 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)

Modul	e title			Abbreviation	
Plant a	and Animal Ecology			07-3A30EK0-152-m	101
Modul	e coordinator		Module offered by	<u> </u>	
			Faculty of Biology		
ECTS	Method of grading	Only after succ. con			
6	numerical grade				
Durati	on Module level	Other prerequisites			
1 seme					
Conter	its				
and bi as on t fundar	odule will provide students wi otic environments. The modul he structure and dynamics of nental model concepts of ecol fundamental knowledge neces	e will focus on the func populations, communi ogy, will become famil	tional adaptation to ties and ecosystems iar with examples of	environmental cond . Students will be int research findings ar	itions as well troduced to nd will acqui-
Intend	ed learning outcomes				
portan their e	nts are familiar with the fundant t abiotic and biotic factors tha nvironment. In addition, they ntal issues.	t influence the distribu	tion and frequency o	of occurrence of orga	nisms in
Course	<b>es</b> (type, number of weekly cor	itact hours, language –	- if other than Germa	ın)	
V (2) +	Ü (2)				
ster, in	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) written examination (approx. 90 minutes)				
credita	ble for bonus				
Alloca	tion of places				
 Additid	onal information				
Worklo	bad				
180 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
§ 61   N	Vr. 4				
Modul	e appears in				
	lor's degree (1 major) Biology (	-			
	lor's degree (1 major) Geograp				
	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) Computational Mathematics (2015) Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)				
	ate examination for the teaching		Biology (2015)		
	lor's degree (1 major) Biology (	,	<i></i>		
	lor's degree (1 major) Compute				
Bache	lor's degree (1 major) Compute	er Science (2019)			
Bache	lor's degree (1 major) Biology (	2021)			
minor in a (2020)	Bachelor's degree programme Biology		urg • generated 19-Apr-2025 • ord Bachelor (60 ECTS) Biolog		page 22 / 70

#### Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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)

Module	e title				Abbreviation
The Fa	una of (	Germany			07-4A4FAU-152-m01
Module	e coord	inator		Module offered by	
			gy and Tropical Biology	Faculty of Biology	
ECTS	i i	od of grading	Only after succ. con	, , ,	
7		rical grade		<u> </u>	
			Other prerequisites		
1 seme	ester	undergraduate	(minimum 80%) and exercises (minimum	d completion of exer 1 80%) and successf	regular attendance of field trips cises. Regular attendance of ul completion of the respective rerequisite for admission to as-
Conten	Its				
identify specific solidat and be	ying sp c habit e the k haviou	ecies, using specimer ats or lifestyles. Exerc	ns of animals. Selection ises in a variety of habit	of specimens will be ats will provide stud	these animals and will practise taxon-specific and will represent ents with an opportunity to con- pecimens including their ecology
			ation skills. They know h	ow to taxonomically	classify selected representatives
of spec predict	cies, stu wheth <b>s</b> (type	udents are able to pre er they function as in , number of weekly co		logy of these species ervation concern.	of the morphology and habitats s as well as, where applicable, to nn)
			· · · · · · · · · · · · · · · · · · ·		
ster, in	format	on on whether modu	le can be chosen to earn	a bonus)	tion offered — if not every seme-
1:1	ment o	ffered: Once a year, s	·	ntification assignmen	nt (approx. 45 minutes), weighted
Allocat	ion of <sub>l</sub>	olaces			
Studen siderat ted to s nimum 60 ECT tik (Ma tentiall the nur there b form re ponent ve succ tial cor	I the nut its of the ion. Should not student of one S credi themat by to stumber of the with egulation t that a cessful nsidera	e Bachelor's degree s ould the module be u s of the Bachelor's de place in total) will be ts and to students of ics), each with 180 EG idents of other 'impor applications, the ren in one module compo n for the courses of o re concerned will be a y completed at least tion.	subject Biologie (Biology ised in other subjects, the egree subject Biologie (B allocated to students of the Bachelor's degree su CTS credits, as part of the ting' subjects). Should the naining places will be all onent, several courses w ne module component.	) with 180 ECTS cred lere will be two quot iology) with 180 ECT the Bachelor's degr bjects Computation e application-oriente he number of places ocated to applicants ith a restricted numb n this case, places of cedure. In this proce onent of the respecti	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- available in one quota exceed s 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-

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 24 / 70
(2020)	reg. data record Bachelor (60 ECTS) Biologie - 2020	

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 is 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

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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, 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) Biology (2022)

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

Module	e title				Abbreviation
		ermany			07-4A4FLO-152-m01
Module	e coord	inator		Module offered by	1
holder gy	ofthe(	Chair of Ecophysiology ar	nd Vegetation Ecolo-	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
7		rical grade			
Duratio	on	Module level	Other prerequisites		
1 semester undergraduate		following subjects: Economics) Bachelo tik (Business Inform	Wirtschaftswissensc or's (BSc with 180 EC ation Systems) Bacl smathematik (Mathe	are not open for students of the chaft (Business Management and CTS credits), Wirtschaftsinforma- helor's (BSc with 180 ECTS cre- ematics for Economics) Bache-	
Conten	Its				
plants. nomic dents v learn h minolo Würzbu will be using f tion-rel den of identifi	Studer importa will pra- ow to i gy. The urg. Stu introdu ield gui levant of the Uni cation	nts will acquire an overvi ance. Using a field guide, ctise identifying freshly-g dentify major morpholog module will also include idents will become famili uced to the family- as wel ides and identification ke characteristics will also b versity of Würzburg with skills.	ew of major indigeno , the course will demo gathered plants using ical plant characterist e field trips to typical iar with the common a ll as species-specific eys on site. Habitat ec be discussed. The mod	us plant families as onstrate how dichoto dichotomous keys. tics and will become habitats in the Bota as well as scientific characteristics of the cological, geobotani dule will also include	logy of indigenous flowering well as their ecological and eco- omous keys are used, and stu- Identifying plants, students will e familiar with the respective ter- nical Garden and the vicinity of names of the plants found and ese plants. Students will practise cal, climatic as well as conserva- e sessions at the Botanical Gar- help students acquire species
Intend	ed lear	ning outcomes			
floweri	Students have acquired knowledge and skills related to the ecology, systematics and taxonomy of indigenous flowering plants. They are familiar with the terminology of plant morphology and know how to use Floras and set up scientific herbaria.				
Course	<b>s</b> (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
V (1) +	Ü (2) +	E (2.5)			
ster, in	formati	ion on whether module c	an be chosen to earn	a bonus)	ation offered — if not every seme-
1:1	ment o	ffered: Once a year, sum	·	tification assignme	nt (approx. 45 minutes), weighted
Allocat	ion of	olaces			
will be tained	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 maintained and places re-allocated by lot as they become available. Places on all courses of the module with a restricted number of places will be allocated in the same procedure.				
Additio	onal 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	e title				Abbreviation
Basics	in Ligh	t- and Electron-Microsco	ру		07-4S1MZ1-152-m01
Module	e coord	inator		Module offered by	
head o	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	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Fundar	nental	principles of confocal las	er scanning microsco	py and electron mic	roscopy.
Intend	ed learı	ning outcomes			
Studen	ts have	e acquired theoretical kno	owledge and practica	l skills in the area of	light and electron microscopy.
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
V (1) +	Ü (5)				
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
written credita		nation (approx. 30 to 60 i bonus	minutes)		
Allocat	ion of p	olaces			
Studen siderat ted to s nimum	the nu ts of th ion. Sh student of one	e Bachelor's degree subj ould the module be usec s of the Bachelor's degre place in total) will be allo	ect Biologie (Biology I in other subjects, th e subject Biologie (B ocated to students of	) with 180 ECTS credi ere will be two quota iology) with 180 ECT the Bachelor's degre	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-

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 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.

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 28 / 70
(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)

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	eiotic cells.	
Intende	ed leari	ning outcomes			
Studen	ts are a	able to analyse chromoso	omal structures.		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
V (1) + Ü	(5) ز				
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
written credita		nation (approx. 30 to 60 r bonus	minutes)		
Allocat	ion of p	olaces			
Should Studen siderat	Allocation of places 18 places. Should the number of applications exceed the number of available places, places will be allocated as follows: Students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits will be given preferential 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-				

ted 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 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.

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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) 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)

(2020)

Module title				Abbreviation		
Specia	al Bioinf	ormatics 1			07-4S1MZ6-152-mo	1
Module coordinator				Module offered by	<u> </u>	
holder of the Chair of Bioinformatics			Faculty of Biology			
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Durat	ion	Module level	Other prerequisites	;		
1 sem	ester	undergraduate				
Conte	nts					
Fundamental principles of the tree of life, fundamental principles of phylogenetics (methods and markers), fun- damental principles of evolutionary biology (concepts), sequence analysis, RNA structure prediction, phylogene- tic reconstruction.						
Intend	led lear	ning outcomes				
	nts are a reconstr	able to use software an uction.	d databases for seque	nce analysis, RNA st	ructure prediction ar	nd phyloge-
Cours	<b>es</b> (type	, number of weekly con	tact hours, language –	– if other than Germa	ın)	
V (1) +	· Ü (5)					
		sessment (type, scope, ion on whether module			tion offered — if not	every seme-
Langu		o to 20 pages) ssessment: German or bonus	English			
Alloca	tion of	olaces				
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 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. T						
		nber of ECTS credits all	JMU Würzb	urg • generated 19-Apr-2025 • ord Bachelor (60 ECTS) Biolog	• exam.	page 32 / 70

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)

#### 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, 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	e title				Abbreviation	
Neurobiology 1				07-4S1NVO1-152-m01		
Module coordinator				Module offered by		
holder of the Chair of Neurobiology and		(	Faculty of Biology			
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		undergraduate	<u> </u>			
Neurob	Neurobiology and methods in molecular neurobiology (neurogenetic model system Drosophila and humans) focus: sleep behaviour and endogenous clock.					
		ning outcomes				
Studen	nts have		nowledge of the neu	robiology of a mode	l organism and are able to apply	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
Ü (4) +	S (1)					
		<b>sessment</b> (type, scope, la on on whether module ca			ition offered — if not every seme-	
<ul> <li>b) log (approx. 10 to 20 pages) or</li> <li>c) oral examination of one candidate each (approx. 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>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).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> </ul>						
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-						
A waiti Selecti mic ach ve achi in the s at the t averag	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					

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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)

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

Module title				Abbreviation	
Integra	tive Be	ehavioral Biology 1			07-4S1NVO2-152-m01
Module coordinator				Module offered by	<u> </u>
holder	ofthe	Chair of Behavioral Physic	ology and Sociobio-	Faculty of Biology	
logy	·		I		
ECTS		od of grading	Only after succ. compl. of module(s)		
5		rical grade			
Duration		Module level	Other prerequisites	!S	
		undergraduate			
Conten	-				
sing of viour, s	olfacto social b	ory signals, temporal orga behaviour, orientation me	inisation of behaviou		oment, perception and proces- behaviour, reproductive beha-
Intende	ed lear	ning outcomes			
		e acquired an advanced k current studies on releva		a of behavioural biol	ogy and are able to deliver pre-
Course	<b>s</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
V (2) +	S (2)				
		<b>sessment</b> (type, scope, la ion on whether module ca			ation offered — if not every seme-
e) pres f) pract not exc Studen	<ul> <li>d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or</li> <li>e) presentation (approx. 20 to 30 minutes) or</li> <li>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).</li> <li>Students will be informed about the method and length of the assessment prior to the course.</li> <li>creditable for bonus</li> </ul>				
Allocat	ion of	places			
Studen siderat ted to s nimum 60 ECT tik (Ma tentiall the nur there b form re ponent ve succ tial cor	I the nuts of the ion. Should not be of one S credi themat y to stumber of the, with gulatic that a cessful hisidera	the Bachelor's degree subj bould the module be used ts of the Bachelor's degree place in total) will be alloc ts and to students of the tics), each with 180 ECTS udents of other 'importing f applications, the remain in one module component on for the courses of one of re concerned will be alloc ly completed at least one tion.	ject Biologie (Biology I in other subjects, the e subject Biologie (B ocated to students of Bachelor's degree su credits, as part of the g' subjects). Should t hing places will be all nt, several courses wi module component. I cated in the same pro other module compo	) with 180 ECTS cred ere will be two quot iology) with 180 ECT the Bachelor's degr bjects Computation e application-oriente he number of places ocated to applicants ith a restricted numb n this case, places of cedure. In this proce onent of the respecti	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 s 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- ive module will be given preferen-
Selecti mic ach ve achi in the s	on proo hievem ieved a subject	ents. For this purpose, ap nd their average grade of of Biologie (Biology) (exc	es will primarily be all oplicants will be rank all assessments tak cluding Chemie (Cher	ocated according to ed according to the en during their studi nistry), Physik (Phys	ble. the applicants' previous acade- number of ECTS credits they ha- es or of all module components ics), Mathematik (Mathematics)) ranked, firstly, according to their

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

Functio	lodule title				Abbreviation	
unctio	Functional Morphology of Arthropods			-	07-4S1NVO3-152-m01	
Nodul	e coord	inator		Module offered b	by l	
nolder	of the (	Chair of Animal Ecology a	and Tropical Biology	Faculty of Biolog	V	
ECTS	1	od of grading	Only after succ. con		, ,	
5	<u>.</u>	rical grade		1		
Duratio	I	Module level	Other prerequisites			
1 seme		undergraduate				
Conten	ts		J			
		anatomy, phylogeny and	ecology of arthropod	ς		
		ning outcomes		5.		
		-		:		
		ecosystems.	i radiations in a funct	ional context as w	ell as to explain the importance o	
		· · · ·	oct hours longuage	if other then Com	man)	
		, number of weekly conta	ict nours, language –	- II other than Geri	llall)	
V (1) +		·				
					nation offered — if not every seme	
-		on on whether module c	an be chosen to earn	a bonus)		
	aper (a <sub>l</sub> ble for	oprox. 5 to 10 pages)				
Allocat	ion of <sub>l</sub>	Dlaces				
Studer siderat ted to s	l the nu its of th ion. Sh student	e Bachelor's degree sub ould the module be used s of the Bachelor's degre	ject Biologie (Biology d in other subjects, th ee subject Biologie (B	) with 180 ECTS cr here will be two qu iology) with 180 E	aces will be allocated as follows: edits will be given preferential cor otas: 95% of places will be alloca CTS credits and 5% of places (a m	
Should Studer siderat ted to s nimum 60 ECT tik (Ma tentiall the nur there b form re ponent ve succ tial cor A waiti Selecti mic acl ve ach in the s at the t averag	I the nu its of the ion. She student of one S credi themat y to stu mber of e, with gulatio that an cessfull sidera ng list on proo hievem ieved a subject time of e grade	e Bachelor's degree subjould the module be used s of the Bachelor's degree place in total) will be all ts and to students of the ics), each with 180 ECTS idents of other 'importing applications, the remain in one module component for the courses of one re concerned will be alloc y completed at least one tion. will be maintained and places group 1 (95%): Place ents. For this purpose, ap nd their average grade of of Biologie (Biology) (exc application. This will be weighted according to the	ject Biologie (Biology d in other subjects, the e subject Biologie (B ocated to students of Bachelor's degree su credits, as part of the g' subjects). Should t ning places will be all nt, several courses w module component. In cated in the same pro- e other module compo- laces re-allocated as es will primarily be all pplicants will be rank f all assessments tak cluding Chemie (Cher done as follows: First he number of ECTS cr	) with 180 ECTS or here will be two qu iology) with 180 E the Bachelor's de bjects Computationer he number of place ocated to application ith a restricted num in this case, place ocedure. In this pro- onent of the respentive they become avail located according the during their stu- mistry), Physik (Ph applicants will bredits (qualitative	edits will be given preferential cor otas: 95% of places will be alloca CTS credits and 5% of places (a m egree subject Biologie (Biology) wi onal Mathematics and Mathema- nted subject Biology (as well as po res available in one quota exceed nts from the other quota. Should mber of places, there will be a uni- s on all courses of a module com- ocedure, applicants who already h ctive module will be given prefere	

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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) 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					Abbreviation	
Molecu	Molecular modelling - From DNA to Protein				07-4S1PS1-152-m01	
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Plant Physio	logy and Biophysics	Faculty of Biology		
ECTS	-	od of grading	Only after succ. co	· · · · ·		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisite	25		
1 seme	ester	undergraduate				
Conten	nts					
protein		ell as on the search f			l function of nucleic acids and molecules using databases and	
Intend	ed lear	ning outcomes				
			st knowledge of the stru abases and software.	cture-function relatio	nships of macromolecules and	
Course	<b>s</b> (type	, number of weekly c	contact hours, language	— if other than Germa	an)	
V (1) +	Ü (5)					
			be, language — if other t ule can be chosen to ear		ation offered — if not every seme	
	terised ble for	practical examinatic bonus	on (approx. 6 hours)			
Allocat	tion of	olaces				
siderat ted to s nimum 60 ECT tik (Ma tentiall the nur there b form re ponent ve succ tial cor A waiti Selecti mic ach in the s at the t	tion. Sh student of one S credi themat ly to stu mber of be, with egulatic t that a cessful nsidera ng list on proo hievem ieved a subject time of	ould the module be so of the Bachelor's d place in total) will b ts and to students of tics), each with 180 E idents of other 'impo applications, the re in one module comp on for the courses of the concerned will be ty completed at least tion. will be maintained ar cess group 1 (95%): F ents. For this purpos nd their average grad of Biologie (Biology) application. This will	used in other subjects, legree subject Biologie ( e allocated to students f the Bachelor's degree s ECTS credits, as part of t brting' subjects). Should maining places will be a bonent, several courses one module component allocated in the same p t one other module comp and places re-allocated a Places will primarily be a se, applicants will be rar de of all assessments ta ) (excluding Chemie (Che l be done as follows: First	there will be two quot (Biology) with 180 ECT of the Bachelor's deg subjects Computation he application-oriente the number of places allocated to applicants with a restricted numb . In this case, places of rocedure. In this proce ponent of the respect s they become availab allocated according to the during their studi emistry), Physik (Physist, applicants will be	o the applicants' previous acade- number of ECTS credits they ha- ies or of all module components sics), Mathematik (Mathematics)) ranked, firstly, according to their	
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.						

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 40 / 70
(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**

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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) 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	e title				Abbreviation
Metho	ds in Pl	ant Ecophysiology			07-4S1PS2-152-m01
Module	e coord	inator		Module offered by	1
		Chair of Plant Physiolo	ogy and Rionhysics	Faculty of Biology	<u>.</u>
ECTS	1	od of grading	Only after succ. co	1 / -/	
5	+	rical grade			
Duratio	I	Module level	Other prerequisite	s	
1 seme		undergraduate		•	
Conten	nts				
Comple	ex expe		students to the current a comprehensive scier		lant ecophysiology as well as dis
		ning outcomes	<u></u> . p		
Studen and pu	nts are a It these	able to use current me in a scientific context	t		locument experimental findings
Course	<b>s</b> (type	, number of weekly co	ontact hours, language	— if other than Germa	an)
Ü (4) +	S (1)				
			e, language — if other th e can be chosen to ear		ation offered — if not every seme
	prox. 1 ble for	o to 20 pages) bonus			
Allocat	tion of <sub>l</sub>	olaces			
nimum 60 ECT tik (Ma tentiall the nur there b form re ponent ve succ tial cor A waiti Selecti mic ach in the s at the t averag to thein will be Among	of one S credi themat ly to stu- mber of be, with egulatio t that an cessfull nsidera ng list v on proc hievem ieved a subject time of e grade r total n calcula g applic	place in total) will be ts and to students of t ics), each with 180 EC idents of other 'impor applications, the rem in one module compo n for the courses of o re concerned will be a y completed at least o tion. will be maintained and cess group 1 (95%): Pl ents. For this purpose nd their average grade of Biologie (Biology) ( application. This will be weighted according t umber of ECTS credits ited as the sum of the	allocated to students of the Bachelor's degree s CTS credits, as part of the ting' subjects). Should naining places will be a onent, several courses will not be as the same properties of the same properties access will primarily be a set applicants will be ran the of all assessments tak (excluding Chemie (Chec be done as follows: First to the number of ECTS of sachieved (quantitative set two rankings, and p	of the Bachelor's degr ubjects Computation ne application-oriente the number of places llocated to applicants with a restricted number of this case, places of ocedure. In this proce- bonent of the respection to the the second according to ked according to the ken during their studies emistry), Physik (Physis t, applicants will be re- credits (qualitative rate e ranking). The applic laces will be allocated	TS credits and 5% of places (a mi ree subject Biologie (Biology) wit al Mathematics and Mathema- ed subject Biology (as well as po- s available in one quota exceed s 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- ive module will be given preferer ble. the applicants' previous acade- number of ECTS credits they ha- ies or of all module components sics), Mathematik (Mathematics)) ranked, firstly, according to their nking) and, secondly, according cants' position in a third ranking d according to this third ranking.
ces): to	on proc otal nur	nber of ECTS credits a	lready achieved in mod	lules/module compo	ring quotas: Quota 1 (50 % of pla nents of the Faculty of Biology; pe allocated by lot. Quota 2 (25 %

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 42 / 70
(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**

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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, 1 minor) Biology (Minor, 2020)

Module title				Abbreviation	
Pharm	Pharmaceutical Drugs in Plants 07-4S1PS3-152-m01				
Modul	e coord	linator		Module offered by	
holder	ofthe	Chair of Pharmaceutical E	Biology	Faculty of Biology	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conte	nts				
cals as	s well a		harmacy. Microscopi	c and phytochemical	al plants and phytopharmaceuti- l analyses will be performed and ed.
Intend	ed lear	ning outcomes			
		e acquired a specialist kn s on the requirements and		-	l plants and phytopharmaceuti- eia.
Course	<b>es</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)
Ü (4) +	- S (1)				
		<b>sessment</b> (type, scope, la ion on whether module ca			tion offered — if not every seme-
not ex Studer credita	ceed a nts will able for	maximum of 4 hours). be informed about the m bonus			according to subject area but will to the course.
Allocation of places 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.					
A waiti Select mic ac ve ach in the at the	ing list ion pro hievem ieved a subject time of	will be maintained and pl cess group 1 (95%): Place ents. For this purpose, ap nd their average grade of of Biologie (Biology) (exc application. This will be o	es will primarily be all oplicants will be rank all assessments tak cluding Chemie (Cher done as follows: First	ocated according to ed according to the en during their studi nistry), Physik (Phys , applicants will be r	ble. the applicants' previous acade- number of ECTS credits they ha- es or of all module components ics), Mathematik (Mathematics)) ranked, firstly, according to their nking) and, secondly, according

minor in a Bachelor's degree programme Biology	JMU Würzburg • generated 19-Apr-2025 • exam.	page 44 / 70
(2020)	reg. data record Bachelor (60 ECTS) Biologie - 2020	page 44 / / e

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)

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

Module	e title			Abbreviation		
Mathe	matical Biology and Biostatisti	cs		07-M-BST-152-m01		
Modul	e coordinator		Module offered by			
	of the Chair of Bioinformatics					
ECTS	Method of grading	Only after succ. com	Faculty of Biology			
4	numerical grade					
4 Duratio		Other prerequisites				
1 seme						
Conten						
	mental principles of the most in	nportant mathematica	l and statistical met	hods in biology.		
	ed learning outcomes					
	nts will have acquired fundame			, the interpretation of readings		
	mbers as well as the mathematic		· ·			
Course	es (type, number of weekly cont	act hours, language —	if other than Germa	n)		
V (2) +	Ü (2)					
				tion offered — if not every seme-		
ster, in	formation on whether module of	can be chosen to earn	a bonus)			
	examination (approx. 60 minu	tes)				
credita	ble for bonus					
Allocat	tion of places					
Additio	onal information					
Worklo	ad					
120 h						
		_				
leachi	ng cycle	-				
Referre	ed to in LPO I (examination reg	ulations for teaching-o	legree programmes)			
Modul	e appears in					
Bachel	lor's degree (1 major) Biochemis	stry (2015)				
Bachel	lor's degree (1 major) Biology (2	.015)				
Bachel	lor's degree (1 major) Computer	Science (2015)				
Bachelor's degree (1 major) Mathematics (2015)						
	Bachelor's degree (1 major) Computational Mathematics (2015)					
Bachel			015)			
Bachel Bachel	lor's degree (1 major, 1 minor) B	iology (Minor, 2015)	015)			
Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2	iology (Minor, 2015) 017)	)15)			
Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis	iology (Minor, 2015) 1017) stry (2017)	)15)			
Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer	iology (Minor, 2015) 017) stry (2017) Science (2017)	915)			
Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019)	915)			
Bachel Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer lor's degree (1 major) Biology (2	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019) 021)	)15)			
Bachel Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019) 021) iology (Minor, 2020)	915)			
Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer lor's degree (1 major) Biology (2 lor's degree (1 major, 1 minor) B	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019) 021) iology (Minor, 2020) iology (Minor, 2021)				
Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer lor's degree (1 major) Biology (2 lor's degree (1 major, 1 minor) B lor's degree (1 major, 1 minor) B	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019) 021) iology (Minor, 2020) iology (Minor, 2021) Science und Sustaina				
Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer lor's degree (1 major) Biology (2 lor's degree (1 major, 1 minor) B lor's degree (1 major, 1 minor) B lor's degree (1 major) Computer lor's degree (1 major) Biochemis lor's degree (1 major) Biochemis	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019) 021) iology (Minor, 2020) iology (Minor, 2021) Science und Sustaina stry (2022) 022)	ıbility (2021)			
Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel Bachel	lor's degree (1 major, 1 minor) B lor's degree (1 major) Biology (2 lor's degree (1 major) Biochemis lor's degree (1 major) Computer lor's degree (1 major) Computer lor's degree (1 major) Biology (2 lor's degree (1 major, 1 minor) B lor's degree (1 major, 1 minor) B lor's degree (1 major) Computer lor's degree (1 major) Biochemis	iology (Minor, 2015) 017) stry (2017) Science (2017) Science (2019) 021) iology (Minor, 2020) iology (Minor, 2021) Science und Sustaina stry (2022) 022)	ıbility (2021)			



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				
Excurs	ion I		_	07-S1-Ex1-152-m01		
Madul	e coordinator		Modulo offered by			
			Module offered by			
-	nator BioCareers		Faculty of Biology			
ECTS	Method of grading	Only after succ. cor	npl. of module(s)			
5	numerical grade					
Durati		Other prerequisites		• • •		
1 seme		Please consult with	course advisory ser	vice in advance.		
Conter	Contents					
Conter	nts of the field trip to be deter	mined by the respective	e institution.			
Intend	ed learning outcomes					
Studer	nts have developed skills whic	ch qualify them to work	in their profession.			
Course	es (type, number of weekly co	ntact hours, language –	- if other than Germa	an)		
E (2)				·		
	e taught in: German and/or Er	nglish				
Metho	d of assessment (type, scope	language — if other th	an German, examina	ation offered — if not	every seme-	
	formation on whether module				,	
a) writ	ten examination (approx. 45 to	o 60 minutes) or				
b) log	(approx. 10 to 20 pages) or					
	examination of one candidate					
	examination in groups of up to		. 20 minutes per car	ididate) or		
	sentation (approx. 20 to 30 mi tical examination (on average		o complete will vary	according to subject	t area but will	
	ceed a maximum of 4 hours).					
	nts will be informed about the	method and length of t	he assessment prior	r to the course.		
credita	able for bonus					
Alloca	tion of places					
Additi	onal information					
	,					
Worklo	ad					
150 h						
Teachi	ng cycle					
Referr	ed to in LPO I (examination re	gulations for teaching-	degree programmes)			
Modul	e appears in					
Bache	lor's degree (1 major) Biology	(2015)				
Bache	lor's degree (1 major) Mathem	atics (2015)				
Bache	Bachelor's degree (1 major) Computational Mathematics (2015)					
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)						
	lor's degree (1 major) Biology					
	lor's degree (1 major) Biology					
	lor's degree (1 major, 1 minor)					
	lor's degree (1 major, 1 minor) lor's degree (1 major) Biology					
	lor's degree (1 major) Biology lor's degree (1 major) Mathem					
Dacine	ior 5 degree (1 major) Matrielli	ancs (2023)				
	Bachelor's degree programme Biology		urg • generated 19-Apr-2025		page 48 / 70	
(2020)		reg. data reco	ord Bachelor (6o ECTS) Bioloខ្	sie - 2020		

Modul	e title	Abbreviation				
Interd	isciplinary Project I			07-S1-IP1-152-m01		
Modul	e coordinator		Module offered by	<u> </u>		
	nator BioCareers		Faculty of Biology			
ECTS	Method of grading	Only after succ. cor				
5	numerical grade					
Durati	· · · · · · · · · · · · · · · · · · ·	Other prerequisites				
1 seme			course advisory serv	/ice in advance.		
Conter						
Conter	Contents of the project to be determined by the competent coordinators; contents will vary according to topic.					
	ed learning outcomes	<u></u>			3 10 100.00	
	nts have developed skills which		in their profession			
	es (type, number of weekly co	· _ ·	·	un)		
	s (type, number of weekly con	illact ilouis, language -	- II Other than Germa	iii <i>)</i>		
R (5) Modul	e taught in: German and/or Er	nglish				
	d of assessment (type, scope	<u> </u>	an German, examina	tion offered — if not	every seme-	
	formation on whether module				every serie	
a) writ	ten examination (approx. 45 to	o 60 minutes) or				
b) log	(approx. 10 to 20 pages) or					
	examination of one candidate					
	examination in groups of up t sentation (approx. 20 to 30 mi		a. 20 minutes per car	ididate) or		
	tical examination (on average		o complete will varv	according to subject	t area but will	
	ceed a maximum of 4 hours).	approva =				
	nts will be informed about the	method and length of	he assessment prior	to the course.		
credita	able for bonus					
Alloca	tion of places					
Additi	onal information					
Workle	bad					
150 h						
	ng cycle					
Referr	ed to in LPO I (examination re		degree programmes)			
Keren						
Modul	e appears in					
	lor's degree (1 major) Biology	(2015)				
	lor's degree (1 major) Mathem					
	lor's degree (1 major) Comput		015)			
	lor's degree (1 major, 1 minor)		(1)			
	lor's degree (1 major) Biology					
	Bachelor's degree (1 major) Biology (2021)					
Bache	lor's degree (1 major, 1 minor)	Biology (Minor, 2020)				
	lor's degree (1 major, 1 minor)					
	lor's degree (1 major) Comput		ability (2021)			
Bache	lor's degree (1 major) Biology	(2022)				
minor in a	Bachelor's degree programme Biology	JMU Würzb	urg • generated 19-Apr-2025	• exam.	page 49 / 70	
(2020)		reg. data reco	ord Bachelor (60 ECTS) Biolog	ie - 2020		



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

(2020)

Modul	e title	Abbreviation				
Labora	atory Practical Course I			07-S1-LP1-152-m01		
Modul	e coordinator		Module offered by	d by		
Coordi	nator BioCareers		Faculty of Biology			
ECTS	Method of grading	Only after succ. cor	· · · · · · · · · · · · · · · · · · ·			
5	numerical grade		•			
Durati	on Module level	Other prerequisites	;			
1 seme	ester undergraduate	Please consult with	course advisory serv	vice in advance.		
Conte	nts					
	This practical coursed is offered by an institution that is part of the University. Contents to be determined by the respective institution.					
	ed learning outcomes					
	nts have developed skills which		in their profession			
	es (type, number of weekly co			n)		
	s (type, number of weekty col	illact ilouis, language -		411 <i>)</i>		
P (5) Modul	e taught in: German and/or Er	nglish				
	<b>d of assessment</b> (type, scope nformation on whether module			ition offered — if not	every seme-	
	ten examination (approx. 45 to					
	(approx. 10 to 20 pages) or	5 00 minutes) of				
	examination of one candidate	e each (approx. 30 mini	utes) or			
	examination in groups of up		. 20 minutes per car	ndidate) or		
	sentation (approx. 20 to 30 mi		a complete will van	according to subject	t area but will	
	tical examination (on average ceed a maximum of 4 hours).	approx. 2 nours; time i	o complete will vary	according to subject	t alea but will	
	nts will be informed about the	method and length of	he assessment prior	r to the course.		
credita	able for bonus		-			
Alloca	tion of places					
Additi	onal information					
Workle	bad					
150 h						
Teachi	ing cycle					
Referr	ed to in LPO I (examination re	gulations for teaching-	degree programmes)			
		<u></u>				
Modul	e appears in					
Bache	lor's degree (1 major) Biology	(2015)				
Bache	lor's degree (1 major) Mathem	atics (2015)				
	Bachelor's degree (1 major) Computational Mathematics (2015)					
	lor's degree (1 major, 1 minor)					
	lor's degree (1 major) Biology					
	lor's degree (1 major) Biology					
	lor's degree (1 major, 1 minor) lor's degree (1 major, 1 minor)					
	lor's degree (1 major, 1 minor) lor's degree (1 major) Biology					
IDacile	ion 5 degree (1 major) biology	(2022)				
minor in a (2020)	Bachelor's degree programme Biology		urg • generated 19-Apr-2025 ord Bachelor (60 ECTS) Biolog		page 51 / 70	



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

Module title					Abbreviation	
Excurs	ion II				07-S2-EX2-152-m01	L
Modul	e coord	inator		Module offered by	<u> </u>	
		ioCareers		Faculty of Biology		
ECTS		od of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
10	-i	rical grade				
Durati	on	Module level	Other prerequisites	i		
1 seme	ester	undergraduate		course advisory ser	vice in advance.	
Conte	nts					
Conter	Contents of the field trip to be determined by the respective institution.					
	Intended learning outcomes					
		•	h qualify them to work	in their profession.		
		· · · · · · · · · · · · · · · · · · ·	ntact hours, language –	•	an)	
E (8)		, number of weekty col		n other than define		
	e taugh	t in: German and/or Er	nglish			
Metho	d of ass	essment (type, scope	, language — if other th	an German, examina	ation offered — if not	every seme-
			e can be chosen to earn			,
a) writ	ten exai	mination (approx. 45 to	o 60 minutes) or			
		. 10 to 20 pages) or				
			e each (approx. 30 minu o 3 candidates (approx		adidata) ar	
		n (approx. 20 to 30 mi		. 20 minutes per car	luluate) ol	
			approx. 2 hours; time t	o complete will vary	according to subject	t area but will
		naximum of 4 hours).				
		be informed about the ssessment: German ar	method and length of t	he assessment prior	r to the course.	
	age of a able for					
Alloca	tion of p	olaces				
Additi	onal inf	ormation				
Workl	oad					
300 h						
-	ing cycl	e				
		-				
Referr	ed to in	<b>IPOI</b> (examination re	gulations for teaching-	degree programmes		
			<u>Sulations for teaching</u>		,	
Modul	e appea	urs in				
		gree (1 major) Biology	(2015)			
		gree (1 major) Mathem				
			ational Mathematics (2	015)		
	Bachelor's degree (1 major, 1 minor) Biology (Minor, 2015)					
		gree (1 major) Biology				
		gree (1 major) Biology				
		gree (1 major, 1 minor)				
		gree (1 major, 1 minor) gree (1 major) Biology				
Inacine		Sice (I major) biology	(2022)			
minor in a (2020)	Bachelor's	degree programme Biology		urg • generated 19-Apr-2025 ord Bachelor (60 ECTS) Biolog		page 53 / 70



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

Modul	e title				Abbreviation	
Interd	isciplina	ary Project II			07-S2-IP2-152-m01	
Modul	e coord	inator		Module offered by		
Coordi	inator B	ioCareers		Faculty of Biology		
ECTS		od of grading	Only after succ. cor			
10		rical grade				
Durati		Module level	Other prerequisites	i		
1 seme	ester	undergraduate		course advisory serv	vice in advance.	
Conte	nts		P			
Contei	nts of th	e project to be determ	ined by the competent	coordinators; conter	nts will vary accordin	g to topic.
		ning outcomes		·	,	
		-	ch qualify them to work	in their profession.		
			ntact hours, language –		an)	
R (8)		, number of weekty col		in other than define		
	e taugh	t in: German and/or Er	nglish			
		-	, language — if other th	an German, examina	ntion offered — if not	everv seme-
			e can be chosen to earn			, <b>,</b>
a) writ	ten exai	mination (approx. 45 to	o 60 minutes) or			
		. 10 to 20 pages) or				
			e each (approx. 30 minu to 3 candidates (approx		didata) ar	
		n (approx. 20 to 30 mi		. 20 minutes per car	iuiuale) oi	
			approx. 2 hours; time t	o complete will vary	according to subject	t area but will
		naximum of 4 hours).				
			method and length of t	he assessment prior	r to the course.	
	age of a able for	ssessment: German aı bonus	nd/or English			
	tion of p					
Additi	onal inf	ormation				
Workl	nad					
300 h	Juu					
	ing aval	•				
Teach	ing cycl	e				
Referr	ed to in	<b>LPO I</b> (examination re	gulations for teaching-	degree programmes)		
		•				
	e appea		/			
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 (2021)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2020)						
Bachelor's degree (1 major, 1 minor) Biology (Minor, 2021)						
Bache	lor's de	gree (1 major) Biology	(2022)			
minor in a	Bachelor's	degree programme Biology	IMU Würzb	urg • generated 19-Apr-2025	• exam.	page 55 / 70
(2020)		5 , 5		ord Bachelor (60 ECTS) Biolog		0.55772



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

Modul	le title				Abbreviation	
Labora	atory Pr	actical Course II			07-S2-LP2-152-m01	L
Modulo coordinator			Modulo offered by	<u> </u>		
Module coordinator			Module offered by			
		ioCareers		Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10		rical grade				
Durati		Module level	Other prerequisites			
1 seme		undergraduate	Please consult with	course advisory ser	vice in advance.	
Conter	nts					
		coursed is offered by an titution.	n institution that is par	t of the University. C	ontents to be detern	nined by the
Intend	led lear	ning outcomes				
		amiliar with the structu profession.	res of internal instituti	ons and have develo	oped skills which qu	alify them to
Course	es (type	, number of weekly con	tact hours, language –	- if other than Germa	an)	
P (8)		· ·				
	le taugh	t in: German and/or Eng	glish			
		sessment (type, scope, ion on whether module			ition offered — if not	every seme-
d) oral e) pres f) prac not exe Studer Langua	l examir sentatio tical exa ceed a r nts will	ation of one candidate nation in groups of up to n (approx. 20 to 30 min amination (on average a naximum of 4 hours). be informed about the r ssessment: German an bonus	3 candidates (approx utes) or approx. 2 hours; time t nethod and length of t	. 20 minutes per car o complete will vary	according to subjec	t area but wil
	tion of p					
		Jaces				
	1. 6					
Additio	onal Inf	ormation				
Worklo	oad					
300 h						
Teachi	ing cycl	e				
Referr	ed to in	LPOI (examination reg	ulations for teaching-	degree programmes)		
Modul	le appea	ars in				
		gree (1 major) Biology (2	2015)			
		gree (1 major) Mathema	-			
		gree (1 major) Computa	-	015)		
		gree (1 major, 1 minor) E		2.		
		gree (1 major) Biology (2				
		gree (1 major) Biology (2				
		gree (1 major, 1 minor) I				
		gree (1 major, 1 minor) I	Biology (Minor, 2021)			
	Bachelor's	degree programme Biology		urg • generated 19-Apr-2025		page 57 / 70
2020)			reg. data reco	ord Bachelor (6o ECTS) Bioloខ្	sie - 2020	



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

Module	e title				Abbreviation	
Legal a	nd Ethi	cal Aspects in Biologi	cal Sciences		07-SQF-RETH-211-m	01
Module coordinator				Module offered by	dule offered by	
Dean of Studies Biologie (Biology)			Faculty of Biology			
ECTS		od of grading	Only after succ. compl. of module(s)			
5	·	rical grade		•		
Duratio	on	Module level	Other prerequisites	;		
1 semester		undergraduate	exercises (minimum	Admission prerequisite to assessment: exercises. Regular attendance of exercises (minimum 80%) and successful completion of the respective exercises (approx. 25 to 30 hours) are prerequisites for admission to assessment.		
Conten	ts					
animal	testing		hical aspects surround n agriculture, biodivers tics.			
Intende	ed learr	ning outcomes				
ding sto sity and	em cell d nature	research, cloning, trar e conservation, biotecl	bles of good scientific p regenic animals, anima nnology and microbiolo exts. Students are able	ll testing, genetic en ogy, medicine and ne	gineering in agricultu eurogenetics and are	are, biodiver- able to eva-
Course	<b>s</b> (type,	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
V (1) +	Ü (1)					
			language — if other th can be chosen to earn		ition offered — if not	every seme-
	ige of a	ssessment: German ar	o minutes) or portfolio nd/or English			
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
150 h						
Teachi		•				
		e: every year, summer s	semester			
				dograa programmac)		
Referre			gulations for teaching-	uegree programmes)		
 Modula	2 20000	rc in				
<b>Module</b> Bachel			2011)			
Bachelor's degree (1 major) Biology (2011) Bachelor's degree (1 major) Chemistry (2010)						
Bachelor's degree (1 major) Psychology (2010)						
Bachelor's degree (1 major, 1 minor) Pedagogy (2013)						
Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013)						
Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008)						
	-	gree (2 majors) Special logiae Catholic Theolo	-			
minor in a I (2020)	Bachelor's	degree programme Biology		urg • generated 19-Apr-2025 ord Bachelor (60 ECTS) Biolog		page 59 / 70

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 60 / 70 reg. data record Bachelor (60 ECTS) Biologie - 2020 (2020)

Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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 61 / 70 (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 62 / 70 reg. data record Bachelor (60 ECTS) Biologie - 2020 (2020)

Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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)

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Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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

Subdivided Module Catalogue for the Subject Biology minor in a Bachelor's degree programme, 60 ECTS credits

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 65 / 70 (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 68 / 70

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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 69 / 70 reg. data record Bachelor (60 ECTS) Biologie - 2020 (2020)

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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)