

Subdivided Module Catalogue for the Subject

Biosciences

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

> Examination regulations version: 2017 Responsible: Faculty of Biology

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88|i05|-|-|H|2017

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.

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Abbreviations used

Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture

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

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

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

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

Conventions

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

Notes

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

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

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

In accordance with

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

ASPO2015

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

20-Apr-2017 (2017-23)

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 Electives (90	ECTS credits)			
Subtopic 1 (Primary Topic) (4	5 ECTS credits)			
Subtopic 2 (Secondary Topic)) (30 ECTS credits)			
	iary subject area, 45 ECTS credits in main subject area			
Module Group 1				
Neuroscience (30 ECTS				r
07-MS1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology	10	NUM	74
07-MS1N-152-m01	Molecular and Clinical Neurobiology	10	NUM	84
07-MS1CB-152-m01	Endogenous Clocks	10	NUM	78
07-MS1NMN- D-152-m01	Neuromodulation and Neuronal Development	10	NUM	94
07-MS1NB-152-m01	Neurogenetics of Behaviour	10	NUM	86
07-MS1NEC-152-m01	Developmental Neurobiology and Chronobiology	10	NUM	88
07-MS1NF1-152-m01	Neurobiology F1	10	NUM	90
07-MS1NF2-152-m01	Neurobiology F2	15	B/NB	92
Animal Ecology and Tr	opical Biology (30 ECTS credits)			
07-MS1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology	10	NUM	74
07-MS1TÖ-152-m01	Animal Ecology and Tropical Biology	10	NUM	96
07-MS1TÖ2-152-m01	Animal Ecology and Tropical Biology 2	10	NUM	98
07-MS1TÖF1-152-m01	Animal Ecology F1	10	NUM	100
07-MS1TÖF2-152-m01	Animal Ecology and Tropical Biology F2	15	B/NB	102
Behavioural Physiolog	y and Sociobiology (30 ECTS credits)			
07-MS1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology	10	NUM	74
07-MS1K-152-m01	Animal Communication	10	NUM	82
07-MS1ES-152-m01	Experimental Sociobiology	10	NUM	80
07-MS1NB-152-m01	Neurogenetics of Behaviour	10	NUM	86
07-MS1VF1-152-m01	Behavioural Physiology and Sociobiology F1	10	NUM	104
07-MS1VF2-152-m01	Behavioural Physiology and Sociobiology F2	15	B/NB	106
Module Group 2		-		
Molecular Cell- and De	velopmental Biology (30 ECTS credits)			
07-MS2-152-m01	Molecular Biology	10	NUM	108
07-MS2ZE1-152-m01	Cell and Developmental Biology Master 1	10	NUM	147
07-MS2ZE2-152-m01	Cell and Developmental Biology Master 2	10	NUM	149
07-MS2ZEF1-152-m01	Cell and Developmental Biology F1	10	NUM	151
	Cell and Developmental Biology F2	15	B/NB	153
Molecular Parasitolog			,	
Students who selected area may be selected f	this subject area must take module o7-MSPAR. The second th rom the list below.	eoretical mo	odule in this su	bject
07-MSPAR-171-m01	Molecular Parasitology	10	NUM	230
07-MS2-152-m01	Molecular Biology	10	NUM	108
07-MLS1-171-m01	Methods in Life Sciences	10	NUM	61
07-MSPARF1-171-m01	Molecular Parasitology F1	10	NUM	231

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	Molecular Parasitology F2	15	B/NB	:
Microbiology and Infe	ction Biology (30 ECTS credits)			
07-MS2-152-m01	Molecular Biology	10	NUM	1
07-MS2INF-152-m01	Infection Biology	10	NUM	
07-MS2PA-152-m01	Pathogenicity of Microorganisms	10	NUM	
07-MS2MF1-152-m01	Microbiology F1	10	NUM	
07-MS2MF2-152-m01	Microbiology F2	15	B/NB	:
Cellular and Molecular	Biotechnology (30 ECTS credits)			
07-MS2-152-m01	Molecular Biology	10	NUM	1
07-MS2BT-152-m01	Biophysics and Molecular Biotechnology	10	NUM	
07-MS3BB-152-m01	Biophysics and Biochemistry	10	NUM	
07-MS2BI-152-m01	Bioinformatics	10	NUM	
07-MS2BTF1-152-m01	Biophysics and Molecular Biotechnology F1	10	NUM	:
07-MS2BTF2-152-mo1	Biophysics and Molecular Biotechnology F2	15	B/NB	:
Tissue Engineering an	d regenerative Medicine (30 ECTS credits)	•		
Students who selected may be selected from t	l this subject area must take module 03-MSTE. The second theo	pretical mod	lule in this sub	ject
03-MSTE-171-m01	Tissue Engineering	10	NUM	Γ
07-MS2-152-m01	Molecular Biology	10	NUM	
07-MLS1-171-m01	Methods in Life Sciences	10	NUM	+
03-MSTEF1-171-m01	Tissue engineering and regenerative Medicine F1	10	NUM	┼
03-MSTEF2-171-m01	Tissue engineering and regenerative Medicine F2	15	B/NB	┢
Bioinformatics (30 EC1	S credits)	_ <u>.</u>		
Students who selected area may be selected f	I this subject area must take module 07-MS2BI. The second the rom the list below.	eoretical mo	dule in this su	bjeo
07-MS2BI-152-m01	Bioinformatics	10	NUM	
07-MS2BI-152-m01 07-MS1-152-m01	Bioinformatics Neurobiology, Behavioural Physiology and Animal Ecology	10 10	NUM NUM	┼─
			-	
07-MS1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology	10	NUM	
07-MS1-152-m01 07-MS1N-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology	10	NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology	10 10 10	NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication	10 10 10 10	NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology	10 10 10 10 10 10	NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1	10 10 10 10 10 10 10	NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2	10 10 10 10 10 10 10 10	NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01 07-MS2INF-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology	10 10 10 10 10 10 10 10 10	NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01 07-MS2INF-152-m01 07-MS2PA-152-m01 07-MS2IM1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms	10 10 10 10 10 10 10 10 10 10	NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01 07-MS2INF-152-m01 07-MS2PA-152-m01 07-MS2IM1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1	10 10 10 10 10 10 10 10 10 10 10	NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM1-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2	10 10 10 10 10 10 10 10 10 10 10 10	NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM1-152-m01 07-MS2IM2-152-m01 03-MSMV-171-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology	10 10 10 10 10 10 10 10 10 10 10 10 10	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE2-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM1-152-m01 03-MSMV-171-m01 07-MS2HG-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology Human Genetics Current Methods in Biology	10 10 10 10 10 10 10 10 10 10 10 10 10 1	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE1-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM2-152-m01 03-MSMV-171-m01 07-MS2HG-152-m01 07-MS31-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology Human Genetics	10 10 10 10 10 10 10 10 10 10 10 10 10 1	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE1-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM2-152-m01 07-MS2HG-152-m01 07-MS31-152-m01 07-MS31POEK-152- m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology Human Genetics Current Methods in Biology	10 10 10 10 10 10 10 10 10 10 10 10 10 1	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE1-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM2-152-m01 07-MS2HG-152-m01 07-MS31-152-m01 07-MS31POEK-152- m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology Human Genetics Current Methods in Biology Plant Ecology	10 10	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE1-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM2-152-m01 07-MS31-152-m01 07-MS31POEK-152- m01 07-MS31PIP-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology Human Genetics Current Methods in Biology Plant Ecology Plant Immunobiology and Pharmaceutical Biology Biophysics and Biochemistry	10 10	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	
07-MS1-152-m01 07-MS1N-152-m01 07-MS1TÖ-152-m01 07-MS1K-152-m01 07-MS2-152-m01 07-MS2ZE1-152-m01 07-MS2ZE1-152-m01 07-MS2INF-152-m01 07-MS2IM1-152-m01 07-MS2IM2-152-m01 07-MS31-152-m01 07-MS31POEK-152- m01 07-MS31PIP-152-m01 07-MS31PIP-152-m01	Neurobiology, Behavioural Physiology and Animal Ecology Molecular and Clinical Neurobiology Animal Ecology and Tropical Biology Animal Communication Molecular Biology Cell and Developmental Biology Master 1 Cell and Developmental Biology Master 2 Infection Biology Pathogenicity of Microorganisms Immunology 1 Immunology 2 Molecular Virology Human Genetics Current Methods in Biology Plant Ecology Plant Immunobiology and Pharmaceutical Biology Biophysics and Biochemistry Systems Biology	10 10	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	

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Immunology (30 ECTS	credits)			
07-MS2IM1-152-m01	Immunology 1	10	NUM	129
07-MS2IM2-152-m01	Immunology 2	10	NUM	130
07-MS2IMF1-152-m01	Immunology F1	10	NUM	131
07-MS2IMF2-152-m01	Immunology F2	15	B/NB	132
Molecular Virology (30	ECTS credits)			
area may be selected f		oretical mo	dule in this sub	oject
03-MSMV-171-m01	Molecular Virology	10	NUM	21
07-MS2-152-m01	Molecular Biology	10	NUM	108
07-MLS1-171-m01	Methods in Life Sciences	10	NUM	61
03-MSMVF1-172-m01	Molecular Virology F1	10	NUM	23
03-MSMVF2-172-m01	Molecular Virology F2	15	B/NB	24
Human Genetics (30 EC Students who selected area may be selected f	this subject area must take module o7-MS2HG. The second the	oretical mo	odule in this su	bject
07-MS2HG-152-m01	Human Genetics	10	NUM	126
07-MS2-152-m01	Molecular Biology	10	NUM	108
07-MS2ZE1-152-m01	Cell and Developmental Biology Master 1	10	NUM	147
07-MS2ZE2-152-m01	Cell and Developmental Biology Master 2	10	NUM	149
07-MS2INF-152-m01	Infection Biology	10	NUM	133
07-MS2PA-152-m01	Pathogenicity of Microorganisms	10	NUM	141
07-MS2IM1-152-m01	Immunology 1	10	NUM	129
07-MS2IM2-152-m01	Immunology 2	10	NUM	130
03-MSMV-171-m01	Molecular Virology	10	NUM	21
07-MS2HG- F1-152-m01	Human Genetics F1	10	NUM	127
07-MS2HG- F2-152-m01	Human Genetics F2	15	B/NB	128
Physiological Chemist	 ny (ao ECTS credits)			
Students who selected	this subject area must take module o7-MS2 and must select eit second theoretical module.	ther modul	e 07-MS2ZE1 0	r modu-
07-MS2-152-m01	Molecular Biology	10	NUM	108
07-MS2ZE1-152-m01	Cell and Developmental Biology Master 1	10	NUM	147
07-MS2ZE2-152-m01	Cell and Developmental Biology Master 2	10	NUM	149
07-MS2ZEF1-152-m01	Cell and Developmental Biology F1	10	NUM	151
07-MSL2-152-m01	Laboratory Course 2	10	B/NB	225
07-MSLRTF1-152-m01	Laboratory Research Training F1	10	NUM	229
07-MS2PHF2-152- m01	Physiological Chemistry F2	15	B/NB	145
Cellular Tumor Biology	י א (אס ECTS credits)	I		I
07-TUM-MOI-152-				
m01	Molecular Tumor Biology	5	NUM	265
07-TUM-CLIN-152-	<u> </u>			
m01	Clinical Tumor Biology	5	NUM	264
07-MS2-152-m01	Molecular Biology	10	NUM	108
07-MS2ZE1-152-m01	Cell and Developmental Biology Master 1	10	NUM	147
07-MS2ZE2-152-m01	Cell and Developmental Biology Master 2	10	NUM	147
0/ 10/ 2222-152-1101	Cent and Developmental Diology Master 2			1 49

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	Infection Bi		10	NUM	133
07-MS2PA-152-m01	-	ity of Microorganisms	10	NUM	14:
	Immunolog		10	NUM	129
	Immunolog		10	NUM	13
03-MSMV-171-m01	Molecular \	/irology	10	NUM	21
07-MS2HG-152-m01	Human Ger	netics	10	NUM	12
07-MSLRTF1-152-m01	Laboratory	Research Training F1	10	NUM	22
07-MSL2-152-m01	Laboratory		10	B/NB	22
07-MS2ZTF1-152-m01	Cellular Tur	nor Biology F1	10	NUM	15
07-MS2ZTF2-152-m01	Cellular Tur	nor Biology F2	15	B/NB	15
Module Group 3					
Molecular Plant Physic	ology (30 EC	TS credits)			
07-MS31-152-m01	Current Me	thods in Biology	10	NUM	15
07-MS31POEK-152- m01	Plant Ecolo	gy	10	NUM	16
07-MS31PIP-152-m01	Plant Immu	nobiology and Pharmaceutical Biology	10	NUM	16
07-MS3BB-152-m01	Biophysics	and Biochemistry	10	NUM	17
07-MS31MPP- F1-152-m01	Molecular F	Plant Physiology F1	10	NUM	16
07-MS31MPP- F2-152-m01	Molecular F	Plant Physiology F2	15	B/NB	16
Biochemistry and Strue	tural Biolo	gy (30 ECTS credits)			
07-MS31-152-m01		thods in Biology	10	NUM	15
		and Biochemistry	10	NUM	17
		and Molecular Biotechnology	10	NUM	11
		nobiology and Pharmaceutical Biology	10	NUM	16
07-MS31POEK-152- m01	Plant Ecolo	gy	10	NUM	16
07-MS3BSBF1-152- m01	Biochemist	ry and Structural Biology F1	10	NUM	18
07-MS3BSBF2-152- m01	Biochemist	ry and Structural Biology F2	15	B/NB	18
Molecular Membran Bi	ology (30 E	CTS credits)	I		
07-MS31-152-m01	Current Me	thods in Biology	10	NUM	15
	Biophysics	and Biochemistry	10	NUM	17
07-MS2BT-152-m01	Biophysics and Molecular Biotechnology		10	NUM	11
		nobiology and Pharmaceutical Biology	10	NUM	16
07-MS31POEK-152-	Plant Ecolo		10	NUM	16
	Biophysics	of Plant Membrane Proteins F1	10	NUM	17
07-MS3B-		of Plant Membrane Proteins F2	15	B/NB	17
PF2-152-m01	TE and the				
Plant Signalling (30 EC		thads in Pialany		N11 1 A 4	1.
07-MS31-152-m01		thods in Biology	10	NUM	15
07-MS3BB-152-m01		and Biochemistry nobiology and Pharmaceutical Biology	10	NUM	17 16
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07-MS31POEK-152- m01	Plant Ecolo	gy	10	NUN	16
07-MS3SPF1-152-m01	Plant Signa	Illing F1	10	NUN	1 20
07-MS3SPF2-152-m01	Plant Signa	Illing F2	15	B/NE	3 20
Pharmaceutical Biology	y & Metabo	lomics (30 ECTS credits)			
07-MS31-152-m01	Current Me	thods in Biology	10	NUN	15
07-MS31PIP-152-m01	Plant Immu	nobiology and Pharmaceutical Biology	10	NUN	1 16
07-MS3BB-152-m01	Biophysics	and Biochemistry	10	NUN	17
07-MS31POEK-152- m01	Plant Ecolo	gy	10	NUN	1 16
07-MS2-152-m01	Molecular I	Biology	10	NUN	10
07-MS2BI-152-m01	Bioinforma	tics	10	NUN	111
	Systems Bi	ology	10	NUN	1 20
	-	gy, Behavioural Physiology and Animal Ecology	10	NUN	1 74
07-MS3PBM-		tical Biology and Metabolomics F1	10	NUN	
07-MS3PBM-	Pharmaceu	tical Biology and Metabolomics F2	15	B/NE	3 19
Physiological Plant Eco	logy (30 EC	TS credits)			I
		thods in Biology	10	NUN	1 15
		and Biochemistry	10	NUN	
		nobiology and Pharmaceutical Biology	10	NUN	
07-MS31P0FK-152-	Plant Ecolo		10	NUN	
07-MS3PPF-	Physiologic	cal Plant Ecology F1	10	NUN	l 19
07-MS3PPF-	Physiologic	cal Plant Ecology F2	15	B/NE	3 19
Molecular and Chemica	l Plant Eco	logy (30 ECTS credits)			
		thods in Biology	10	NUN	1 15
		and Biochemistry	10	NUN	
		inobiology and Pharmaceutical Biology	+	NUN	
07-MS31P0FK-152-	Plant Ecolo		10	NUN	
07-MS3MCPF-	Molecular a	and Chemical Plant Ecology F1	10	NUN	l 18
07-MS2MCPF-	Molecular and Chemical Plant Ecology F2		15	B/NE	3 19
System Biology (30 EC Students who selected		t area must take module o7-MS3S.	11		I
	Systems Bi		10	NUN	20
07-MS2BI-152-m01	Bioinforma	tics	10	NUN	l 11:
07-MS1-152-m01	Neurobiolo	gy, Behavioural Physiology and Animal Ecology	10	NUN	1 74
07-MS1N-152-m01	Molecular a	and Clinical Neurobiology	10	NUN	1 84
07-MS1TÖ-152-m01	Animal Eco	logy and Tropical Biology	10	NUN	1 96
		nmunication	10	NUN	1 82
, ,	Molecular I		10	NUN	

07-MS2ZE1-152-m01 07-MS2ZE2-152-m01					-,
07-MS2ZE2-152-m01	Cell and De	evelopmental Biology Master 1	10	NUM	147
	Cell and De	evelopmental Biology Master 2	10	NUM	149
07-MS2INF-152-m01	Infection B	iology	10	NUM	133
07-MS2PA-152-m01	Pathogeni	city of Microorganisms	10	NUM	141
07-MS2IM1-152-m01	Immunolo	gy 1	10	NUM	129
07-MS2IM2-152-m01	Immunolo	gy 2	10	NUM	130
03-MSMV-171-m01	Molecular	Virology	10	NUM	21
07-MS2HG-152-m01	Human Ge	netics	10	NUM	126
07-MS31-152-m01	Current Me	thods in Biology	10	NUM	157
07-MS3BB-152-m01	Biophysics	and Biochemistry	10	NUM	173
07-MS31PIP-152-mo1	Plant Immi	unobiology and Pharmaceutical Biology	10	NUM	165
07-MS31POEK-152-					
m01	Plant Ecolo)gy	10	NUM	169
07-MS3SYF1-152-m0	1 Systems B	iology F1	10	NUM	207
07-MS3SYF2-152-m0	+		15	B/NB	209
Module Group 4					
Sociobiology".	ne the topics	"Neuroethology Neurogenetics" and "Neuroetho			1
07-MS1NB-152-m01		tics of Behaviour	10	NUM	86
07-MS1CB-152-m01	Endogenou		10	NUM	78
07-MS1NF1-152-m01	Neurobiolo	ogy F1	10	NUM	90
07-MS1NF2-152-m01	Neurobiolo	ogy F2	15	B/NB	92
		siology and Sociobiology (30 ECTS credits) 5 "Neuroethology Neurogenetics" and "Neuroetho	logy Beha	vioural Physio	logy and
07-MS1-152-m01		ogy, Behavioural Physiology and Animal Ecology	10	NUM	74
07-MS1ES-152-m01	Experimen	tal Sociobiology	10	NUM	80
07-MS1VF1-152-m01	Behaviour	al Physiology and Sociobiology F1	10	NUM	104
07-MS1VF2-152-m01		al Physiology and Sociobiology F2	15	B/NB	106
Cell and Development					
		s "Molecular Infection Biology" and "Cell and Develo Biology			100
07-MS2-152-m01	Molecular	•,	10	NUM	108
, ,		evelopmental Biology Master 2	10	NUM	149
07-MLS1-152-m01		n Life Sciences	10	NUM	59
		evelopmental Biology F1	10	NUM	151
, ,		evelopmental Biology F2	15	B/NB	153
Molecular Infection B		•	n montal Di		
o7-MS2-152-mo1	Molecular	"Molecular Infection Biology" and "Cell and Develo Biology	10	NUM	108
		n Life Sciences	<u> </u>		1 100
			10	NIT I MA	EO
07-MLS1-152-m01			10	NUM	59
07-MLS1-152-m01 07-MS2PA-152-m01	Pathogenio	ity of Microorganisms	10	NUM	141
07-MLS1-152-m01 07-MS2PA-152-m01 07-MS2MF1-152-m01	Pathogenio Microbiolo	tity of Microorganisms gy F1	10	NUM NUM	141 137
07-MLS1-152-m01 07-MS2PA-152-m01 07-MS2MF1-152-m01 07-MS2MF2-152-m03	Pathogenio Microbiolo Microbiolo	tity of Microorganisms gy F1 gy F2	10	NUM	141
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07-MLS1-152-m01 07-MS2PA-152-m01 07-MS2MF1-152-m01 07-MS2MF2-152-m01 Systems Biology and Students must combi	Pathogenio Microbiolo Microbiolo Metabolomi ne the topics bolomics".	tity of Microorganisms gy F1 gy F2 cs - Systems Biology (30 ECTS credits) 5 "Systems Biology and Metabolomics Systems Bi	10 10 15	NUM NUM B/NB	141 137 139
07-MLS1-152-m01 07-MS2PA-152-m01 07-MS2MF1-152-m01 07-MS2MF2-152-m01 Systems Biology and Students must combin Metabolomics Meta	Pathogenia Microbiolo Microbiolo Metabolomi ne the topics bolomics". Topics in S	tity of Microorganisms gy F1 gy F2 cs - Systems Biology (30 ECTS credits) 5 "Systems Biology and Metabolomics Systems Bi	10 10 15 iology" and '	NUM NUM B/NB 'Systems Biolo	141 137 139 ogy and

07.M535YF1-152-moi 10 NUM 07.M535YF2-152-moi Systems Biology and Metabolomics - Systems Biology" and "Systems Biology and Metabolomics - Systems Biology" and "Systems Biology and Metabolomics - Systems Biology" and "Systems Biology and Metabolomics - Metabolomics". 10 NUM 07.M52FB1-52-moi Molecular Biology and Metabolomics - Systems Biology" and "Systems Biology Master 2 10 NUM 07.M53PBM- Pharmaceutical Biology and Metabolomics F1 10 NUM 07.M53PBM- Pharmaceutical Biology - Computational Biology (Sp ECTS credits) Biology - Molecular and Computational Biology ' With "Molecular and Computational Biology". Alternatively, they may combine the topic "Molecular and Computational Biology - Computational Biology - Computational Biology - Computational Biology ' Nolecular Biology' and Prints - Molecular Biology ' Alternatively, they may combine this print in Chemists 'Molecular and Computational Biology' F1 10 NUM 07.M52TB1-152-moi Topics in Sistems Biology (Sp ECTS credits) Students may combine the topics ''Molecular and Computational Biology ' Molecular Biology ' 10 NUM<	
Systems Biology and Metabolomics - Metabolomics - Systems Biology and Metabolomics Systems Biology" and "Systems Biology" and Target and Developmental Biology and Metabolomics F1 10 NUM 07-MS32F2s-rps-rno1 Cell and Developmental Biology and Metabolomics F2 15 B/NB 72-MS3PBM- Pharmaceutical Biology - Computational Biology" of CCTS credits) Students may combine the topic "Molecular and Computational Biology" - Computational Biology" with "Molecular and Computational Biology in the Orgics in Systems Biology 10 NUM 07-MS3PBM- Frisp2-moi Topics in Systems Biology 10 NUM 07-MS3PS/rsp2-moi Topics in Systems Biology 10 NUM 07-MS3PS 07-MS3PDF- Computational Biology - Mecular Biology (30 ECTS credits) NUM 07-MS3COB- 10 NUM 07-MS3COB- Computational Biology - Molecular Biology (30 ECTS credits) Students must combine the topics "Nelseular Biology (30 ECTS c	20
Students must combine the topics "Systems Biology and Metabolomics Systems Biology" and "Systems Biology" 10 NUM 07-M52-F32-m01 Molecular Biology 10 NUM 07-M52-F32-m01 Topics in Bioinformatics 10 NUM 07-M52-F32-m01 Cell and Developmental Biology Master 2 10 NUM 07-M52/FBM- Pharmaceutical Biology and Metabolomics F1 10 NUM 07-M53/FBM- Pharmaceutical Biology - Computational Biology (30 ECTS credits) Students may combine the topic "Molecular and Computational Biology - Computational Biology - Molecular Biology". Alternatively, they may combine this topic with "Protein Chemist "Molecular and Cellurar Biology". Alternatively, they may combine this topic with "Protein Chemist "Molecular and Cellurar Biology". Alternatively, they may combine this topic with "Protein Chemist "Molecular and Cellurar Biology". 07-M53TSY-152-m01 Topics in Systems Biology 10 NUM 07-M53C08- Computational Biology F2 15 B/NB Molecular and Computational Biology Molecular Biology". 10 NUM 07-M53C08- Computational Biology Molecular Biology". 10 NUM 07-M53C08- Computational Biology Molecular Biology". 10 NUM 07-M521-52-m01 Molecular Biology Molecular Biology". 10<	20
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o7-MS2ZE2-152-motCell and Developmental Biology Master 210NUM07-MS3PBM- F1-152-motPharmaceutical Biology and Metabolomics F110NUM07-MS3PBM- F2-152-motPharmaceutical Biology and Metabolomics F215B/NBMolecular and Computational Biology - With "Molecular and Cellular Biology". Molecular Biology - Computational Biology - With "Molecular and Cellular Biology".07-MS3(TSY-152-motTopics in Systems Biology10NUM07-MS3(COB- F1-152-motComputational Biology - Molecular Biology F215B/NB07-MS3(COB- F2-152-motComputational Biology - Molecular Biology".10NUM07-MS3(COB- F2-152-motComputational Biology - Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology".07-MS3(COB- F2-152-motComputational Biology - Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology".07-MS2(COB- F2-152-motMolecular Biology - Molecular Biology".10NUM07-MS2(CB- F2-152-motMolecular Biology - Molecular Biology.10NUM07-MS2(COB- F2-152-motMolecular Biology - Molecular Biology.10NUM07-MS2(CB- F2-152-motMolecular Biology - Molecular Biology.10NUM07-MS2(F3-restor)Molecular Biology - Molecular Biology.10NUM07-MS2(F3-restor)Molecular Biology - Molecular Biology.10NUM07-MS2(F3-restor)Molecular Biology F215<	10
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FinitsPharmaceutical Biology and Metabolomics F110NUM07-MS3PBM- F2-152-m01Pharmaceutical Biology and Metabolomics F215B/NBMolecular and Computational Biology - Computational Biology - Computational Biology - Molecular and Computational Biology - Computational Biology - Computational Biology - Molecular and Cellular Biology - Metabolomics F210NUM07-MS3TSY-152-m01Topics in Systems Biology10NUMNUM07-MS3TSY-152-m01Topics in Systems Biology - Computational Biology - Computational Biology - Molecular Biology F110NUM07-MS3COB- F1-152-m01Computational Biology F210NUM07-MS3COB- F2-152-m01Computational Biology F215B/NBMolecular and Computational Biology - Molecular Biology - Computational Biology - Molecular Biology - Computational Biology - Molecular Biology - M	14
Pharmaceutical Biology and Metabolomics F215B/NBMolecular and Computational Biology - Computational Biology - Computational Biology - Molecular and Computational Biology - Computational Biology - With "Molec Computational Biology - Molecular Biology". Atternatively, they may combine this topic with "Protein Chemistr "Molecular and Cellular Biology". Atternatively, they may combine this topic with "Protein Chemistr "Molecular and Cellular Biology". Atternatively, they may combine this topic with "Protein Chemistr "Molecular and Cellular Biology". In10NUM07-MS3TSY-152-m01Topics in Bioinformatics10NUM07-MS3COB- F2-152-m01Computational Biology F215B/NBStudents must combine the topics "Molecular Biology (3p ECTS credits)B/NBNUM07-MS2r152-m01Computational Biology - Molecular Biology (3p ECTS credits)BIONStudents must combine the topics "Molecular Biology".10NUM07-MS2r152-m01Molecular Biology10NUM07-MS2r152-m01Molecular Biology10NUM07-MS2r152-m01Molecular Biology10NUM07-MS2r152-m01Molecular Biology10NUM07-MS2r152-m01Molecular Biology F110NUM07-MS2r152-m01Molecular Biology F215B/NB07-MS2r152-m01Molecular Biology F210NUM07-MS2r152-m01Molecular Biology F110NUM07-MS2r152-m01Molecular Biology F215B/NBPlant Ecology (3p ECTS credits)Students must combine the topics "Plant Ecology" and "Animal Ecology".10<	19
Molecular and Computational Biology (30 ECTS credits)Students may combine the topic "Molecular and Computational Biology Computational Biology" with "Molec Computational Biology Molecular Biology". Alternatively, they may combine this topic with "Protein Chemisti "Molecular and Cellular Biophysics".10NUM07-MS3TSY-152-m01Topics in Systems Biology10NUM07-MS2TBI-152-m01Topics in Bioinformatics10NUM07-MS3COB- F1-152-m01Computational Biology F215B/NB07-MS3COB- F2-152-m01Computational Biology F215B/NBMolecular Biology - Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular Biology".07-MS2-152-m01Molecular Biology Molecular Biology10NUMOT-MS2-152-m01Molecular Biology F110NUMOT-MS2-152-m01Molecular Biology F215B/NBOT-MS2-152-m01Molecular Biology F110NUMOT-MS31POEK-152- m01 </td <td>19</td>	19
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o7-MS3COB- F1-152-m01Computational Biology F110NUMo7-MS3COB- F2-152-m01Computational Biology F215B/NBMolecular and Computational Biology - Molecular Biology (30 ECTS credits)B/NBStudents must combine the topics "Molecular and Computational Biology Computational Biology Molecular Biology".10NUM07-MS2-152-m01Molecular Biology Molecular Biology Computational Biology Molecular Biology F110NUM07-MS2-152-m01Molecular Biology F110NUM07-MS2-152-m01Molecular Biology F215B/NBPlant Ecology (30 ECTS credits)Students must combine the topics "Plant Ecology" and "Animal Ecology".10NUM07-MS31POEK-152- m01Plant Ecology F110NUM07-MS32PPE- 	21
F1-152-m01Computational Biology F110NUM07-MS3COB- F2-152-m01Computational Biology F215B/NBMolecular and Computational Biology - Molecular Biology (30 ECTS credits)Students must combine the topics "Molecular and Computational Biology Computational Biology Molecular Biology".10NUM07-MS2-152-m01Molecular Biology Molecular Biology Molecular Biology Molecular Biology Computational Biology Computational Biology Molecular Biology Molecular Biology Computational Biology Molecular Biology F110NUM07-MS2PA-152-m01Molecular Biology F210NUM07-MSF1-152-m01Molecular Biology F215B/NBPlant Ecology (30 ECTS credits)Students must combine the topics "Plant Ecology" and "Animal Ecology".10NUM07-MS31POEK-152- m01Plant Ecology Int Ecology F110NUM07-MS31POEK-152- m01Plant Ecology F110NUM07-MS3PPE- F2-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F215B/NB07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F215B/NB	14
H-152-mo1 Computational Biology F2 15 B/NB r2-152-mo1 Computational Biology - Molecular Biology (30 ECTS credits) B/NB Students must combine the topics "Molecular Biology". 10 NUM 07-MS2-152-mo1 Molecular Biology - Molecular Biology". 10 NUM 07-MS2-152-mo1 Molecular Biology 10 NUM 07-MS2-152-mo1 Methods in Life Sciences 10 NUM 07-MS2-152-mo1 Topics and Concepts in Life Sciences 10 NUM 07-MS2-152-mo1 Molecular Biology F1 10 NUM 07-MS5F1-152-mo1 Molecular Biology F2 15 B/NB Plant Ecology (30 ECTS credits) Students must combine the topics "Plant Ecology" and "Animal Ecology". 10 NUM 07-MS2-152-mo1 Molecular Biology F2 15 B/NB Plant Ecology (30 ECTS credits) Students must combine the topics "Plant Ecology" and "Animal Ecology". 10 NUM 07-MS2-152-mo1 Molecular Biology F2 10 NUM 07-MS31POEK-152- mo1 Plant Ecology 10 NUM 07-MS3PPE- F1-152-mo1 Physiological Plant Ecology F2 15 B/NB	18
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Students must combine the topics "Plant Ecology" and "Animal Ecology".07-MS31POEK-152- mo1Plant Ecology10NUM07-MS2-152-mo1Molecular Biology10NUM07-MS3PPE- F1-152-mo1Physiological Plant Ecology F110NUM07-MS3PPE- F2-152-mo1Physiological Plant Ecology F210NUM07-MS3MCPE- F1-152-mo1Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-mo1Molecular and Chemical Plant Ecology F210NUM07-MS3MCPE- F2-152-mo1Molecular and Chemical Plant Ecology F215B/NB	22
Molecular Biology10NUM07-MS2-152-m01Molecular Biology10NUM07-MS3PPE- F1-152-m01Physiological Plant Ecology F110NUM07-MS3PPE- F2-152-m01Physiological Plant Ecology F210NUM07-MS3MCPE- F1-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F110NUM07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F210NUM	
07-MS3PPE- F1-152-m01Physiological Plant Ecology F110NUM07-MS3PPE- F2-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F110NUM07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F210NUM07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F210NUM	16
F1-152-m01Physiological Plant Ecology F110NUM07-MS3PPE- F2-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F110NUM07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F210NUM07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F210NUM	10
F1-152-m01Physiological Plant Ecology F215B/NB07-MS3PPE- F2-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F110NUM07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F215B/NB	
F2-152-m01Physiological Plant Ecology F215B/NB07-MS3MCPE- F1-152-m01Molecular and Chemical Plant Ecology F110NUM07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F215B/NB	19
F1-152-m01Molecular and Chemical Plant Ecology F110NUM07-MS3MCPE- F2-152-m01Molecular and Chemical Plant Ecology F215B/NB	19
F1-152-m01Molecular and Chemical Plant Ecology F215B/NBF2-152-m0115B/NB	18
F2-152-m01 Molecular and Chemical Plant Ecology F2 15 B/NB	
F2-152-m01	19
Animal Ecology (30 ECTS credits)	
Students must combine the topics "Plant Ecology" and "Animal Ecology".	
07-MS1-152-mo1 Neurobiology, Behavioural Physiology and Animal Ecology 10 NUM	7
07-MS1TÖ2-152-mo1 Animal Ecology and Tropical Biology 2 10 NUM	9
07-MS1TÖF1-152-m01 Animal Ecology F1 10 NUM	10
07-MS1TÖF2-152-m01 Animal Ecology and Tropical Biology F2 15 B/NB	10
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Molecular and Cellular	•••	; (30 ECTS credits) ; "Molecular and Cellular Biophysics" and "Molecular	and Comp	utational Dial	
Computational Biology	/" .				ogy
07-MS3BB-152-m01		and Biochemistry	10	NUM	173
07-MS2BT-152-m01	<u> </u>	and Molecular Biotechnology	10	NUM	118
,	Biophysics	of Plant Membrane Proteins F1	10	NUM	177
07-MS3B- PF2-152-m01	Biophysics	of Plant Membrane Proteins F2	15	B/NB	179
07-MS2BTF1-152-m01	Biophysics	and Molecular Biotechnology F1	10	NUM	122
07-MS2BTF2-152-mo	Biophysics	and Molecular Biotechnology F2	15	B/NB	124
Protein Chemistry (30 Students must combin Biology".		s) "Protein Chemistry" and "Molecular and Computatic	onal Biolog	y Computatio	onal
07-MS3BB-152-m01	Biophysics	and Biochemistry	10	NUM	173
07-MS2BT-152-m01	Biophysics	and Molecular Biotechnology	10	NUM	118
07-MS3BSBF1-152- m01	Biochemis	try and Structural Biology F1	10	NUM	181
07-MS3BSBF2-152- m01	Biochemis	try and Structural Biology F2	15	B/NB	183
Subtopic Additional Achi	evements (:	15 ECTS credits)	I		
07-MSL1-152-m01	Laboratory	Course 1	5	B/NB	223
07-MSL2-152-m01	Laboratory	Course 2	10	B/NB	225
07-MSL3-152-m01	Laboratory	Course 3	15	B/NB	227
07-MSA1-152-m01	External In	ternship 1	5	B/NB	212
07-MSA2-171-m01	External In	ternship 2	10	B/NB	214
07-MSA3-152-m01	External In	ternship 3	15	B/NB	215
07-MSCC-152-m01	Biochemis [.] ture	try, Physiology and Genetics of Mammalian Cell Cul-	5	B/NB	219
03-MSMT-152-m01	Molecular	Techniques	3	B/NB	20
07-ML-152-m01	Linux and I	Perl	5	B/NB	57
03-MSTEAT-171-m01	Tissue eng	ineering as alternative for animal testing	5	B/NB	26
03-MSKVir-171-m01		ology for Biosciences	5	NUM	19
07-MSTROPS-171-m01		opical Biology	5	B/NB	233
07-MLS1B-152-m01		Life Sciences B	7	B/NB	62
07-MLS1-152-m01		Life Sciences	10	NUM	59
07-MLS2B-152-m01		Concepts in Life Sciences B	7	B/NB	66
07-MLS2-152-m01	· ·	Concepts in Life Sciences	10	NUM	64
07-TUM-MOL-152-mo1	· ·	Tumor Biology	5	NUM	265
07-TUM-CLIN-152-m01		nor Biology		NUM	264
		thods in Biology B	5		
07-MS31B-152-m01			7	B/NB	159
07-MS31POEK-	Plant Ecolo	gy B	5	B/NB	171
B-152-m01	Diant Imm	unphiology and Dharmacoutical Dialogy D		D /ND	46-
07-MS31PIPB-152-m01		anobiology and Pharmaceutical Biology B	5	B/NB	167
07-MS3BBB-152-m01	- · ·	and Biochemistry B	5	B/NB	175
07-MS2BTB-152-m01	· · ·	and Molecular Biotechnology B	5	NUM	120
07-MS1B-152-m01		gy, Behavioural Physiology and Animal Ecology B	7	B/NB	76
07-MNBB-152-m01		tics of Behaviour B	5	B/NB	70
		ulation and Neuronal Development B	5	B/NB	43
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07-MECB-152-m01	Endogenous Clocks B	5	B/NB	39
07-MTÖB-152-m01	Animal Ecology and Tropical Biology B	5	B/NB	237
07-MTÖ2B-152-m01	Animal Ecology and Tropical Biology 2 B	5	B/NB	235
07-MKB-152-m01	Animal Communication B	7	B/NB	53
07-MESB-152-m01	Experimental Sociobiology B	7	B/NB	45
07-MS2B-152-m01	Molecular Biology B	7	B/NB	110
07-MS2INF-B-152-m01	Infection Biology B	5	B/NB	135
07-MS2PA-B-152-m01	Pathogenicity of Microorganisms B	5	B/NB	143
07-MZE1-B-152-m01	Cell and Developmental Biology Master 1 B	3	B/NB	261
07-MZE2-B-152-m01	Cell and Developmental Biology Master 2 B	3	B/NB	262
07-MBI-B-152-m01	Bioinformatics B	5	B/NB	37
07-MS-B-152-m01	Systems Biology B	5	B/NB	217
03-MIM1-B-152-m01	Immunology 1 B	7	B/NB	15
03-MIM2-B-152-m01	Immunology 2 B	7	B/NB	17
03-MIM1-BS-152-m01	Immunology 1 BS	5	B/NB	16
03-MIM2-BS-152-m01	Immunology 2 BS	5	B/NB	18
03-MSMV-B-171-m01	Molecular Virology B	7	B/NB	22
07-MKEWO-152-m01	Nucleus Workshop	7	B/NB	55
07-MGRSD-152-m01	Gene Regulation and Signal Transduction	3	B/NB	50
07-MMIÖK-152-m01	Microbial Ecology	3	B/NB	69
07-MHWB-152-m01	Ecology of Honey Bees and Wild Bees	3	NUM	52
07-METI-152-m01	Ecology and Taxonomy of Insects	3	NUM	47
07-MMIE-152-m01	Modelling in Ecology	3	NUM	68
07-MAGRE-152-m01	Agroecology	2	NUM	36
07-MFEC-152-m01	Forest Ecology	2	NUM	48
07-MTROP-152-m01	Tropical Ecology	5	NUM	239
07-MSET-152-m01	Seminar Experimental Animal Ecology	2	B/NB	220
07-MPWD-152-m01	Presentation of Scientific Data	5	B/NB	72
07-MGLN-152-m01	Quality Assurance, Good Practice, Biosafety and Biosecurity	5	NUM	49
07-MGUG-152-m01	Brain and Mind	3	B/NB	51
07-MWIG-152-m01	Theory and History of Science	3	B/NB	260
07-MEMB-152-m01	Entrepreneurial Management in the Biosciences	10	B/NB	41
07-MUDB-152-m01	Entrepreneurial Thinking in the Biosciences	5	B/NB	242
07-MVMINT1-152-m01	Special Subject Studies Biology and Natural Sciences 1	2	B/NB	251
07-MVMINT2-152-m01	Special Subject Studies Biology and Natural Sciences 2	3	NUM	252
07-MVMINT2B-152-m01	Special Subject Studies Biology and Natural Sciences 2B	3	B/NB	253
07-MVMINT3-152-m01	Special Subject Studies Biology and Natural Sciences 3	4	B/NB	254
07-MVMINT4-152-m01	Special Subject Studies Biology and Natural Sciences 4	5	NUM	255
07-MVMINT4B-152-m01	Special Subject Studies Biology and Natural Sciences 4B	5	B/NB	257
07-MVMINT5-152-m01	Special Subject Studies Biology and Natural Sciences 5	6	B/NB	259
07-MV1-152-m01	Special Subject Studies outside Natural Sciences 1	2	B/NB	243
	Special Subject Studies outside Natural Sciences 2	3	NUM	244
07-MV2-152-m01			B/NB	245
07-MV2-152-m01	Special Subject Studies outside Natural Sciences 2B	3	0,110	,
	Special Subject Studies outside Natural Sciences 2B Special Subject Studies outside Natural Sciences 3	3	B/NB B/NB	
07-MV2B-152-m01 07-MV3-152-m01	Special Subject Studies outside Natural Sciences 3	4		246
07-MV2B-152-m01			B/NB	246 247 249

		1	í .	1		
07-DR1-152-m01	Teaching 1	2	B/NB	29		
07-DR2-152-m01	Teaching 2	3	B/NB	30		
07-DR3-152-m01	Teaching 3	4	B/NB	31		
07-DR4-152-m01	Teaching 4	5	B/NB	32		
07-FT1-152-m01	Tutorial 1	3	B/NB	33		
07-FT2-152-m01	Tutorial 2	4	B/NB	34		
07-FT3-152-m01	Tutorial 3	5	B/NB	35		
Additional Laboratory C	ourses and Internships					
07-MSL2-152-m01	Laboratory Course 2	10	B/NB	225		
07-MSL3-152-m01	Laboratory Course 3	15	B/NB	227		
07-MSA2-171-m01	External Internship 2	10	B/NB	214		
07-MSA3-152-m01	External Internship 3	15	B/NB	215		
Thesis (30 ECTS credits)	Thesis (30 ECTS credits)					
07-MT-T-162-m01	Master Thesis Biosciences	25	NUM	241		
07-MT-K-162-m01	Oral Examination Biosciences	5	NUM	234		

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Module title				Abbreviation			
Immun	ology 1	L B			03-MIM1-B-152-m0	1	
Module	e coord	inator		Module offered by	offered by		
Manag biology	-	ector of the Institute of	Virology and Immuno-	Faculty of Medicine	1		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
7	7 (not) successfully completed						
Duratio	Duration Module level Other prerequisites						
1 seme	ster	graduate					
Conten	Its						
ding of http:// logie_b	immur www.vi piologie	ne-mediated defence m irologie.uni-wuerzburg e_master/.	ar immunology as well a nechanisms against info .de/lehrveranstaltunge	ectious diseases. Fo	r more information, p	olease visit	
Intende	ed lear	ning outcomes					
		gain a knowledge of fu Ile to present and discu	ndamental concepts ar iss these.	nd methods in molec	ular and cellular imr	nunology	
Course	s (type	, number of weekly cor	ntact hours, language –	- if other than Germa	ın)		
V (1) + S Module	• •	t in: English					
			language — if other the can be chosen to earn		ition offered — if not	every seme-	
c) oral d) oral e) pres	examin examir entatio		e each (30 to 60 minute o 3 candidates (30 to 6 nd/or English				
Allocat	ion of _l	places					
Additio	onal inf	ormation					
Worklo	ad						
210 h							
Teachi	ng cycl	e					
		e: Winter semester only	 /				
				legree programmes)			
	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in Master's degree (1 major) Biology (2015)							
	-		-				
	Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017)						
	-	ee (1 major) Bioscience					
	-	ee (1 major) Bioscience					
	• •	gram Biosciences (202					
	-	ee (1 major) Bioscience					
master	s degr	ee (1 major) Bioscience	:5 (2024)				
Master's wi	ith 1 majo	r Biosciences (2017)		generated 19-Apr-2025 • ex er (120 ECTS) Biowissenscha		page 15 / 265	

Module title				Abbreviation		
Immune	ology 1	BS			03-MIM1-BS-152-m01	
Module	coord	inator		Module offered by		
Managi biology	-	ector of the Institute of Vi	rology and Immuno-	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
ding of http://v logie_b	immun www.vi iologie	e-mediated defence med rologie.uni-wuerzburg.de _master/.	hanisms against infe	ectious diseases. For	which allow a deeper understan- r more information, please visit _praktika/immunologie/immuno-	
Intende	ed learr	ning outcomes				
		gain a knowledge of fund le to present and discuss		d methods in molec	ular and cellular immunology	
Courses	s (type,	, number of weekly conta	ct hours, language —	- if other than Germa	in)	
S (2) Module	taugh	t in: English				
		-	nguage — if other tha	an German, examina	tion offered — if not every seme-	
		on on whether module ca			·····,···,	
b) log (: c) oral e d) oral e e) prese	15 to 30 examin examin entatio	nination (30 to 60 minut p pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6	s) or	or	
Allocati	ion of p	olaces				
	ī.					
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachin	ng cycl	9				
Teachin	ng cycle	e: Winter semester only				
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
Module	appea	rs in				
Master' Master' Master' Master' Master'	Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)					

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Immun	e title				Abbreviation
Immunology 2 B					03-MIM2-B-152-m01
Module	o coord	linator		Module offered by	
			irology and Immuna	-	
biology	<u>y</u>	ector of the Institute of V	- <i>.</i>	Faculty of Medicine	
ECTS Method of grading Only after succ. compl. of module(s)					
7	<u> </u>	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme		graduate			
Conten					
as auto	oimmui				ected immunology chapters, such , immunogenetics, evolution, in-
Intend	ed lear	ning outcomes			
Studen	nts are	able to understand curre	nt problems in immu	nology and to discus	s these in detail.
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	in)
V (1) + Module		nt in: English			
a) writt b) log (c) oral	ten exa (15 to 3 examir	ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate e	tes, including multiple	e choice questions)	or
e) pres Langua Allocat	entatic age of a t ion of	nation in groups of up to on (20 to 45 minutes) assessment: German and	3 candidates (30 to 6		
e) pres Langua Allocat	entatic age of a t ion of	nation in groups of up to on (20 to 45 minutes) assessment: German and places	3 candidates (30 to 6		
e) pres Langua Allocat	entatic age of a tion of onal inf	nation in groups of up to on (20 to 45 minutes) assessment: German and places	3 candidates (30 to 6		
e) pres Langua Allocat Additic	entatic age of a tion of onal inf	nation in groups of up to on (20 to 45 minutes) assessment: German and places	3 candidates (30 to 6		
e) pres Langua Allocat Additio Worklo	entationage of a straight stra	nation in groups of up to on (20 to 45 minutes) assessment: German and places	3 candidates (30 to 6		
e) pres Langua Allocat Additio Worklo 210 h Teachin	eentatic age of a tion of onal inf oad	nation in groups of up to on (20 to 45 minutes) assessment: German and places	3 candidates (30 to 6		
e) pres Langua Allocat Additio Worklo 210 h Teachin	entatic age of a tion of onal inf oad ng cycl	nation in groups of up to on (20 to 45 minutes) assessment: German and places formation	3 candidates (30 to 6	o minutes) or	
e) pres Langua Allocat Additio Worklo 210 h Teachin	entatic age of a tion of onal inf oad ng cycl	nation in groups of up to on (20 to 45 minutes) assessment: German and places formation le e: Summer semester only	3 candidates (30 to 6	o minutes) or	
e) pres Langua Allocat Additio Worklo 210 h Teachin	entatic age of a tion of onal inf oad ng cycl ed to in	nation in groups of up to on (20 to 45 minutes) assessment: German and places formation e: Summer semester only LPO I (examination regi	3 candidates (30 to 6 l/or English	o minutes) or	
e) pres Langua Allocat Additio 210 h Teachin Teachin Referre Module Master Master	entatic age of a tion of onal inf oad ng cycl ed to in e appea r's degr r's degr	nation in groups of up to on (20 to 45 minutes) assessment: German and places formation e: Summer semester only LPO I (examination regulars ars in ree (1 major) Biology (201 ree (1 major) Biosciences ree (1 major) Biosciences	3 candidates (30 to 6	o minutes) or	
e) pres Langua Allocat Additio 210 h Teachin Teachin Referre Module Master Master Master	entatic age of a tion of onal inf oad ng cycl ed to in e appea r's degr r's degr r's degr	nation in groups of up to on (20 to 45 minutes) assessment: German and places formation e: Summer semester only LPO I (examination regu ars in ree (1 major) Biology (201 ree (1 major) Biosciences ree (1 major) Biosciences ree (1 major) Biosciences	3 candidates (30 to 6 //or English //or En	o minutes) or	
e) pres Langua Allocat Additio 2 210 h Teachin Teachin Referre Master Master Master Master Master	entatic age of a tion of onal inf oad ng cycl ed to in e appea c's degr c's degr c's degr c's degr	nation in groups of up to on (20 to 45 minutes) assessment: German and places formation e: Summer semester only LPO I (examination regulars ars in ree (1 major) Biology (201 ree (1 major) Biosciences ree (1 major) Biosciences	3 candidates (30 to 6 //or English //or En	o minutes) or	

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Module title				Abbreviation
Immunology :	2 BS			03-MIM2-BS-152-m01
Module coord	inator		Module offered by	<u> </u>
	ector of the Institute of Vi	rology and Immuno-	Faculty of Medicine	
biology			raculty of medicine	
ECTS Method of grading Only after succ. compl. of module(s)				
5 (not) successfully completed				
Duration	Module level	Other prerequisites		
1 semester	graduate			
Contents				
as autoimmur				ected immunology chapters, such , immunogenetics, evolution, in-
Intended lear	ning outcomes			
Students are a	able to understand currer	nt problems in immur	ology and to discus	s these in detail.
Courses (type	, number of weekly conta	ict hours, language –	· if other than Germa	n)
S (2)				
Module taugh	t in: English			
	sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
d) oral examir e) presentatio	nation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and, places	3 candidates (30 to 6		
Additional inf	ormation			
Workload				
150 h				
Teaching cycl	e			
Teaching cycle	e: Summer semester only			
<u> </u>	LPOI (examination regu		legree programmes)	
Module appea	ars in			
	ee (1 major) Biology (201	5)		
-	ee (1 major) Biosciences			
-	ee (1 major) Biosciences			
-	ee (1 major) Biosciences			
-	ee (1 major) Biosciences			
-	ee (1 major) Biosciences			
Master's degr	ee (1 major) Biosciences	(2024)		

Clinica	Module title Abbreviation				
					03-MSKVir-171-m01
Modul	e coord	inator		Module offered by	
unknown				Faculty of Medicine	2
			Only after succ. con	· · · ·	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	5	
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
No info	ormatio	n on intended learning o	utcomes available.		
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
V (2)		t in: German and/or Engl			
ster, in	nformat	sessment (type, scope, la ion on whether module c mination (30 to 60 minut	an be chosen to earn	a bonus)	ation offered — if not every seme-
h log l	(1 F to 2)	o pagoc) or		,	01
c) oral d) oral e) pres	examir examir sentatio	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua	examir examir sentatio	nation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua	examir examir sentatio age of a	nation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat	examir examir sentatio age of a tion of	nation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat	examir examir sentatio age of a tion of	nation of one candidate en nation in groups of up to n (20 to 45 minutes) ssessment: German and places	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat	examir examir sentatio age of a tion of p onal inf	nation of one candidate en nation in groups of up to n (20 to 45 minutes) ssessment: German and places	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat Additio	examir examir sentatio age of a tion of p onal inf	nation of one candidate en nation in groups of up to n (20 to 45 minutes) ssessment: German and places	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat Additio Worklo 150 h	examir examir sentatio age of a tion of p onal inf	nation of one candidate en nation in groups of up to in (20 to 45 minutes) issessment: German and places	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat Additio Worklo 150 h	examir examir sentatio age of a tion of p onal inf	nation of one candidate en nation in groups of up to in (20 to 45 minutes) issessment: German and places	3 candidates (30 to 6	s) or	
c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachi 	examir examir sentatic age of a tion of p onal inf oad	nation of one candidate en nation in groups of up to in (20 to 45 minutes) issessment: German and places	3 candidates (30 to 6	es) or so minutes) or	
c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachi 	examir examir sentatic age of a tion of p onal inf oad	e	3 candidates (30 to 6	es) or so minutes) or	
c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachi Referre	examir examir sentatic age of a tion of p onal inf oad	e LPOI (examination regu	3 candidates (30 to 6	es) or so minutes) or	
c) oral d) oral e) pres Langua Allocat Morklo 150 h Teachi Referre Modulo Master Master	examir examir sentatio age of a tion of p onal inf oad ing cycl ed to in e appea r's degr	e LPOI (examination regu	3 candidates (30 to 6 /or English 	es) or so minutes) or	

Module title					Abbreviation
Molecu	ılar Tec	hniques			03-MSMT-152-m01
Module	o coord	inator		Module offered by	
			o (Biolomy)	Faculty of Medicine	
degree programme coordinator Biologie (Biology)ECTSMethod of gradingOnly after succ. c					
ECTS Method of grading Only after succ. compl. of module(s) 3 (not) successfully completed					
Duratio	· · · · ·	Module level	Other prerequisites		
1 seme		graduate			
Contents					
Introduction to new and cutting edge molecular techniques as well as methods for scientific investigation.					
		ning outcomes	· · · ·		
Studen strateg	its are a ies and	able to apply molecular te experimental set-ups to	answer scientific que	estions.	egrate these into experimental
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	an)
S (3) Module	e taugh	t in: English			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
d) oral e) pres	examin entatio	ation of one candidate e ation in groups of up to g n (20 to 45 minutes) ssessment: German and,	3 candidates (30 to 6		
Allocat	ion of p	olaces			
Additio	onal info	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regu	lations for teaching-o	legree programmes)	
Module	e appea	in in			
Master	's degre	ee (1 major) Biology (201	5)		
		ee (1 major) FOKUS Life S			
	-	ee (1 major) Biosciences			
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences ee (1 major) Biosciences			
	-	ee (1 major) Biosciences	-		
musici	5 4651	ce (1 major) Biosciences	(

Module title				Abbreviation	
Molecular Virology				03-MSMV-171-m01	
Module	coord	inator		Module offered by	
unknown Fac			Faculty of Medicine		
ECTS					
10	<u> </u>	rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	unknown			
Conten	ts				
No info	rmatio	n on contents available.			
Intende	ed leari	ning outcomes			
No info	rmatio	n on intended learning ou	utcomes available.		
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
V (1) + 9 Module		t in: German and/or Engl	ish		
		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-
examin prox. 15	ation o 5 minut		prox. 20 minutes) or		tion may be replaced by an oral in groups of 2 candidates (ap-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachir	ng cycl	6			
	<u> </u>				
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
			<u>_</u>		
Module	appea	irs in			
		ee (1 major) Biosciences	(2017)		
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences	(2021)		
		gram Biosciences (2022)	/ \`		
		ee (1 major) Biosciences			
master	Master's degree (1 major) Biosciences (2024)				

Module title Abbreviation				Abbreviation	
Moleci	ular Vir	ology B			03-MSMV-B-171-m01
Modul	e coord	inator		Module offered by	
unknov	wn			Faculty of Medicine	
			Only after succ. con	pl. of module(s)	
7	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
No info	ormatio	n on intended learning o	utcomes available.		
		, number of weekly conta		- if other than Germa	ın)
V (1) +		,			
• •	• •	t in: German and/or Engl	ish		
		sessment (type, scope, la on on whether module c			tion offered — if not every seme-
c) oral d) oral	examin examir	mination (30 to 60 minut ation of one candidate e nation in groups of up to ssessment: German and	ach (30 to 60 minute 3 candidates (30 to 6	s) or	
Allocat	tion of _l	olaces			
Additio	onal inf	ormation			
Worklo	ad				
210 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
			·		
Modul	e appea	urs in			
		ee (1 major) Biosciences	(2017)		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences	(2021)		
	- ,	gram Biosciences (2022)			
		ee (1 major) Biosciences			
		ee (1 major) Biosciences			

Modul	Module title Abbreviation				
Molec	Molecular Virology F1 03-MSMVF1-172-m01				
Module coordinator				Module offered by	<u> </u>
unkno	wn			Faculty of Medicine	
ECTS	Meth	od of grading	Only after succ. con	· · · · ·	
10	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
No info	ormatio	n on intended learning o	utcomes available.		
		, number of weekly conta		- if other than Germa	in)
P (14) ·		,			
	• • •	t in: German and/or Engl	ish		
					ition offered — if not every seme-
ster, ir	nformat	ion on whether module c	an be chosen to earn	a bonus)	
d) oral e) pres	examir sentatio	nation of one candidate e nation in groups of up to on (20 to 45 minutes) Issessment: German and	3 candidates (30 to 6		
Alloca	tion of	places			
Additi	onal inf	ormation			
Worklo	oad				
300 h					
Teachi	ing cycl	e			
Referre	ed to in	LPOI (examination regu	llations for teaching-o	degree programmes)	
		· · · · ·			
Modul	e appea	ars in			
		ee (1 major) Biosciences	(2017)		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
Maste	r's degr	ee (1 major) Biosciences	(2024)		

Modul	Module title Abbreviation				
Molec	Molecular Virology F2 03-MSMVF2-172-m01				
Modul	e coord	inator		Module offered by	
unkno	wn			Faculty of Medicine	
ECTS	Meth	od of grading	Only after succ. com	· · · · ·	
15	(not)	successfully completed			
Durati	on	Module level	Other prerequisites		
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
		n on intended learning o	utcomes available.		
		, number of weekly conta		· if other than Germa	in)
P (29)		······, ····	,		-
		t in: German and/or Engl	ish		
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-
		mination (30 to 60 minut o pages) or	es, including multiple	e choice questions)	or
		ation of one candidate e	ach (30 to 60 minute	s) or	
		nation in groups of up to			
		n (20 to 45 minutes)			
Langua	age of a	ssessment: German and	/or English		
Alloca	tion of _l	places			
Additi	onal inf	ormation			
Worklo	oad				
450 h					
Teachi	ing cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Modul	Module appears in				
Maste	r's degr	ee (1 major) Biosciences	(2017)		
Master	Master's degree (1 major) Biosciences (2018)				
Maste	r's degr	ee (1 major) Biosciences	(2021)		
Maste	r's degr	ee (1 major) Biosciences	(2023)		
Master	r's degr	ee (1 major) Biosciences	(2024)		

Modul	Module title Abbreviation					
Tissue	Tissue Engineering 03-MSTE-171-m01					
Modul	e coord	inator		Module offered by		
unknov	wn			Faculty of Medicine	2	
ECTS	Metho	od of grading	Only after succ. con	· · ·		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	unknown				
Conter	nts					
No info	ormatio	n on contents available.				
Intend	ed lear	ning outcomes				
No info	ormatio	n on intended learning o	outcomes available.			
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	an)	
V (1) +						
Modul	e taugh	t in: German and/or Eng	lish			
		sessment (type, scope, l ion on whether module o			ation offered — if not every seme-	
e) pres Langua	entatio age of a	nation in groups of up to n (20 to 45 minutes) ssessment: German and				
Allocat	tion of _l	DIACES	_			
			_			
Additio	onal inf	ormation				
			-			
Worklo	bad					
300 h						
Teachi	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						
	-	Master's degree (1 major) Biosciences (2017)				
	Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021)					
	-	-	(2018)			
Master	's degr	-	(2018) (2021)			

Module title Abbreviation					
Tissue	Tissue engineering as alternative for animal testing 03-MSTEAT-171-m01				
Module coordinator Module offered					<u></u>
unkno	wn			Faculty of Medicine	
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)	
5	(not)	successfully completed			
Durati	on	Module level	Other prerequisites		
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
No info	ormatio	n on intended learning o	utcomes available.		
		, number of weekly conta		- if other than Germa	in)
S (1) +		,			
• • •	· · ·	t in: German and/or Engl	ish		
					ition offered — if not every seme-
		ion on whether module c mination (30 to 60 minut			
d) oral e) pres	examin sentatio	nation of one candidate e nation in groups of up to n (20 to 45 minutes) Issessment: German and	3 candidates (30 to 6		
Alloca	tion of	places			
Additi	onal inf	ormation	·		
Worklo	oad				
150 h					
Teachi	ing cycl	e			
Referre	ed to in	LPO I (examination regu	lations for teaching-o	legree programmes)	
				<u> </u>	
Module appears in					
Maste	r's degr	ee (1 major) Biosciences	(2017)		
Maste	Master's degree (1 major) Biosciences (2018)				
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
Maste	r's degr	ee (1 major) Biosciences	(2024)		

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Tissue	Module title Abbreviation				
115508	Tissue engineering and regenerative Medicine F1 03-MSTEF1-171-m01				
Module coordinator				Module offered by	<u> </u>
unkno	wn			Faculty of Medicine	e
ECTS	Meth	od of grading	Only after succ. cor	· · · · · · · · · · · · · · · · · · ·	
10	nume	rical grade			
Durati	on	Module level	Other prerequisites	5	
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents availab	ole.		
Intend	led lear	ning outcomes			
No info	ormatio	n on intended learnir	ig outcomes available.		
Course	es (type	, number of weekly co	ontact hours, language –	– if other than Germa	an)
P (14) -	+ S (1)	t in: German and/or I			
Metho	d of as	sessment (type, scop			ation offered — if not every seme-
d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English					
e) pres Langua	sentatio age of a	nation in groups of up on (20 to 45 minutes) assessment: German a			
e) pres Langua Allocat	sentatio	nation in groups of up on (20 to 45 minutes) assessment: German a	to 3 candidates (30 to 6		
e) pres Langua Allocat	sentatio age of a tion of [nation in groups of up on (20 to 45 minutes) ussessment: German a p laces	to 3 candidates (30 to 6		
e) pres Langua Allocat	sentatio age of a tion of [nation in groups of up on (20 to 45 minutes) assessment: German a	to 3 candidates (30 to 6		
e) pres Langua Allocat Additio	sentatio age of a tion of p onal inf	nation in groups of up on (20 to 45 minutes) ussessment: German a p laces	to 3 candidates (30 to 6		
e) pres Langua Allocat Additio	sentatio age of a tion of p onal inf	nation in groups of up on (20 to 45 minutes) ussessment: German a p laces	to 3 candidates (30 to 6		
e) pres Langua Allocat Additio Worklo 300 h	sentatio age of a tion of onal inf	nation in groups of up on (20 to 45 minutes) issessment: German a places	to 3 candidates (30 to 6		
e) pres Langua Allocat Additio Worklo 300 h	sentatio age of a tion of p onal inf	nation in groups of up on (20 to 45 minutes) issessment: German a places	to 3 candidates (30 to 6		
e) pres Langua Allocat Additio Worklo 300 h Teachi	sentatic age of a tion of onal inf oad	nation in groups of up on (20 to 45 minutes) issessment: German a places formation	o to 3 candidates (30 to 6	50 minutes) or	
e) pres Langua Allocat Additio Worklo 300 h Teachi	sentatic age of a tion of onal inf oad	nation in groups of up on (20 to 45 minutes) issessment: German a places formation	to 3 candidates (30 to 6	50 minutes) or)
e) pres Langua Allocat Additio Worklo 300 h Teachi Referro	sentatio age of a tion of onal inf oad ing cycl ed to in	nation in groups of up on (20 to 45 minutes) issessment: German a places formation e LPO I (examination i	o to 3 candidates (30 to 6	50 minutes) or)
e) pres Langua Allocat Additio Worklo 300 h Teachi Referro Modul	sentatio age of a tion of p onal inf oad ing cycl ed to in	ation in groups of up on (20 to 45 minutes) issessment: German places formation e LPO I (examination i ars in	e to 3 candidates (30 to 6	50 minutes) or)
e) pres Langua Allocat Additio Worklo 300 h Teachi Referro Modul Master	ed to in eappear	e (1 major) Bioscien	e to 3 candidates (30 to 6 and/or English	50 minutes) or)
e) pres Langua Allocat Additio 300 h Teachi Referro Modul Master Master	ed to in e appea r's degr	ation in groups of up on (20 to 45 minutes) issessment: German a places formation e LPO I (examination i ars in ee (1 major) Bioscien ee (1 major) Bioscien	e to 3 candidates (30 to 6 and/or English regulations for teaching- ces (2017) ces (2018)	50 minutes) or)
e) pres Langua Allocat Additio Worklo 300 h Teachi Referro Modul Master Master Master	sentatic age of a tion of p onal inf oad ing cycl ed to in r's degr r's degr r's degr	e (1 major) Bioscien	e to 3 candidates (30 to 6 and/or English regulations for teaching- ces (2017) ces (2018) ces (2021)	50 minutes) or	

Module title Abbreviation						
Tissue	Tissue engineering and regenerative Medicine F2 03-MSTEF2-171-m01					
Module coordinator Module offered by					<u> </u>	
unkno	wn			Faculty of Medicine	2	
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)		
15	(not)	successfully completed				
Durati	on	Module level	Other prerequisites			
1 seme	ester	unknown				
Conte	nts					
No info	ormatio	n on contents available.				
Intend	led lear	ning outcomes				
		n on intended learning o	utcomes available			
		, number of weekly conta		if other than Germa	an)	
P (29)		, number of weekly conte			****	
		t in: German and/or Engl	ish			
		_		an German, examina	ation offered — if not every seme-	
		ion on whether module c				
d) oral e) pres Langua	examir sentatio age of a	nation of one candidate e nation in groups of up to n (20 to 45 minutes) Issessment: German and	3 candidates (30 to 6			
Alloca	tion of	places				
Additi	onal inf	ormation				
Workle	oad					
450 h						
Teachi	ing cycl	e				
Referr	ed to in	LPO I (examination regu	lations for teaching-o	legree programmes))	
				<u> </u>		
	e appea	ars in				
		ee (1 major) Biosciences	(2017)			
	Master's degree (1 major) Biosciences (2017)					
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences				
Maste	r's degr	ee (1 major) Biosciences	(2024)			

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Module title Abbreviation					
Teachi	Teaching 1 07-DR1-152-m01				
Module	coord	inator		Module offered by	<u> </u>
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	<u> </u>	od of grading	Only after succ. con	•	
2	(not)	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
ganisin	g cour		contents and organi		udents or pupils. Students or- ee programme coordinator. The
Intende	ed lear	ning outcomes			
Ability	to inde	pendently organise, plan	and deliver courses.		
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
		t in: German and/or Engl night also be offered in V			
ster, in Succes	format sful co	ion on whether module ca mpletion as certified by t	an be chosen to earn he lecturer		tion offered — if not every seme-
		ssessment: German and,	or English		
Allocat	ion of	places			
		-•			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Module appears in					
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)					
Master	's degr	ee (1 major) Biosciences	(2024)		

Module title Abbreviation					
Teachi	1g 2				07-DR2-152-m01
Module	e coord	inator		Module offered by	<u> </u>
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS		od of grading	Only after succ. con		
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Studen	ts orga		e advice on contents		Bachelor's students or pupils. om the degree programme coor-
Intende	ed lear	ning outcomes			
Ability	to inde	pendently organise cours	ses.		
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
		t in: German and/or Engl night also be offered in V			
ster, in Succes	formati sful co	sessment (type, scope, la ion on whether module ca mpletion as certified by t ssessment: German and,	an be chosen to earn he lecturer		tion offered — if not every seme-
Allocat					
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-	degree programmes)	
			Ξ		
Module	e appea	ars in			
Master Master Master Master Master	's degr 's degr 's degr 's degr 's degr	ee (1 major) Biology (2019 ee (1 major) Biosciences ee (1 major) Biosciences	(2016) (2017) (2018) (2021) (2023)		

Module	Module title Abbreviation					
Teachi	1g 3				07-DR3-152-m01	
Module	coord	inator		Module offered by	<u> </u>	
		mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS		od of grading	Only after succ. com			
4		successfully completed		•		
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
ganisin	g cours		contents and organi		udents or pupils. Students or- ree programme coordinator. The	
Intende	ed lear	ning outcomes				
Ability	to inde	pendently organise cours	ses.			
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	in)	
		t in: German and/or Engl night also be offered in V				
ster, in Succes	formati sful co	on on whether module ca mpletion as certified by t	an be chosen to earn he lecturer		tion offered — if not every seme-	
		ssessment: German and,	or English			
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
120 h						
Teachir	ıg cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
Module appears in						
Master Master Master Master Master	Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)					

Module	title			Abbreviation	
Teaching	<u>3</u> 4			07-DR4-152-m01	
Modulo	coordinator		Module offered by		
		alaria (Dialarri)			
	rogramme coordinator Bi		Faculty of Biology		
	Method of grading (not) successfully comple	Only after succ. cor	npl. of module(s)		
Duration		Other prerequisites	course advisory serv	vico in advanco	
Contents					
ganising		ce on contents and organ		udents or pupils. Students or- ree programme coordinator. The	
Intended	l learning outcomes				
Ability to	independently organise	courses.			
	·	contact hours, language –	- if other than Germa	n)	
S (3)	· · · · · · · · · · · · · · · · · · ·				
Module t	taught in: German and/or ype: might also be offered				
				tion offered — if not every seme-	
· · ·		ule can be chosen to earn	a bonus)		
	ful completion as certified				
	e of assessment: German	and/or English			
Allocatio	on of places				
	-1				
Addition	al information				
Workloa	d				
150 h	u				
Teaching					
Referred	to in LPO I (examination	regulations for teaching-	degree programmes)		
	•				
	appears in	· · · ·			
	degree (1 major) Biology	-			
	degree (1 major) Bioscier				
		ium MINT Teacher Educat ner Education PLUS, Elite			
••	,		NELWOIK DAVAIIA (EN	(2010)	
Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018)					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)					
		ner Education PLUS, Elite			
	degree (1 major) Bioscier		· ·	-	
	degree (1 major) Bioscier				
Master's	degree (1 major) Bioscier	1ces (2024)			
		ium MINT Teacher Educat			
Supplem	ientary course MINT Teacl	ner Education PLUS, Elite	Network Bavaria (EN	Б Ј (2025)	

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Module title					Abbreviation
Tutorial 1					07-FT1-152-m01
Module coordinator				Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	<u> </u>	od of grading	Only after succ. com		
3		successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
		tors, students will mento s, in particular exercises.		ng courses in particu	ılar and will help organise and
Intende	ed learr	ning outcomes			
ence supervising a group and helping students with personal matters. The tutors have thus enhanced their own interpersonal skills and know how to share their expertise in exploring complex topics. In addition, the tutors have learned to plan and organise key elements of their own university education and the university education of the students they mentor. Courses (type, number of weekly contact hours, language — if other than German)					
	s (type	, number of weekly collid	ier nours, tallguage –		an <i>)</i>
T (2) Module	taugh	t in: German and/or Engl	ish		
Method	d of ass		nguage — if other tha		tion offered — if not every seme-
-		mpletion as certified by t			
		ssessment: German and,			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Biology (2015)					
Master's degree (1 major) Biosciences (2016)					
Master's degree (1 major) Biosciences (2017)					
Master's degree (1 major) Biosciences (2018)					
Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)					
mastel	Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)				

Module title					Abbreviation	
Tutorial 2					07-FT2-152-m01	
Module coordinator				Module offered by		
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS	· · · · · · · · · · · · · · · · · · ·	od of grading	Only after succ. com	· · · · · · · · · · · · · · · · · · ·		
4		successfully completed				
Duratio	n	Module level	Other prerequisites	Other prerequisites		
1 seme	ster	undergraduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
		tors, students will mento s, in particular exercises.		ng courses in particu	ılar and will help organise and	
Intende	ed learr	ning outcomes				
ve learn the stu	ned to p dents t		ements of their own u	niversity education	topics. In addition, the tutors ha- and the university education of	
T (2)		,				
• •	e taugh	t in: German and/or Engl	ish			
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
		mpletion as certified by t ssessment: German and,				
Allocat						
	· · · ·					
Additio	nal info	ormation				
Worklo	ad					
120 h						
Teachi	ng cycl	e	·			
	.3	-				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biology (2015)						
Master's degree (1 major) Biosciences (2016)						
Master's degree (1 major) Biosciences (2017)						
Master's degree (1 major) Biosciences (2018)						
Master's degree (1 major) Biosciences (2021)						
	Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)					
master	s uegre	ee (1 major) Biosciences	(2024)			

Module title					Abbreviation
Tutorial 3					07-FT3-152-m01
Module coordinator				Module offered by	
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology	
ECTS	ŕ – – – –	od of grading	Only after succ. com	, 0,	
5		successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Please consult with	course advisory ser	vice in advance.
Conten	ts				
		tors, students will mento s, in particular exercises.		ng courses in particu	ılar and will help organise and
Intende	ed learı	ning outcomes			
ve learn the stu	ned to j dents t		ements of their own u	niversity education	topics. In addition, the tutors ha- and the university education of
	s (type)	, number of weekly colld	ict nours, language –		411 <i>)</i>
T (3) Module	taugh	t in: German and/or Engl	ish		
				an German, examina	tion offered — if not every seme-
ster, in	formati	on on whether module ca	an be chosen to earn		
		mpletion as certified by t ssessment: German and,			
Allocat					
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
-					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Biology (2015)					
Master's degree (1 major) Biosciences (2016)					
Master's degree (1 major) Biosciences (2017)					
Master's degree (1 major) Biosciences (2018)					
Master's degree (1 major) Biosciences (2021)					
	Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)				
master	s uegr	ee (1 major) Biosciences	(2024)		

Module title				Abbreviation		
Agroecology			07-MAGRE-152-m01			
Module coordinator				Module offered by		
holder	of the (Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
2	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
benefic vention conserv	ial org ally fai vation-	anisms-interactions, and rmed agricultural land (pl related agricultural areas	biological pest contr ant diversity, herbive	ol. Experiment in co ore, predator, pollina	nunities in different crops, pest- mparison of organically and con- tor diversity). Field trip to nature of agri-environmental measures.	
Intende	ed lear	ning outcomes				
munitie perform	The students will acquire knowledge about the species diversity, structure and functional role of arthropod com- munities in agricultural ecosystems. They will be able to perform scientific work in agricultural ecosystems, to perform statistical analyses, and to interpret the results. They will be familiar with problems and possible soluti- ons in agricultural ecosystems in the context of a sustainable use of biodiversity and ecosystem services.					
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
Ü (3) Module	e taugh	t in: German and/or Engli	ish			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
 a) written examination (approx. 30 to 60 minutes, including multiple choice questions) or b) log (approx. 15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (approx. 20 to 45 minutes) Language of assessment: German and/or English 						
Allocation of places						
Additional information						
Workload						
60 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biology (2015)						
Master's degree (1 major) Biosciences (2016)						
Master's degree (1 major) Biosciences (2017)						

Module	e title				Abbreviation	
Bioinfo	ormatics	5 B			07-MBI-B-152-m01	
Modul	e coord	inator		Module offered by		
				-		
	<u> </u>	Chair of Bioinformatics	Out offer and an	Faculty of Biology		
ECTS		od of grading successfully completed	Only after succ. con	npl. of module(s)		
5	<u> </u>	- , ,				
Duration		Module level graduate	Other prerequisites			
Conten		graduate				
		current results of biou	nformatics are explaine	d and discussed thi	is includes results fr	om genome
and se	quence	analysis, protein dom	ains and protein famili of different functional	es, large-scale data a	analysis (e. g. net ge	
		ning outcomes				
Unders	stand re	cent results in bioinfo	matics. Discuss their in earch questions in bio		advanced (Master)	level know-
Course	s (type	number of weekly cor	itact hours, language –	- if other than Germa	n)	
V (2)						
	e taugh	t in: German and/or Er	glish			
			language — if other th can be chosen to earn		tion offered — if not	every seme-
-			utes, including multipl	·	or	
			each (30 to 60 minute			
			o 3 candidates (30 to 6	o minutes)		
Langua	age of a	ssessment: German ar	nd/or English			
Allocat	tion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
150 h						
-	ng cycl	9				
	0.7	-				
Referre	d to in	IPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	rs in				
		ee (1 major) Biology (20	215)			
	-	ee (1 major) Biomedici				
	-	ee (1 major) Mathemat				
	-	-	onal Mathematics (201	6)		
Master	's degre	ee (1 major) Bioscience	es (2016)			
Master	's teach	ning degree Gymnasiu	n MINT Teacher Educat	ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
		•	Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Biomedici				
	-	ee (1 major) Bioscience		0)		
	-	ee (1 major) Computati	onal Mathematics (201 ics (2010)	9)		
Master's w	ith 1 major	Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschat	-	page 37 / 265

UNIVERSITÄT WÜRZBURG

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

exchange program Biosciences (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 38 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title Abbreviation			Abbreviation			
Endog	enous C	locks B			07-MECB-152-m01	
Modul	e coord	inator		Module offered by		
	of the C	Chair of Neurobiology a	nd Genetics	Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	<u> </u>	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme	I	graduate				
neuron clocks be exp	iction ir Ial orga and the lained f	nto endogenous clocks nisation of the clock in e underlying mechanisn now clocks adjust to a 2 will also be discussed.	the brain of mammals ns will be discussed or	and insects. The bio In the molecular, cellu	logical functions of lar and organismic	endogenous levels. It will
		ning outcomes				
The stu	The students learn fundamental principles underlying chronobiology/endogenous clocks and obtain an insight into current research in the field.					
Courses (type, number of weekly contact hours, language — if other than German)						
V (2) Module	e taugh	t in: English				
		essment (type, scope, on on whether module			tion offered — if not	every seme-
d) oral Studer Langua	examin nts will l	ation of one candidate lation in groups of up to be informed about the r ssessment: German an blaces	9 3 candidates (30 to 6 nethod, length and sc	o minutes)	nt prior to the cours	e.
Additio	onal info	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	ulations for teaching-	degree programmes)		
Module appears in						
Master Supple Master Master Supple Master Master	's teach ementar 's degro 's degro 's teach ementar 's degro	ee (1 major) FOKUS Life ning degree Gymnasium y course MINT Teacher ee (1 major) Biosciences ee (1 major) Biosciences ning degree Gymnasium y course MINT Teacher ee (1 major) Biosciences	n MINT Teacher Educat Education PLUS, Elite 5 (2017) 5 (2018) n MINT Teacher Educat Education PLUS, Elite 5 (2021) 5 (2023)	Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016) ork Bavaria (ENB) (24 B) (2020)	020)
Master's w	ith 1 major	Biosciences (2017)	-	er (120 ECTS) Biowissenschat	-	page 39 / 265

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 40 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation	
Entrepreneurial Managemen	t in the Bi	osciences		07-MEMB-152-m01	
Module coordinator			Module offered by		
Coordinator BioCareers			Faculty of Biology		
ECTS Method of grading		Only after succ. con	npl. of module(s)		
10 (not) successfully co	npleted				
Duration Module level		Other prerequisites			
1 semester graduate					
Contents					
Overview of the bioscience so and technologies, recent dev stries, legal framework, finan hed companies, criteria of pr ject work in interdisciplinary cal relevance.	elopment cing and l oject-base	s and trends in estab business models, bes ed work, characteristi	lished as well as up st practice examples cs and elements of p	and-coming high-te of start-ups as well project work, case st	ch indu- as establis- udies, pro-
Intended learning outcomes					
Students have acquired an ir ar with the characteristics of start-up companies and up-a sed work and have gained ex what approaches or methods experience of interdisciplinat skills.	industries nd-comin perience from ind	and established bus g technologies. Stude working in interdiscip ividual disciplines are	sinesses as well as w ents are also familian olinary teams. They a e most suitable for se	vith specific character with the criteria of pre- re better qualified to olving a particular pr	eristics of project-ba- p evaluate roblem. The
Courses (type, number of we	ekly conta	ict hours, language –	- if other than Germa	n)	
S (2) Module taught in: German ar	d/or Engl	ish			
Method of assessment (type ster, information on whether				tion offered — if not	every seme-
a) written examination (30 to b) log (15 to 30 pages) or c) oral examination of one ca d) oral examination in groups e) presentation (20 to 45 min Language of assessment: Ge	ndidate e of up to j utes)	ach (30 to 60 minute 3 candidates (30 to 6	s) or	Dr	
Allocation of places					
Additional information					
Workload		-			
300 h					
Teaching cycle					
Referred to in LPO I (examin	ation regu	lations for teaching-	legree programmes)		
Module appears in					
Master's degree (1 major) Bio	logv (201	5)			
Master's degree (1 major) Bio		-			
Master's degree (1 major) Bio					
Master's with 1 major Biosciences (2017)		-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	-	page 41 / 265

Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 42 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Neuron	e title			Abbreviation	
	nodulation and Neuronal Dev	elopment B		07-MENMNDB-152-	m01
Module	coordinator		Module offered by		
		and Consting	-		
ECTS	of the Chair of Neurobiology a Method of grading	Only after succ. con	Faculty of Biology		
	(not) successfully completed				
5					
Duratio		Other prerequisites			
Conten					
aptic tra stems u biology ronal p	nodulation: cellular and mole ansmission and membrane p used to study modulation of r 7. Focus is on the establishme recursors, neuronal growth, c ed learning outcomes	otential, theoretical an neuronal circuits. Funda ent of the neuroectoder	d functional aspects mental principles of n, pattern generation	of neuromodulation molecular developn and regional speci	, model sy- nental neuro- fication, neu-
			madulation and no	wanal davalanmant	and abtain
	idents learn fundamental prin ght into current research in th		phodulation and net	aonai development	anu odtain
	s (type, number of weekly cor		- if other than Germa	n)	
V (3)	a type, number of weekly col	The inverse language			
	e taught in: English				
ster, inf	d of assessment (type, scope formation on whether module en examination (30 to 60 min	e can be chosen to earn	a bonus)		every seme-
Studen Langua	examination in groups of up t ts will be informed about the ge of assessment: German a ion of places	method, length and sc		nt prior to the cours	e.
Additio	nal information				
 Worklo					
WORKIO					
150 h		· · · · · · · · · · · · · · · · · · ·			
150 h Teachir	ng cycle				
150 h Teachir	ng cycle				
Teachir		gulations for teaching	degree programmoc)		
Teachir	ng cycle ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
Teachir Referre 	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
Teachir Referre Module	ed to in LPO I (examination re		degree programmes)		
Teachir Referre Module Master	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2	015)	degree programmes)		
Teachir Referre Module Master ¹ Master ¹	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2 's degree (1 major) FOKUS Life	015) e Sciences (2015)	degree programmes)		
Teachir Referre Module Master' Master' Master'	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2 's degree (1 major) FOKUS Life 's degree (1 major) Bioscience	015) e Sciences (2015) es (2016)		ork Bayaria (FNR) (2)	016)
Teachir Referre Module Master' Master' Master'	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2 's degree (1 major) FOKUS Life 's degree (1 major) Bioscience 's teaching degree Gymnasiu	015) e Sciences (2015) es (2016) m MINT Teacher Educat	ion PLUS, Elite Netwo		016)
Teachir Referre Master' Master' Master' Supple	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2 's degree (1 major) FOKUS Life 's degree (1 major) Bioscience	015) e Sciences (2015) es (2016) m MINT Teacher Educat r Education PLUS, Elite	ion PLUS, Elite Netwo		016)
Teachir Referre Module Master ¹ Master ¹ Master ¹ Master ¹ Supple Master ¹	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2 's degree (1 major) FOKUS Life 's degree (1 major) Bioscience 's teaching degree Gymnasiu mentary course MINT Teache	015) e Sciences (2015) es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017)	ion PLUS, Elite Netwo		016)
Teachir Referre Module Master' Master' Master' Master' Master' Master' Master' Master' Master' Master'	ed to in LPO I (examination re e appears in 's degree (1 major) Biology (2 's degree (1 major) FOKUS Life 's degree (1 major) Bioscience 's teaching degree Gymnasiu mentary course MINT Teache 's degree (1 major) Bioscience	015) e Sciences (2015) es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017) es (2018) m MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	

Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Module	Module title				Abbreviation	
Experir	nental	Sociobiology B			07-MESB-152-m01	
Module	e coord	inator		Module offered by		
holder logy	ofthe	Chair of Behavioral Phys	iology and Sociobio-	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	pl. of module(s)		
7		successfully completed				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten						
neurob	iologic sion, s	ighlight the diversity an al and behavioural mec tudents will deepen the ure.	hanisms underlying th	e organisation of so	cial groups. In a foll	ow-up semi-
Intende	ed lear	ning outcomes				
ral biol	ogy. St re able	erstand the value of an i udents are able to recog to formulate scientific q epth.	gnise and interpret rela	ationships between v	various aspects of s	ociobiology.
Course	s (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
V (2) +	S (1)	t in: English			,	
		sessment (type, scope, l		an German, examina	tion offered — if not	every seme-
		ion on whether module				every senie-
b) log (c) oral d) oral e) pres	15 to 3 examir examir entatio	mination (30 to 60 minu o pages) or nation of one candidate nation in groups of up to on (20 to 45 minutes) ussessment: German and	each (30 to 60 minute 9 3 candidates (30 to 6	s) or	Dr	
Allocat	ion of	places				
Additio	nal inf	ormation				
Additio						
Worklo	ad					
210 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	ulations for teaching-o	degree programmes)		
Module	e appea	ars in				
		ee (1 major) Biology (20	15)			
	-	ee (1 major) Biosciences	-			
	-	hing degree Gymnasium		ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)
		ry course MINT Teacher I				
Master	's degr	ee (1 major) Biosciences	5 (2017)			
Master	's degr	ee (1 major) Biosciences	5 (2018)			
Master	's teac	hing degree Gymnasium	MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)
Master's w	ith 1 majo	r Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	-	page 45 / 265

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 46 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	title				Abbreviation	
Ecology	y and T	axonomy of Insects			07-METI-152-m01	
Module	coord	inator		Module offered by		
		Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology		
ECTS		od of grading	Only after succ. com			
3		rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
ledge o and fiel dition,	f speci ld work compil	al form is provided. Obse on ecological or behavio	ervation and recording our biological charact and niche differentia	g of arthropods in ha eristics of the respe ation. The aim is to l	ropods, especially insects. Know- abitat. Experimental laboratory ctive groups of arthropods. In ad- ink the phylogenetic and morpho-	
Intende	ed learr	ning outcomes				
to apply	y speci		well as to record and	evaluate special bel	or insect orders. They will be able haviours. They will be able to de- cudies.	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	in)	
Ü (5) Module	e taugh	t in: German and/or Engl	ish			
		essment (type, scope, la on on whether module ca			ition offered — if not every seme-	
b) log (a c) oral e d) oral e) prese	approx examin examin entatio	nination (approx. 30 to 6 . 15 to 30 pages) or ation of one candidate e ation in groups of up to 3 n (approx. 20 to 45 minu ssessment: German and	ach (30 to 60 minute: 3 candidates (30 to 6 tes)	s) or	estions) or	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
90 h						
Teachir	ng cycl	9				
	- / -					
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
				<u> </u>		
Module	appea	irs in				
Master' Master'	's degre	ee (1 major) Biology (201 ee (1 major) Biosciences ee (1 major) Biosciences	(2016)			

Module	e title				Abbreviation
Forest	Ecology	/			07-MFEC-152-m01
Module	e coord	inator		Module offered by	
holder	of the (Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
2	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
terns a	nd fund				of management on diversity pat- ems and work of determination as
Intende	ed learı	ning outcomes			
nities in terns o	n forest f comm	s. On the basis of completion of the basis of completion of the basis of completion of the basis	ex data sets, they wil he course will also di	l learn to analyse an scuss associated co	tional role of arthropod commu- d discuss the structuring pat- nservation-related aspects.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)
Ü (3) Module	e taugh	t in: German and/or Engli	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral d) oral e) pres	approx examin examin entatio	nination (approx. 30 to 6 . 15 to 30 pages) or ation of one candidate en ation in groups of up to 3 n (approx. 20 to 45 minu ssessment: German and	ach (30 to 60 minute: 3 candidates (30 to 6 tes)	s) or	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	irs in			
Master	's degr	ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences			
Mactor	's dear	ee (1 major) Biosciences	(2017)		

Module title				Abbreviation	
Quality Assu	Irance, Good Practice, B	iosafety and Biosecuri	ty	07-MGLN-152-m01	
Module coor	dinator		Module offered by	<u> </u>	
Coordinator	BioCareers		Faculty of Biology		
	hod of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
	erical grade				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
practices. DI	of Good Practice in the L N en iso 9000-9004 sta Management concepts i	ndards, environmental			
Intended lea	rning outcomes				
standards in environment Courses (typ	s are aware of several reg the Bioscientific contex tal context and industry. he, number of weekly cor	t. Furthermore, they de	al with management	concepts in the field	
V(1) + S(1) Module taug	ht in: German and/or En	ølish			
Method of a	ssessment (type, scope, ation on whether module	language — if other th		ition offered — if not	every seme-
	amination (30 to 60 min assessment: German ar		e choice questions)		
Allocation of					
	•				
Additional in	nformation				
Additionatin					
Workload					
150 h					
Teaching cy					
	cle: summer semester				
Referred to i	n LPO I (examination re	gulations for teaching-	degree programmes)		
Module app	ears in				
Master's deg	gree (1 major) Biology (20	015)			
Master's deg	gree (1 major) Bioscience	es (2016)			
	ching degree Gymnasiur				016)
••	ary course MINT Teacher		Network Bavaria (EN	B) (2016)	
-	gree (1 major) Bioscience				
-	gree (1 major) Bioscience				`
Supplement Master's deg	ching degree Gymnasiur ary course MINT Teacher gree (1 major) Bioscience gree (1 major) Bioscience	Education PLUS, Elite es (2021)			020)
-	gree (1 major) Bioscience	•			
Master's tea	ching degree Gymnasiur				025)
Supplement	ary course MINT Teacher	Education PL03, Elite	NELWOIK DAVAIIA (EIN	B) (2025)	

	e title			-	Abbreviation
Gene R	Regulati	ion and Signal Transduct	tion		07-MGRSD-152-m01
Module	e coord	inator		Module offered by	
Dean o	of Studio	es Biologie (Biology)		Faculty of Biology	
		Only after succ. con			
3	-	successfully completed			
Duratio	<u> </u>	Module level	Other prerequisites	vo su isitas	
1 seme		graduate			
		giadaate			
Conten	-				
discus	sed. Th	e lecture will discuss reg	ulatory mechanisms	on the transcription	bacteria will be described and al and post transcriptional level. na in pathogenic bacteria.
Intend	ed lear	ning outcomes			
061020	oo) and		ikrobiologie/Infektion	<i>sbiologie</i> (Microbio	<i>lecular Biology</i> , course no. logy/Infection Biology, course n
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
V (1) Module	e taugh	t in: German and/or Engl	lish		
			lijii		
ster, in	formati	sessment (type, scope, la ion on whether module c	anguage — if other tha an be chosen to earn	a bonus)	
ster, in a) writt c) oral d) oral	formati en exar examin examir	sessment (type, scope, la	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua	formati en exar examin examir	sessment (type, scope, la ion on whether module c mination (30 to 60 minut ation of one candidate e nation in groups of up to ssessment: German and	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua	formati en exar examin examir age of a	sessment (type, scope, la ion on whether module c mination (30 to 60 minut ation of one candidate e nation in groups of up to ssessment: German and	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua Allocat	formati en exar examin examir age of a tion of p	sessment (type, scope, la ion on whether module c mination (30 to 60 minut ation of one candidate e nation in groups of up to ssessment: German and	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua Allocat	formati en exar examin examir age of a tion of p	sessment (type, scope, la ion on whether module c mination (30 to 60 minut nation of one candidate e nation in groups of up to ssessment: German and places	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua Allocat Additic	formati en examin examin examir age of a tion of p	sessment (type, scope, la ion on whether module c mination (30 to 60 minut nation of one candidate e nation in groups of up to ssessment: German and places	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua Allocat Additic Worklo	formati en examin examin examir age of a tion of p	sessment (type, scope, la ion on whether module c mination (30 to 60 minut nation of one candidate e nation in groups of up to ssessment: German and places	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua Allocat Additic Worklo 90 h	formati en examin examin examir age of a tion of p onal info pad	sessment (type, scope, la ion on whether module c mination (30 to 60 minut lation of one candidate e hation in groups of up to issessment: German and places	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt c) oral d) oral Langua Allocat Additic Worklo 90 h	formati en examin examin examir age of a tion of p	sessment (type, scope, la ion on whether module c mination (30 to 60 minut lation of one candidate e hation in groups of up to issessment: German and places	anguage — if other the an be chosen to earn ces, including multiple ach (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	ation offered — if not every seme or
ster, in a) writt c) oral d) oral Langua Allocat Morklo 90 h Teachi 	formati en examin examin examir age of a tion of p onal info pad	e	anguage — if other tha an be chosen to earn tes, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Morklo 90 h Teachi 	formati en examin examin examir age of a tion of p onal info pad	sessment (type, scope, la ion on whether module c mination (30 to 60 minut lation of one candidate e hation in groups of up to issessment: German and places	anguage — if other tha an be chosen to earn tes, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Additio Worklo 90 h Teachi Referre	formati en examin examin examir age of a tion of p onal info pad	e LPOI (examination regu	anguage — if other tha an be chosen to earn tes, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Modulo Referre Modulo	formati en examin examin examir age of a tion of p onal info pad ng cycl ed to in e appea	e LPOI (examination regu	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Additic Worklo 90 h Teachi Referre Modulo	formati en examin examin examir age of a tion of p onal info onal info onal info ed to in e appea	e LPOI (examination regu	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English ulations for teaching-o	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Additio Worklo 90 h Teachi Referre Master Master	formati en examin examin examir age of a tion of p onal info onal info oad ad ed to in e appea	e e (1 major) Biology (201	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English ulations for teaching-o	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Modulic Worklo 90 h Teachi Referre Master Master Master	formati en examin examin age of a tion of p onal info pad ng cycl ed to in e appea d's degru	e E E E E E E E E E E E E E E E E E E E	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English 	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Additic Worklo 90 h Teachi Referre Master Master Master Master	formati en examin examin age of a tion of p onal info onal info on	e LPO I (examination regu ars in e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biosciences e	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English 	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Additic 90 h Teachi Referre Module Master Master Master Master Master	formati en examin examin examir age of a tion of p onal info onal info o info info info info info info info info	e LPOI (examination regulars e (1 major) Biology (201 e (1 major) Biosciences e (1 major) Biosciences e (1 major) Biosciences e (1 major) Biosciences	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English 	a bonus) e choice questions) s) or o minutes)	or
ster, in a) writt c) oral d) oral Langua Allocat Worklo 90 h Teachi Referre Master Master Master Master Master Master exchar	formati ien examin examin examin age of a tion of p onal info onal info o info info info info info info info info	e LPO I (examination regu ars in ee (1 major) Biology (201 ee (1 major) Biosciences	anguage — if other the an be chosen to earn res, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English ulations for teaching-out 5) (2016) (2017) (2018) (2021)	a bonus) e choice questions) s) or o minutes)	or

Module	e title				Abbreviation
Brain a	nd Min	d			07-MGUG-152-m01
Module	Module coordinator			Module offered by	
Coordir	nator Bi	ioCareers		Faculty of Biology	
ECTS		od of grading	Only after succ. com		
3		successfully completed		E	
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
sion ma	aking a				human memory, intentional deci- Fundamental terms and princip-
Intende	ed learr	ning outcomes			
awaren	ess of		terms and definitions		hey have developed an increasec and concerns arising with know-
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	in)
S (2) Module	e taugh	t in: German and/or Engl	ish		
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral e d) oral e e) prese	15 to 30 examin examin entatio	nination (30 to 60 minut p pages) or ation of one candidate e lation in groups of up to g n (20 to 45 minutes) ssessment: German and,	ach (30 to 60 minute: 3 candidates (30 to 6	s) or	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
Module	appea	ars in			
Master	's degre	ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences			
		ee (1 major) Biosciences			
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
		ee (1 major) Biosciences ee (1 major) Biosciences			
master	s uegre	ee (1 major) biosciences	(2024)		

Master's with 1 major Biosciences (2017)	
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Modul	e title				Abbreviation
Ecolog	y of Ho	ney Bees and Wild Bees			07-MHWB-152-m01
Modul	Module coordinator			Module offered by	<u> </u>
holder	of the (Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology	
ECTS	1	od of grading	Only after succ. com	pl. of module(s)	
3	nume	rical grade			
Duration Module level Other prerequisites					
1 seme	ster	graduate			
Conten	Its				
ment, l sis, for	breedin aging b	g, diseases); resource us	se of honeybees and axonomy of wild bees	wild bees (bee danc , opponents of bees	of beekeeping (colony manage- es, flower visiting, pollen analy- s, wild bees in different habitats
Intend	ed lear	ning outcomes			
ween b	ees an	d plants, and on aspects	of nature conservation	on. They will be profi	d honeybees, on interactions bet icient in experimental methods o determination of wild bees.
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	in)
Ü (5) Module	e taugh	t in: German and/or Engl	ish		
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral d) oral e) pres	(approx examin examir entatio	mination (approx. 30 to 6 . 15 to 30 pages) or ation of one candidate e nation in groups of up to 3 n (approx. 20 to 45 minu ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6 tes)	s) or	estions) or
Allocat	tion of p	olaces			
Additic	onal inf	ormation			
Worklo	ad				
90 h					
-	ng cycl	e			
	<u> </u>				
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Modul	e appea	ors in			
mouul			>		
	's daar	ee (1 maior) Riology (201)			
Master	-	ee (1 major) Biology (201) ee (1 major) Biosciences			

Module title			Abbreviation			
Animal Communication B				07-MKB-152-m01		
Module coordinator				Module offered by	<u> </u>	
		Chair of Behavioral Phy	siology and Sociobio-	Faculty of Biology		
logy						
ECTS		od of grading	Only after succ. con	npl. of module(s)		
7	(not)	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conter	nts					
		leal with physiological als, but also highlight a				channels
Intend	ed lear	ning outcomes				
learne logical sent ar	d to con condit nd disc	erstand the value of an nnect findings from diff ions, in order to gain a uss current scientific pu	erent research areas, s more complete picture ublications within a bro	uch as physiology, n of a topic. In additio pader theoretical fran	eurobiology, behavi n, students have lea nework.	iour and eco-
V (2) +		, number of weekly cor	itact ilouis, laiiguage –		iii <i>)</i>	
		it in: German and/or En	glish			
Metho ster, in	d of as Iformat	sessment (type, scope, ion on whether module mination (30 to 60 min	language — if other th can be chosen to earn	a bonus)		every seme-
c) oral d) oral e) pres	examir examir entatic	o pages) or nation of one candidate nation in groups of up t on (20 to 45 minutes) assessment: German ar	o 3 candidates (30 to 6			
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	oad					
210 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module appears in						
Master	Master's degree (1 major) Biology (2015)					
	-	ee (1 major) Bioscience				
Supple	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience		ion DILIC Elito Notice	ork Bayaria (END) (a	020)
		hing degree Gymnasiur ry course MINT Teacher				020)
		·				
Master's w	ith 1 majo	r Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 53 / 265

Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)
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Module title			Abbreviation			
Nucleus Workshop 07-MKEW0-152-m01				1		
Module coordinator Module			Module offered by	<u>.</u>		
degree	progra	mme coordinator Biolo	gie (Biology)	Faculty of Biology		
ECTS	r <u> </u>	od of grading	Only after succ. con	, , ,		
7		successfully completed		1 (2		
Duratio	on	Module level	Other prerequisites			
1 seme		graduate				
Conter	its					
ture (si pe, nue	ubject t clear lar	ll use a combination of o change): - nuclear en nina and their role in c ture and function of nu	velope, nuclear pores hromatin organisation	and nuclear-cytoplas and genetic disease	mic transport nucl	ear envelo-
Intend	ed learr	ning outcomes				
Studer	nts are a	able to perform practica	al experiments, applyin	g their theoretical kr	nowledge.	
Course	s (type,	, number of weekly con	tact hours, language –	- if other than Germa	n)	
Ü (5) + Module		t in: German and/or En	glish			
		essment (type, scope, on on whether module			tion offered — if not	every seme-
c) oral d) oral	examin examin	nination (30 to 60 min ation of one candidate ation in groups of up to ssessment: German an	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
210 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	legree programmes)		
Modul	e appea	rs in				
		ee (1 major) Biology (20	015)			
	-	ee (1 major) Bioscience				
	-	ning degree Gymnasiur		ion PLUS, Elite Netw	ork Bavaria (ENB) (20	016)
Supple	ementar	y course MINT Teacher	Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
Master	's degre	ee (1 major) Bioscience	s (2017)			
Master	's degre	ee (1 major) Bioscience	s (2018)			
Master	's teacł	ning degree Gymnasiur	n MINT Teacher Educat	ion PLUS, Elite Netw	ork Bavaria (ENB) (20	020)
Supple	ementar	y course MINT Teacher	Education PLUS, Elite	Network Bavaria (EN	B) (2020)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience	-			
	-	ee (1 major) Bioscience	•			,
Master	's teach	ning degree Gymnasiur	n MINT Teacher Educat	ion PLUS, Elite Netw	ork Bavaria (ENB) (20	025)
Master's w	ith 1 major	Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 55 / 265



Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 56 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Linux and Perl 07-ML-152-mo1						
Modul	e coord	inator		Module offered by	<u> </u>	
	older of the Chair of Bioinformatics			Faculty of Biology		
ECTS	T	od of grading	Only after succ. con			
		successfully completed				
5	· · · · · · · · · · · · · · · · · · ·	· ·				
Duration 1 seme		Module level graduate	Other prerequisites			
Conter		Sidudic				
	-	the Linux operating s	ystem, writing compute	er programs using the	e programming lang	uage Perl to
		ormatic questions.			• p. • 3. «	
Intend	ed learı	ning outcomes				
Studer	nts are a	able to use Linux as us	er and to write simple F	Perl scripts to answe	r bioinformatic quest	tions.
Course	es (type	, number of weekly cor	tact hours, language –	- if other than Germa	ın)	
S (3)					·	
-	e taugh	t in: German and/or En	glish			
Metho	d of ass	essment (type, scope,	language — if other th	an German, examina	tion offered — if not	every seme-
ster, in	nformati	on on whether module	can be chosen to earn	a bonus)		
			utes, including multipl	e choice questions)	or	
		pages) or		`		
			each (30 to 60 minute o 3 candidates (30 to 6	-		
		n (20 to 45 minutes)	0 3 calluluales (30 t0 6	o minutes) of		
		ssessment: German ar	d/or English			
	tion of p					
Alloca		Jaces				
						
Additio	onal Inf	ormation				
Worklo	bad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
	e appea					
	-	ee (1 major) Biology (20				
	-	ee (1 major) Bioscience				
			n MINT Teacher Educat			016)
	Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
	Master's degree (1 major) Biosciences (2017)					
	-	ee (1 major) Bioscience)
			n MINT Teacher Educat			020)
		•	Education PLUS, Elite	ivetwork Bavaria (EN	ы (2020) Б) (2020)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience	-			
	-	ee (1 major) Bioscience ning degree Gymnasiur	s (2024) n MINT Teacher Educat	ion PLUS, Flite Netw	ork Bavaria (FNR) (20	025)
						,
Master's w	vith 1 majoi	Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 57 / 265



Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 58 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Methods in Life Sciences			07-MLS1-152-m01			
Module coordinator		Module offered by				
degree	progra	mme coordinator Biolo	gie (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	numei	rical grade		-		
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster	graduate				
Conten						
models	s and ge	ene-knockout approacl	d research methods, n nes, protein and molec s and computational bi	ular biology techniqu		
Intende	ed learr	ning outcomes				
		•	and their knowledge of n experiments in a spe		techniques and are a	able to choo-
Course	s (type,	number of weekly cor	tact hours, language –	- if other than Germa	n)	
V (3) Module	e taught	t in: English				
			language — if other th can be chosen to earn		tion offered — if not	every seme-
c) oral d) oral Studen	examin examin its will b ige of a	ation of one candidate ation in groups of up t be informed about the ssessment: English	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 method, length and sc	s) or o minutes)		e.
Allocat		naces				
Additio	onal info	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	9				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	rs in				
Master	's degre	ee (1 major) Biochemis	try (2015)			
Master	's degre	ee (1 major) Biology (20	015)			
	-	ee (1 major) FOKUS Life				
	-	ee (1 major) Bioscience				
			n MINT Teacher Educat			016)
		•	Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Biochemis				
	-	ee (1 major) Bioscience				
	-	ee (1 major) Biochemis ning degree Gymnasiur	try (2019) n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)
Master's wi	ith 1 major	Biosciences (2017)	-	• generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschal	-	page 59 / 265



Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 60 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

mouut	e title				Abbreviation
Metho	ds in Li	fe Sciences			07-MLS1-171-m01
Modul	e coord	inator		Module offered b	V
		mme coordinator Biol	ngie (Biology)	Faculty of Biology	
ECTS	ŕ	od of grading		ompl. of module(s)	
10		rical grade			
-	·				
Duratio		Module level	Other prerequisit	es	
1 seme		graduate			
Conter					
models	s and ge		hes, protein and mole	ecular biology techni	ls, immunohistochemistry, mouse ques, PCR, advanced protein bio-
Intend	ed learı	ning outcomes			
Studer	nts are a	able to review and exp	and their knowledge of	of standard molecula	ar techniques and are able to choo
se met	hods aı	nd techniques to desig	gn experiments in a sp	ecific research area.	· · ·
Course	s (type	, number of weekly co	ntact hours, language	- if other than Gern	nan)
V (3)		t in: English			
Metho	d of ass	accmont (tuna scono	language if other		
ctor in		essment (type, scope	, language — n otner i	nan German, examir	nation offered — if not every seme-
Ster, III	formati	on on whether module			nation offered — if not every seme-
		on on whether module	e can be chosen to ea	rn a bonus)	
a) writt	en exai		e can be chosen to ea nutes, including multi	rn a bonus) ole choice questions	
a) writt c) oral d) oral	en exar examin examin	on on whether module mination (30 to 60 mir ation of one candidate ation in groups of up	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
a) writt c) oral d) oral Studer	en exar examin examin ts will l	on on whether module mination (30 to 60 mir ation of one candidate hation in groups of up be informed about the	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)	
a) writt c) oral d) oral Studer	en exar examin examin ts will l	on on whether module mination (30 to 60 mir ation of one candidate ation in groups of up	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
a) writt c) oral d) oral Studer Langua	en exar examin examin ts will l	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
a) writt c) oral d) oral Studer Langua	en exan examin examin nts will l age of a	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
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a) writt c) oral d) oral Studer Langua Allocat	en exar examin examin its will l age of a tion of p	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English blaces	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
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a) writt c) oral d) oral Studer Langua Allocat Additio Worklo	en exar examin examin its will l age of a cion of p onal infe	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English blaces	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
a) writt c) oral d) oral Studer Langua Allocat Additio Worklo 300 h	en exar examin examin its will l age of a ion of p onal info	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English blaces	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
a) writt c) oral d) oral Studer Langua Allocat Additio Worklo 300 h	en exar examin examin its will l age of a cion of p onal infe	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English blaces	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ole choice questions tes) or 60 minutes)) or
a) writt c) oral d) oral Studer Langua Allocat Additio 300 h Teachi 	en exar examin examin its will l age of a ion of p onal info pad	on on whether module mination (30 to 60 mir ation of one candidate bation in groups of up be informed about the ssessment: English blaces ormation	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio 300 h Teachi 	en exar examin examin its will l age of a ion of p onal info pad	on on whether module mination (30 to 60 mir ation of one candidate nation in groups of up be informed about the ssessment: English blaces	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio 300 h Teachi Referre	en exar examin examin its will l age of a ion of p onal info onal info oad	on on whether module mination (30 to 60 mir ation of one candidate bation in groups of up be informed about the ssessment: English places ormation e LPO I (examination re	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio 300 h Teachi Referre	en exar examin examin its will l age of a ion of p onal info pad	on on whether module mination (30 to 60 mir ation of one candidate bation in groups of up be informed about the ssessment: English blaces ormation e LPO I (examination re	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio Worklo 300 h Teachi Referre Modulo	en exar examin examin its will l age of a ion of p onal info onal info oad ed to in e appea	on on whether module mination (30 to 60 mir ation of one candidate be informed about the ssessment: English blaces ormation e LPO I (examination re trs in ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s gulations for teaching es (2017)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio Worklo 300 h Teachi Referre Modulo	en exar examin examin its will l age of a ion of p onal info onal info oad ed to in e appea	on on whether module mination (30 to 60 mir ation of one candidate bation in groups of up be informed about the ssessment: English places ormation e LPO I (examination re	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s gulations for teaching es (2017)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio 300 h Teachi Referre Modulo Master Master	en exar examin examin is will l age of a ion of p onal info onal info oad ed to in e appea d's degro	on on whether module mination (30 to 60 mir ation of one candidate be informed about the ssessment: English blaces ormation e LPO I (examination re trs in ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s egulations for teaching es (2017) es (2018)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Morklo 300 h Teachi Referre Master Master Master	en exarin examin examin age of a ion of p onal info pad ng cyclo ed to in e appea 's degro 's degro	on on whether module mination (30 to 60 mir ation of one candidate be informed about the ssessment: English blaces ormation e LPO I (examination re ars in ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s gulations for teaching es (2017) es (2018) es (2021)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additic Worklc 300 h Teachi Referre Modulo Master Master Master exchar	en exar examin examin age of a ion of p onal info onal i	on on whether module mination (30 to 60 mir ation of one candidate be informed about the ssessment: English blaces ormation e LPO I (examination re trs in ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s gulations for teaching es (2017) es (2018) es (2021) 22)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additic Worklc 300 h Teachi Referre Master Master Master exchar Master	en exar examin examin age of a ion of p onal info onal info onal info e appea d's degro d's degro d's degro d's degro	on on whether module mination (30 to 60 mir ation of one candidate be informed about the ssessment: English blaces ormation ee LPO I (examination re trs in ee (1 major) Bioscience ee (1 major) Bioscience gram Biosciences (202	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s egulations for teaching es (2017) es (2018) es (2021) es (2023)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Additio 300 h Teachi Referre Master Master Master Master Master Master	en exar examin examin is will l age of a ion of p onal info onal i	on on whether module mination (30 to 60 min ation of one candidate be informed about the ssessment: English Dlaces ormation e LPO I (examination re ars in ee (1 major) Bioscience ee (1 major) Bioscience gram Biosciences (202 ee (1 major) Bioscience gram Biosciences (202 ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s egulations for teaching es (2017) es (2018) es (2021) es (2023) es (2023) es (2024)	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm g-degree programme) or nent prior to the course.
a) writt c) oral d) oral Studer Langua Allocat Worklo 300 h Teachi Referro Modulo Master Master Master Master Master Master Master	en exar examin examin age of a ion of p onal info pad ng cyclo d to in e appea d's degro d's degro d's degro d's degro d's degro d's degro d's degro	on on whether module mination (30 to 60 min ation of one candidate be informed about the ssessment: English Dlaces ormation e LPO I (examination re ars in ee (1 major) Bioscience ee (1 major) Bioscience gram Biosciences (202 ee (1 major) Bioscience gram Biosciences (202 ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to method, length and s egulations for teaching es (2017) es (2018) es (2021) 22) es (2023) es (2024) m MINT Teacher Educ	rn a bonus) ole choice questions tes) or 60 minutes) scope of the assessm g-degree programme) or nent prior to the course.

Module title				Abbreviation		
Metho	ds in Li	fe Sciences B			07-MLS1B-152-m01	
Modul	e coord	inator		Module offered by		
1		mme coordinator Biologi	a (Biolomy)	Faculty of Biology		
ECTS	<u> </u>	od of grading	Only after succ. con			
7		successfully completed				
/ Duratio		Module level	Other prorequisites			
1 seme		graduate	Other prerequisites			
Conter		0	<u> </u>			
model	Versioned molecular techniques, lipid research methods, microscopic methods, immunohistochemistry, mouse models and gene-knockout approaches, protein and molecular biology techniques, PCR, advanced protein bio- chemistry, methods in bioinformatics and computational biology.					
Intend	ed lear	ning outcomes				
		able to review and expan nd techniques to design	-		techniques and are a	able to choo-
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)	
V (3) Modul	e taugh	t in: English				
		e ssment (type, scope, la on on whether module c			tion offered — if not	every seme-
c) oral d) oral	examin examir	nination (30 to 60 minut ation of one candidate e ation in groups of up to ssessment: English	ach (30 to 60 minute	s) or	or	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
210 h						
Teachi	ng cycl	9				
	0 . 7	-				
Referre	ed to in	LPOI (examination regu	lations for teaching-	legree programmes)		
				203.00 p.03.0		
Modul	e appea	urs in				
		ee (1 major) Biology (201	ב)			
	-	ee (1 major) Biosciences	-			
	-	ning degree Gymnasium		ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	016)
		y course MINT Teacher E				,
Master	's degr	ee (1 major) Biosciences	(2017)			
Master	's degr	ee (1 major) Biosciences	(2018)			
		ning degree Gymnasium				020)
		y course MINT Teacher E		Network Bavaria (EN	B) (2020)	
	-	ee (1 major) Biosciences	(2021)			
		gram Biosciences (2022)				
	-	ee (1 major) Biosciences				
master	s aegr	ee (1 major) Biosciences	(2024)			
Master's w	ith 1 majo	Biosciences (2017)		generated 19-Apr-2025 • exa		page 62 / 265



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 63 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation	
Topics	and Co	ncepts in Life Science	5		07-MLS2-152-m01	
Module	- coord	inator		Module offered by		
			(Distant)	Module offered by		
	r i	mme coordinator Biolo		Faculty of Biology		
ECTS 10		od of grading rical grade	Only after succ. con	npl. of module(s)		
-	L	<u> </u>				
Duratio		Module level graduate	Other prerequisites	•		
		glauuale				
Conten						
			ts from the areas of ne			
		rocircuits.	ample: protein charact	ensation, DNA repair	, Diosophila, compl	liational bio-
		ning outcomes				
		5	want vacaavab tanias in	the Creducte Schoo	l of Life Caionaga an	d ara abla ta
		ignificance and scient	rrent research topics in ific background.	the Graduate Schoo	of of Life Sciences an	u are able to
		-	itact hours, language –	- if other than Corma	un)	
V (3)	J (type	, number of weekly col				
	- taugh	t in: English				
		<u>v</u>	language — if other th	an German examina	tion offered — if not	OVORU COMO-
			can be chosen to earn			every seme-
-			utes, including multipl	-	or	
			each (30 to 60 minute			
d) oral	examin	ation in groups of up t	o 3 candidates (approx	x. 30 to 60 minutes)		
			method, length and sc	ope of the assessme	nt prior to the cours	е.
		ssessment: English				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	٩				
reachin	is cycl					
Deferme	d to la	IDOI (oversizetion	gulations for to the	dograa program		
Kererre		LPUT (examination re	gulations for teaching-	uegree programmes)		
Module						
	-	ee (1 major) Biology (2	-			
	-	ee (1 major) FOKUS Life				
	-	ee (1 major) Bioscience			arth Daviaria (CND) (a	a.()
			m MINT Teacher Educat			016)
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017)						
	-	ee (1 major) Bioscience				
	-		n MINT Teacher Educat	ion PLUS, Elite Netw	ork Bavaria (ENB) (2	020)
			Education PLUS, Elite			
		ee (1 major) Bioscience		•	-	
exchan	ige prog	gram Biosciences (202	2)			
Master's wi	ith 1 maio	Biosciences (2017)	IMI I Würzburg	• generated 19-Apr-2025 • exa	am, reg. da-	page 64 / 265
			_	er (120 ECTS) Biowissenscha	-	page 04 / 205

Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Module	e title			Abbreviation	
Topics	and Concepts in Life Sciences	07-MLS2B-152-m01			
Madul	e coordinator		Module offered by		
		-i- (Di-l	· · · · ·		
	e programme coordinator Biolo		Faculty of Biology		
ECTS	Method of grading	Only after succ. con	npl. of module(s)		
7	(not) successfully completed				
Duratio		Other prerequisites			
1 seme	ester graduate				
Conten	nts				
gy, and	d variety of topics and concep d biomedicine including for ex nd neurocircuits.				
Intend	ed learning outcomes				
	nts have an overview of the cu n their significance and scient		the Graduate Schoo	l of Life Sciences an	d are able to
Course	es (type, number of weekly cor	itact hours, language –	- if other than Germa	n)	
V (3)					
Module	e taught in: English				
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
c) oral	ten examination (30 to 60 min examination of one candidate	each (30 to 60 minute	s) or	or	
	examination in groups of up t age of assessment: English	o 3 candidates (30 to 6	o minutes)		
	tion of places				
Allocal					
Additio	onal information				
Worklo	pad				
210 h					
Teachi	ng cycle				
Referre					
	ed to in LPO I (examination re	guiations for teaching-	degree programmes)		
	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
		gulations for teaching-	degree programmes)		
 Module	e appears in		degree programmes)		
 Module Master	e appears in r's degree (1 major) Biology (20	015)	degree programmes)		
 Module Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience	015) 25 (2016)			016)
 Module Master Master Master	e appears in r's degree (1 major) Biology (20	015) 25 (2016) n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)
 Module Master Master Supple	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur	015) es (2016) n MINT Teacher Educat Education PLUS, Elite	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)
 Module Master Master Supple Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience	015) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018)	ion PLUS, Elite Netwo Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016)	
 Module Master Master Supple Master Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience r's teaching degree Gymnasiur	015) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018) n MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	
 Modula Master Master Supple Master Master Supple	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher	015) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018) n MINT Teacher Educat Education PLUS, Elite	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	
 Modulo Master Master Supple Master Master Supple Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience	215) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018) n MINT Teacher Educat Education PLUS, Elite es (2021)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	
 Master Master Master Supple Master Master Supple Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience	215) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018) n MINT Teacher Educat Education PLUS, Elite es (2021) es (2023)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	
 Master Master Master Supple Master Master Supple Master Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience r's degree (1 major) Bioscience	215) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018) n MINT Teacher Educat Education PLUS, Elite es (2021) es (2023) es (2024)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2 B) (2020)	020)
 Master Master Master Supple Master Master Master Master Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's teaching degree Gymnasiur ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience	215) es (2016) n MINT Teacher Educat Education PLUS, Elite es (2017) es (2018) n MINT Teacher Educat Education PLUS, Elite es (2021) es (2023) es (2024) n MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2 B) (2020) ork Bavaria (ENB) (2	020)



Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 67 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation	
Modelling in	Ecology			07-MMIE-152-m01	
Module coord	linator		Module offered by		
	Chair of Animal Ecology a	nd Tronical Biology	Faculty of Biology		
	od of grading	Only after succ. com	, _,		
	erical grade				
Duration	Module level	Other prerequisites			
1 semester	undergraduate				
Contents					
	thods. At the same time,			nt simulation techniques and ogram to address demographical	
Intended lear	ning outcomes				
	will expand their knowlec ly and interpret adequate			al modelling. They will be able to	
Courses (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
Ü (5)					
	nt in: German and/or Engl				
	sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
 b) log (approx c) oral examined) oral examine e) presentation 	mination (approx. 30 to 6 k. 15 to 30 pages) or nation of one candidate ea nation in groups of up to 3 on (approx. 20 to 45 minut assessment: German and,	ach (30 to 60 minutes 3 candidates (30 to 60 tes)	5) or		
Allocation of	places				
Additional inf	formation				
Workload					
90 h					
Teaching cyc	le				
Referred to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
Module appe	ars in				
Master's degr	ree (1 major) Biology (201	5)			
-	ree (1 major) Biosciences				
Master's degr	ree (1 major) Biosciences	(2017)			

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 68 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Microb	oial Eco	ogy			07-MMIÖK-152-mo:	1
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)		
3		successfully completed				
Duratio		Module level	Other prerequisites	i		
1 seme		graduate				
Conter						
phasis verteb comple re Miki pathog be fund	This lecture discusses fundamental principles of the interaction of bacteria with their environment. A major emphasis is on the interaction of mutualistic bacteria with other organisms including bacteria, invertebrates and vertebrates and, where appropriate, the comparison with commensal and pathogenic interactions. The lecture complements the focus Infektionsbiologie (Infection Biology) of the degree programme Zelluläre und Molekula-re Mikrobiologie / Infektionsbiologie (Cellular and Molecular Biology / Infection Biology) in which mainly human pathogens and their host interaction mechanisms are presented. Thus, the lecture intends to identify and describe fundamental concepts of the interaction of bacteria with different host organisms and their evolution.					orates and The lecture d Molekula- ainly human fy and descri-
	-	ning outcomes				
		erstand the fundament otic host organisms.	al principles and evolu	tion of the mechanis	ms of interaction be	tween bacte-
Course	es (type	, number of weekly cor	itact hours, language –	- if other than Germa	ın)	
V (1) Modul	e taugh	t in: German and/or En	glish			
			language — if other th	an German, examina	tion offered — if not	everv seme-
			can be chosen to earn			, ,
			utes, including multipl		or	
			each (30 to 60 minute o 3 candidates (30 to 6	-		
		ssessment: German ar		o minutes)		
	tion of p					
Additio	onal inf	ormation				
Worklo	bad					
90 h						
-	ng cycl	6				
Referre	ed to in	LPO I (examination re	gulations for teaching-	degree programmes)		
		•	<u> </u>	<u> </u>		
Modul	e appea	irs in				
Master	's degr	ee (1 major) Biology (20	015)			
Master	r's degr	ee (1 major) Bioscience	es (2016)			
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience				
	Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022)					
	exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023)					
	-	ee (1 major) Bioscience				
waster's w	ntn 1 majo	Biosciences (2017)	-	er (120 ECTS) Biowissenschaft	-	page 69 / 265

Module title				Abbreviation		
Neurog	genetic	s of Behaviour B			07-MNBB-152-m01	
Module	e coord	inator		Module offered by	<u> </u>	
		Chair of Neurobiology a	nd Genetics	Faculty of Biology		
ECTS	1	od of grading		. compl. of module(s)		
5	1	successfully completed		£		
Duratio	on	Module level	Other prerequisites			
1 semester graduate						
Conten	nts					
be ove how th ant top ting, m genetic	To understand how the brain controls behaviour is at the heart of neuroscience. Both brain and behaviour can be overwhelmingly complex and plastic, yet neurogenetic methods are powerful tools to dissect the principles of how the brain controls behaviour. The lecture and seminar will give a state-of-the art view on current and important topics of behavioural neurobiology (incl. e. g. sleep, control of appetite and feeding, social behaviour, mating, mirror neurons, molecular mechanisms of auditory-guided behaviour, neurogenetic techniques) focusing on genetic model systems such as the fruit fly Drosophila, the mouse, and the nematode C. elegans.					
	-	ning outcomes				
		students acquire theor neral and the neuroger		gical insights into cur	rrent topics in the fie	ld of neuro-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	ın)	
V (3)						
		t in: English				
		essment (type, scope, on on whether module			tion offered — if not	every seme-
		mination (30 to 60 min ation of one candidate			or	
		ation in groups of up to		-		
		ssessment: German an		· · · · · · · · · · · · · · · · · · ·		
Allocat	tion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Modul	e appea	urs in				
		ee (1 major) Biology (20				
	-	ee (1 major) Bioscience				
		ning degree Gymnasiur Y course MINT Teacher				016)
		ee (1 major) Bioscience		Network Davalla (EN	D) (2010)	
	-	ee (1 major) Bioscience				
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)						
		y course MINT Teacher		Network Bavaria (EN	B) (2020)	
Master	's degr	ee (1 major) Bioscience	s (2021)			
Master's w	vith 1 majo	r Biosciences (2017)		er (120 ECTS) Biowissenschaft	-	page 70 / 265

exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module title				Abbreviation			
Preser	itation o	of Scientific Data			07-MPWD-152-m01		
Modul	e coord	inator		Module offered by			
Coordi	nator B	ioCareers		Faculty of Biology			
ECTS		od of grading	Only after succ. con	npl. of module(s)			
5	(not) s	successfully completed					
Durati		Module level	Other prerequisites				
1 seme		graduate					
Conter							
dents the log per or well as ons ca of cha less th	Principles for the preparation of scientific manuscripts, citations and the presentation of scientific data. Stu- dents will write a scientific mini review and present this in a talk (15 minutes). Content, structure, coherence and the logical chain of arguments will be discussed. Students will write and publish (where possible) a scientific pa- per or review on a selected topic in a scientific journal. The students' work will be based on original papers as well as on reviews and will follow the instructions of a scientific journal of the students' choice. These instructi- ons can be found on the website of the respective journal under "Instructions to Authors" or similar. Both length of chapters and structure of the article should be based on the style of the journal selected. Attendance of no less than 20 scientific talks (e. g. defences of doctoral theses, presentations of research projects, retreats) inclu- ding presentations by guest speakers. Students are to obtain proof of attendance from the organisers or spea-						
Intend	ed learı	ning outcomes					
The stu familia	udents a r with t	are familiar with the det he methodology of scie eading, speaking and w	ntific publishing in ora				
Course	es (type	, number of weekly con	tact hours, language –	- if other than Germa	n)		
S (2)							
		t in: German and/or Enរ្					
		essment (type, scope, on on whether module			tion offered — if not	every seme-	
b) log c) oral d) oral e) pres	(15 to 30 examin examin entatio	nination (30 to 60 minu o pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes) ssessment: German an	each (30 to 60 minute 9 3 candidates (30 to 6	s) or	or		
Alloca	tion of p	olaces					
Additi	onal inf	ormation					
Workle	oad						
150 h							
Teachi	ng cycl	9					
	_						
Referr	ed to in	LPOI (examination reg	ulations for teaching-	degree programmes)			
Modul	e appea	irs in					
	-	ee (1 major) Biology (20	-				
	-	ee (1 major) Bioscience ning degree Gymnasium		ion PILIS Flite Natur	ork Bayaria (FNR) (a	o16)	
		Biosciences (2017)	JMU Würzburg	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschal	am. reg. da-	page 72 / 265	

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 73 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Nourah	e title				Abbreviation	
Neurop	piology,	Behavioural Physiolo	gy and Animal Ecology		07-MS1-152-m01	
Module	e coordi	nator		Module offered by	<u> </u>	
Dean o	of Studie	s Biologie (Biology)		Faculty of Biology		
ECTS		d of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
10	numeri	cal grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conten	nts					
stems. mental partner if anim an intro tegrativ then to Intende Studen They le of resea	Animals l parame r or enou als are a oduction ve appro <u>o interact</u> ed learn nts get to earn to re	a make use of endoge ters. To be at the righ igh food has to be fou it the same place at the to the mechanisms u each, the lecture goes tions in social groups ing outcomes know the advantage late and integrate dif dings.	on in the animal kingdo nous clocks to predict a t place at the right time and. Many mutualistic, ne same time and in the underlying the tempora from timing mechanism populations or partne s of an integrative appr ferent fields within biol	and adapt to daily or is of great fitness re antagonistic or socia appropriate develo l organisation in the ns on the neuronal lo rs in complex and va oach when analysing ogy. In the seminar,	seasonal changes i levance if -for exam il interactions can or pmental stage. The l animal kingdom. Ad evel to individual be riable ecosystems. g complex biological students practise th	n environ- ple- a mating nly take place lecture gives lopting an in- haviour and
Course	es (type,	number of weekly cor	ntact hours, language –	- if other than Germa	ın)	
V (3) Module	e taught	in: English				
		-	language — if other th	an German, examina	tion offered — if not	every seme-
			can be chosen to earn			
c) oral d) oral Studen	examina examina nts will b	ition of one candidate ation in groups of up t	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 method, length and sc nd/or English	s) or o minutes)		е.
Allocat	tion of p	aces				
Additic	onal info	rmation				
 Worklo	oad					
	oad					
 Worklo 300 h	oad ng cycle					
 Worklo 300 h						
 Worklo 300 h Teachin	ng cycle		gulations for teaching-	degree programmes)		
 Worklo 300 h Teachin	ng cycle		gulations for teaching-	degree programmes)		
 Worklo 300 h Teachin Referre	ng cycle	POI (examination re	gulations for teaching-	degree programmes)		
 Worklo 300 h Teachin Referre Module	ng cycle ed to in L e appear	. PO I (examination re 's in e (1 major) Biology (20	015)	degree programmes)		
 Worklo 300 h Teachin Referre Module Master Master	ng cycle ed to in L e appear r's degre r's degre	. PO I (examination re 's in e (1 major) Biology (24 e (1 major) FOKUS Life	015) 9 Sciences (2015)	degree programmes)		
 Worklo 300 h Teachin Referre Module Master Master Master	ng cycle ed to in L e appear r's degre r's degre r's degre	PO I (examination re 's in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Bioscience	015) 9 Sciences (2015)			016)
 300 h Teachin Referre Module Master Master Master Master	ng cycle ed to in L e appear r's degre r's degre r's degre r's teach	PO I (examination re 's in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Bioscience ing degree Gymnasiu	015) e Sciences (2015) es (2016)	ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Worklo 300 h Teachin Referre Module Master Master Master Supple	ng cycle ed to in L e appear f's degre f's degre f's degre f's teachi ementary	PO I (examination re 's in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Bioscience ing degree Gymnasiu	015) 9 Sciences (2015) 9s (2016) m MINT Teacher Educat 7 Education PLUS, Elite	ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)

UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

exchange program Biosciences (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 75 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

	e title			Abbreviation	
Neurob	oiology, Behavioural Physiology	and Animal Ecology	B	07-MS1B-152-m01	
Module	e coordinator		Module offered by	<u> </u>	
	f Studies Biologie (Biology)	1	Faculty of Biology		
ECTS	Method of grading	Only after succ. com	, 0,		
7	(not) successfully completed				
/ Duratio		Other prerequisites			
1 seme					
Conten					
stems. mental partner if anima an intro tegrativ then to Intende Studen They le Course V (3) Module	matters: Temporal organisation Animals make use of endogend parameters. To be at the right p r or enough food has to be found als are at the same place at the oduction to the mechanisms un- ve approach, the lecture goes fro- interactions in social groups, p ed learning outcomes the get to know the advantages of earn to relate and integrate difference is (type, number of weekly contact e taught in: English d of assessment (type, scope, la	bus clocks to predict a blace at the right time d. Many mutualistic, a same time and in the derlying the temporal om timing mechanism opulations or partners of an integrative appro- rent fields within biolo act hours, language —	nd adapt to daily or is of great fitness re ntagonistic or socia appropriate develo organisation in the s on the neuronal le s in complex and va each when analysing ogy. if other than Germa	seasonal changes i elevance if -for exam il interactions can or pmental stage. The l animal kingdom. Ad evel to individual be riable ecosystems. g complex biological	n environ- ple- a mating nly take place lecture gives lopting an in- haviour and l systems.
a) writt c) oral d) oral	formation on whether module c en examination (30 to 60 minut examination of one candidate e examination in groups of up to	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua	en examination (30 to 60 minut examination of one candidate e examination in groups of up to	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua Allocat	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua Allocat	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua Allocat	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua Allocat	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d) oral Langua Allocat Additio	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d d) oral Langua Allocat Additio Worklo 210 h	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d d) oral Langua Allocat Additio Worklo 210 h	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60	a bonus) choice questions) () or		
a) writt c) oral d d) oral Langua Allocat Additio 210 h Teachin 	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English	a bonus) choice questions) () or o minutes)	or	
a) writt c) oral d d) oral Langua Allocat Additio 210 h Teachin 	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English	a bonus) choice questions) () or o minutes)	or	
a) writt c) oral d d) oral Langua Allocat Additio 210 h Teachin Referre	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English	a bonus) choice questions) () or o minutes)	or	
a) writt c) oral d d) oral Langua Allocat Additio 210 h Teachin Referre Module	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad ng cycle ed to in LPO I (examination regu	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English	a bonus) choice questions) () or o minutes)	or	
a) writt c) oral d d) oral Langua Allocat Additio 210 h Teachin Referre Module	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad age cycle ed to in LPO I (examination regu	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English lations for teaching-d	a bonus) choice questions) () or o minutes)	or	
a) writt c) oral d) oral Langua Allocat Additio 210 h Teachin Referre Module Master Master	een examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information ad ed to in LPO I (examination regu e appears in "s degree (1 major) Biology (201	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English llations for teaching-d 5) (2016)	a bonus) choice questions) () or o minutes) egree programmes)	or	
a) writt c) oral d) oral Langua Allocat Morklo 210 h Teachin Referre Module Master Master Master	een examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad age to in LPO I (examination regu e appears in "s degree (1 major) Biology (201	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English 	a bonus) choice questions) () or o minutes) egree programmes) on PLUS, Elite Netwo	or or ork Bavaria (ENB) (2	
a) writt c) oral d) oral Langua Allocat Additio 210 h Teachin Referre Module Master Master Supple	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad ng cycle ed to in LPO I (examination regu e appears in d's degree (1 major) Biology (201 d's degree (1 major) Biology (201	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English lations for teaching-d 5) (2016) MINT Teacher Education ducation PLUS, Elite N	a bonus) choice questions) () or o minutes) egree programmes) on PLUS, Elite Netwo	or or ork Bavaria (ENB) (2	
a) writt c) oral d) oral Langua Allocat Additio 210 h Teachin Referre Module Master Master Supple Master	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad ad ad ad ed to in LPO I (examination regu e appears in "'s degree (1 major) Biology (201 ''s degree (1 major) Biology (201 ''s teaching degree Gymnasium ementary course MINT Teacher E	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English 	a bonus) choice questions) () or o minutes) egree programmes) on PLUS, Elite Netwo	or or ork Bavaria (ENB) (2	
a) writt c) oral d d) oral Langua Allocat Additio Z10 h Teachin Referre Master Master Master Supple Master Master Master	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad ed to in LPO I (examination regu e appears in d's degree (1 major) Biology (201 d's degree (1 major) Biology (201 d's teaching degree Gymnasium ementary course MINT Teacher E d's degree (1 major) Biosciences	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English 	a bonus) choice questions) () or o minutes) egree programmes) on PLUS, Elite Network Bavaria (EN	or or ork Bavaria (ENB) (2 B) (2016)	016)
a) writt c) oral d) oral Langua Allocat Additio 210 h Teachin 210 h Teachin Referre Module Master Master Master Master Master Master Supple	en examination (30 to 60 minut examination of one candidate e examination in groups of up to age of assessment: German and tion of places onal information oad age of assessment: German and tion of places onal information ead ad ad ad ad ad ad ad ad ad ad ad ad a	an be chosen to earn es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 /or English lations for teaching-d 5) (2016) MINT Teacher Education ducation PLUS, Elite N (2017) (2018) MINT Teacher Education ducation PLUS, Elite N	a bonus) choice questions) () or o minutes) egree programmes) on PLUS, Elite Netwo letwork Bavaria (EN on PLUS, Elite Netwo	or ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2 B) (2020)	016)

Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Biowissenschaften - 2017	page 77 / 265
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Module title				Abbreviation
Endogeno				07-MS1CB-152-m01
Module co	ordinator		Module offered by	
holder of t	he Chair of Neurobiology and	l Genetics	Faculty of Biology	
	ethod of grading	Only after succ. com	pl. of module(s)	
10 NL	Imerical grade			
Duration	Module level	Other prerequisites		
1 semeste	r graduate			
Contents				
neuronal o clocks and be explain	I the underlying mechanisms	e brain of mammals will be discussed or	and insects. The bio the molecular, cellu	animals, with a focus on the logical functions of endogenous ılar and organismic levels. It will d aspects regarding e.g. shift
Intended l	earning outcomes			
into currer				us clocks and obtain an insight a skills and the discussion of re-
Courses (t	ype, number of weekly conta	ct hours, language —	· if other than Germa	n)
V (2) + S (1 Module ta	.) ught in: English			
		nguage — if other tha	an German, examina	tion offered — if not every seme-
	nation on whether module ca			· · · · · · · · · · · · · · · · · · ·
c) oral exa d) oral exa Students v	examination (30 to 60 minute mination of one candidate ea imination in groups of up to 3 will be informed about the me of assessment: German and/	ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	s) or o minutes)	
Allocation	of places			
Additiona	information			
Workload				
300 h				
Teaching	cycle			
Referred t	o in LPO I (examination regu	lations for teaching-o	legree programmes)	
Module ap	opears in			
Master's d Master's d Master's te Suppleme Master's d Master's d	legree (1 major) Biology (2015 legree (1 major) FOKUS Life So legree (1 major) Biosciences (eaching degree Gymnasium M ntary course MINT Teacher Ec legree (1 major) Biosciences (legree (1 major) Biosciences (eaching degree Gymnasium M	ciences (2015) (2016) MINT Teacher Educati ducation PLUS, Elite I (2017) (2018)	Network Bavaria (ENI	B) (2016)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 79 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation	
Experin	nental	Sociobiology			07-MS1ES-152-m01	
Module	e coord	inator		Module offered by		
holder logy	ofthe	Chair of Behavioral Phys	siology and Sociobio-	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
10		rical grade		• • • •		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts		-			
and me current	echanis resear	vers the diversity and the diversity and the set of neurobiology the set of neurobiology the read of the faculty. With the topics covered in the	t are the basis of the c he help of selected pu	organisation of social	groups. A special fo	ocus is on
Intende	ed lear	ning outcomes				
ral biol	ogy. St e able	erstand the value of an udents are able to reco to formulate scientific c epth.	gnise and interpret rela	ationships between v	various aspects of so	ociobiology.
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
V (2) + 1 Module		t in: English				
Method	d of ass	sessment (type, scope, ion on whether module			tion offered — if not	every seme-
b) log (c) oral e d) oral e) prese	15 to 3 examin examir entatio	mination (30 to 60 minu o pages) or nation of one candidate nation in groups of up to n (20 to 45 minutes) nssessment: German an	each (30 to 60 minute 9 3 candidates (30 to 6	s) or	Dr	
Allocat	ion of ۱	places				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir		0				
Teacini	ig cyci	C				
Referre	d to in	LPOI (examination reg	gulations for teaching-o	degree programmes)		
Module	e appea	ars in				
Master Master Master Supple	's degr 's degr 's teac menta	ee (1 major) Biology (20 ee (1 major) FOKUS Life ee (1 major) Bioscience hing degree Gymnasiun ry course MINT Teacher ee (1 major) Bioscience	Sciences (2015) s (2016) n MINT Teacher Educat Education PLUS, Elite			016)
Master	's degr	ee (1 major) Bioscience	s (2018)			
Master's wi	ith 1 majo	r Biosciences (2017)	-	er (120 ECTS) Biowissenschaft	-	page 80 / 265

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 81 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation	
Animal	Comm	unication			07-MS1K-152-m01	
Module		inator		Module offered by		
			ciology and Sociabia	· · ·		
logy	orthe	Chair of Behavioral Phy	siology and Sociobio-	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its	1				
used b semina	y anim ar sessi	leal with physiological als, but also highlight a on, students will deep re lecture.	adaptive values and eve	olutionary aspects of	animal signalling. In	n a follow-up
Intend	ed lear	ning outcomes				
learneo logical	d to cor condit	erstand the value of an nnect findings from diff ions, in order to gain a uss current scientific p	erent research areas, s more complete picture	uch as physiology, n of a topic. In additio	eurobiology, behavi n, students have lea	our and eco-
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
V (2) + Module		t in: German and/or En	glish			
		sessment (type, scope,		an German, examina	tion offered — if not	everv seme-
		ion on whether module				every serie
b) log (c) oral d) oral e) pres	(15 to 3 examir examir entatic	mination (30 to 60 min o pages) or nation of one candidate nation in groups of up t on (20 to 45 minutes) assessment: German ar	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or	
Allocat						
Additic	nalinf	ormation				
Auditio						
Worklo	ad					
300 h						
Teachi	ng cycl	е				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biology (20	015)			
	-	ee (1 major) Bioscience				
		hing degree Gymnasiur				o16)
		ry course MINT Teacher		Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience				
		hing degree Gymnasiur				
Master's w	ith 1 majo	r Biosciences (2017)	· · · · ·	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	-	page 82 / 265

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 83 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

	e title			Abbreviation	
Molecu	ılar and Clinical Neurobiology			07-MS1N-152-m01	
Module	e coordinator		Module offered by	<u> </u>	
	ing Director of the Institute of	Clinical Neuropiology	-		
ECTS	Method of grading	Only after succ. con			
10	numerical grade				
Duratio	, <u> </u>	Other prerequisites			
1 seme					
Conten					
nervou: thies - s the hur Parkins ry, ante vision, criptior lecture Fridays	It of the lecture <i>Molekulare un</i> s system, properties of neuro synapses, transmitter release man motor system, spinal refl son - muscles and muscle disc erograde amnesia, visual agno diseases of the visual system n of this course is also availab Molecular and Clinical Neuro 5 8-9 a.m.) together form one	ns and glial cells - ion o , neuromuscular end pl exes, motor neuron dis eases - somatosensory osia - cortex, Morbus Al s; Reading: Kandel, Prin ole at http://neurobiolo biology (incl. seminar) theoretical module (10	hannels and excitab late, Myasthenia gra- eases - cerebellum, system and pain - hi zheimer - sleep, EEG ciples of Neural Scie gie.uk-wuerzburg.de and <i>Neuroentwicklur</i> ECTS). However, you	ility of membranes, vis - motor activity, a ataxia and basal gar ppocampus, learnin , epilepsy - sensory ence, 4th Edition: A c e/lehrveranstaltunge ngsbiologie (Neurod may also complete	channelopa- natomy of nglia, Morbus g and memo- physiology, letailed des- en.html. The evelopment;
	es separately and have them o	credited within the area	of mandatory electr	ves 2.	
	ed learning outcomes				
Theorei ses.	tical foundations of molecula	r and clinical neurobiol	ogy, developmental	mechanisms of neur	onal disea-
	s (type, number of weekly cor	ntact hours, language –	- if other than Germa	n)	
V (2) +	· · · · · · · · · · · · · · · · · · ·			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
• •	e taught in: German and/or Er	Iglish			
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
c) oral d) oral	en examination (30 to 60 min examination of one candidate examination in groups of up t age of assessment: German ar	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or	
Allocat	ion of places				
Additio	onal information				
Worklo	ad				
300 h					
-	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching.	legree programmes)		
	e appears in				
Module					
	's degree (1 maior) Biology (2)	D15)			
Master	's degree (1 major) Biology (2 's degree (1 major) Bioscience	-			
Master Master	's degree (1 major) Biology (2 's degree (1 major) Bioscience 's degree (1 major) Bioscience	es (2016)			
Master Master Master	's degree (1 major) Bioscience	es (2016) es (2017)			
Master Master Master Master	's degree (1 major) Bioscience 's degree (1 major) Bioscience	es (2016) es (2017) es (2018)			



Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 85 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Neurog	genetics	s of Behaviour			07-MS1NB-152-m01	
Modul	e coord	inator		Module offered by		
		Chair of Neurobiology an	d Genetics	Faculty of Biology		
ECTS		od of grading	Only after succ. con	· · · · ·		
10	<u> </u>	rical grade				
Duratio	·	Module level	Othor proroguisitos			
1 seme		graduate	Other prerequisites			
Conter		Sladuate				
To understand how the brain controls behaviour is at the heart of neuroscience. Both brain and behaviour can be overwhelmingly complex and plastic, yet neurogenetic methods are powerful tools to dissect the principles of how the brain controls behaviour. The lecture and seminar will give a state-of-the art view on current and import- ant topics of behavioural neurobiology (incl. e. g. sleep, control of appetite and feeding, social behaviour, ma-						
		urons, molecular mecha systems such as the fru	, .		•	focusing on
		ning outcomes	, 2.000p			
			tical and mathedala	ical incideta into au	want tanics in the field	deference
genetio	cs in ge	students acquire theore neral and the neurogene findings in English.				
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	n)	
V (2) +	S (1)	t in: English				
		sessment (type, scope, la	anguage — if other th	an German, examina	tion offered — if not e	everv seme-
		on on whether module c				Jerry Serrie
a) writt	en exa	nination (30 to 60 minut	es, including multiple	e choice questions) (or	
		ation of one candidate e				
		ation in groups of up to				
		be informed about the m	_	ope of the assessme	nt prior to the course.	•
		ssessment: German and	/or English			
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad		-			
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Modul	e appea	irs in				
		ee (1 major) Biology (201	5)			
	-	ee (1 major) FOKUS Life S	-			
Master	's degr	ee (1 major) Biosciences	(2016)			
Master	's teacl	ning degree Gymnasium	MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	16)
Supple	Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Master	's degr	ee (1 major) Biosciences	(2017)			
Master	's degr	ee (1 major) Biosciences	(2018)			
		ning degree Gymnasium				20)
Master's w	rith 1 major	r Biosciences (2017)	· · · · ·	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	•	page 86 / 265

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)

	e title			Abbreviation
Develo	opmental Neurobiology and Ch	ronobiology		07-MS1NEC-152-m01
Modul	e coordinator		Module offered by	
	of the Chair of Neurobiology a	nd Conotics	Faculty of Biology	
ECTS	Method of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·	
10	numerical grade			
Duratio	· · · ·	Other prerequisites		
1 seme				
Conter				
ganism brain o on a m dayligh of neur format tion, ar	ns, fungi, plants, and animals of of mammals and insects. Stude iolecular, cellular, and organism ht. Related aspects of jetlag an ronal development on the mole ion, regional subdivision, neur nd neuronal circuitry.	with a focus on the neu ents learn about the bi mic level, as well as th d shift-work are discus ecular level. Main focu	uronal organisation of ological purpose of e eir adaptation to 24 ssed. Lecture <i>Neuror</i> s is the establishme	genous clocks in unicellular or- of the endogenous clock in the endogenous clocks, their function hour days with varying hours of <i>val Development</i> : Fundamentals nt of the neuroectoderm, pattern iation of neurons, axonal naviga-
	ed learning outcomes			
ment a ments	nts acquire a fundamental know and gain an insight into current and to research specific quest tically discussed in the semina	research. Students al ions that arise in their	so learn to independ	
Course	es (type, number of weekly con	tact hours, language –	- if other than Germa	in)
V (2) + Module	S (1) e taught in: English			
	d of assessment (type, scope, nformation on whether module			tion offered — if not every seme-
c) oral d) oral Studer	ten examination (30 to 60 minu examination of one candidate examination in groups of up to nts will be informed about the u age of assessment: German an	each (30 to 60 minute o 3 candidates (30 to 6 method, length and sc	s) or o minutes)	
Alloca	tion of places			
Additio	onal information			
Worklo	bad			
300 h				
-	ng cycle			
	ad to in IDO I (avamination to	ulations for teaching	degree programmes	
Referre	POTOTOTOTOTOTOTO		acsice programmes/	
Referre	ed to in LPO I (examination reg	<u></u>		
		,	<u> </u>	
 Modul	e appears in			
 Modul Master		015)		
 Modul Master Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) FOKUS Life r's degree (1 major) Bioscience	915) Sciences (2015) s (2016)		
 Modula Master Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) FOKUS Life r's degree (1 major) Bioscience r's degree (1 major) Bioscience	015) Sciences (2015) s (2016) s (2017)		
 Module Master Master Master Master	e appears in r's degree (1 major) Biology (20 r's degree (1 major) FOKUS Life r's degree (1 major) Bioscience	015) Sciences (2015) s (2016) s (2017) s (2018)	• generated 19-Apr-2025 • ex	

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 89 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Neurobiology F1 Module coordinator Module offered by Module coordinator Module offered by Faculty of Biology holder of the Chair of Neurobiology and Genetics Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 10 numerical grade Duratior Module level Other prerequisites 1 semester graduate					
holder of the Chair of Neurobiology and Genetics Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 10 numerical grade Duration Module level Other prerequisites					
ECTS Method of grading Only after succ. compl. of module(s) 10 numerical grade Duration Module level Other prerequisites					
10 numerical grade Duration Module level Other prerequisites					
Duration Module level Other prerequisites					
1 semester graduate					
Contents					
A current topic in the field of neurobiology will be investigated. The practical course will be offered in different specialisations: molecular, clinical, cellular, developmental or behavioural neurobiology or in neurogenetics. addition to a literature search, a variety of neurobiological methods (for example: electrophysiology, immuno histochemistry, molecular biological techniques, clinical and neurogenetic techniques) and different model s stems are offered. The experimental results will be documented and presented in the form of a scientific talk, publication or a seminar paper.					
Intended learning outcomes					
The participants are able to conduct scientific research within the field of neurobiology. They have acquired t knowledge and skills (e.g. basic and advanced knowledge, special knowledge, advanced methodological ba ground, general and specific methods) to carry out and document neurobiological experiments according to l practice.					
Courses (type, number of weekly contact hours, language — if other than German)					
P (14) + S (1) Module taught in: German and/or English					
Method of assessment (type, scope, language — if other than German, examination offered — if not every ser					
ster, information on whether module can be chosen to earn a bonus)					
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English 					
Allocation of places					
Additional information					
Workload					
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Biology (2015) Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017)					
Master's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Biowissenschaften - 2017 page 90 /					

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 91 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Neurobiology F2 07-MS1NF2-152-m01						
Module	e coord	inator		Module offered by		
holder	of the (Chair of Neurobiology a	nd Genetics	Faculty of Biology		
ECTS	1	od of grading	Only after succ. con			
15	1	successfully completed	·			
Duratio	n	Module level	Other prerequisites			
1 seme		graduate				
Conten						
The students will independently work on a smaller project within a current line of research at the Chair. Neuro- biological, genetic or molecular techniques will be tested and adapted according to the research aim. The pro- gress of the experiments and the current line of research will be documented and presented in the form of a scientific talk, a publication or a seminar paper.						
Intend	ed lear	ning outcomes				
apt a re basic a	esearch Ind adv hods) t	its are able to independ plan according to the anced knowledge, spe o independently carry o	experimental progress cial knowledge, advan	. They have acquired ced methodological l	the knowledge and background, general	skills (e. g. and speci-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
P (29) · Module		t in: German and/or En	glish			
		sessment (type, scope, on on whether module			tion offered — if not	every seme-
b) log (c) oral d) oral e) pres	15 to 30 examin examir entatio	mination (30 to 60 min o pages) or ation of one candidate nation in groups of up t n (20 to 45 minutes) ssessment: German ar	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
450 h						
Teachi	ng cvcl	e				
	0 .)	-				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Module appears in						
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018)						
		ning degree Gymnasiur				020)
Master's w	ith 1 majo	r Biosciences (2017)	-	er (120 ECTS) Biowissenschaft	-	page 92 / 265

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 93 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Moaule	e title			Abbreviation	
Neuror	modulation and Neuronal De	velopment		07-MS1NMND-152-r	n01
Modul	e coordinator		Module offered by	<u> </u>	
	of the Chair of Neurobiology	and Genetics	Faculty of Biology		
ECTS	Method of grading	Only after succ. cor			
10	numerical grade		<u> </u>		
Duratio	on Module level	Other prerequisites	5		
1 seme	· · · · · · · · · · · · · · · · · · ·				
Conten	nts				
aptic tr stems biology ronal p	modulation: cellular and mol ransmission and membrane used to study modulation of y. Focus is on the establishm precursors, neuronal growth,	potential, theoretical an neuronal circuits. Funda ent of the neuroectoder	d functional aspects amental principles of m, pattern generation	of neuromodulation molecular developn n and regional speci	, model sy- nental neuro fication, neu
	ed learning outcomes				
an insi	udents learn fundamental pri ght into current research in t gs in English.				
Course	es (type, number of weekly co	ontact hours, language –	– if other than Germa	n)	
V (2) + Module	S (1) e taught in: English				
	d of assessment (type, scop Iformation on whether modu			tion offered — if not	every seme-
d) oral Studen	examination of one candida examination in groups of up nts will be informed about th age of assessment: German a	to 3 candidates (30 to 6 e method, length and sc	60 minutes)	nt prior to the course	2.
Allocat	tion of places				
Additic	onal information				
Worklo	bad				
300 h					
Teachi	ng cycle				
	_ ~ *				
Referre	ed to in LPO I (examination r	egulations for teaching-	degree programmes)		
Module	e appears in				
Master	r's degree (1 major) Biology (-			
Master Master		fe Sciences (2015)			
Master Master Master Master	r's degree (1 major) Biology (r's degree (1 major) FOKUS Li r's degree (1 major) Bioscien r's teaching degree Gymnasi	fe Sciences (2015) ces (2016) um MINT Teacher Educat			016)
Master Master Master Master Supple	r's degree (1 major) Biology (r's degree (1 major) FOKUS Li r's degree (1 major) Bioscien r's teaching degree Gymnasi ementary course MINT Teach	fe Sciences (2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite			016)
Master Master Master Master Supple Master	r's degree (1 major) Biology (r's degree (1 major) FOKUS Li r's degree (1 major) Bioscien r's teaching degree Gymnasi ementary course MINT Teach r's degree (1 major) Bioscien	fe Sciences (2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite ces (2017)			D16)
Master Master Master Master Supple Master Master	r's degree (1 major) Biology (r's degree (1 major) FOKUS Li r's degree (1 major) Bioscien r's teaching degree Gymnasi ementary course MINT Teach	fe Sciences (2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite ces (2017) ces (2018)	Network Bavaria (EN	B) (2016)	

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)

Module title					Abbreviation	
Anima	l Ecolog	y and Tropical Biology			07-MS1TÖ-152-m01	
Module	e coord	inator		Module offered by	<u> </u>	
holder	of the (Chair of Animal Ecology	and Tropical Biology	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con			
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
current	t issues	in animal ecology. For	d a seminar. The lecture cus will be on biodivers	ity and ecosystem fu	Inctions, multi-troph	ic interac-
			ology, chemical ecology tific publications withir			
discus				The topics mention		sented and
Intend	ed learı	ning outcomes				
The stu	udents v	will acquire an advance	ed knowledge of ecolog	gical theories and cu	rrent research issues	s in the field
		ogy. They will be able t rrent environmental ris	to interpret scientific pu ks.	ublications and appl	y the acquired know	ledge to the
			itact hours, language –	- if other than Germa	ın)	
V (2) +						
		t in: German and/or En				
			language — if other the can be chosen to earn		ition offered — if not	every seme-
			utes, including multipl		or	
			each (30 to 60 minute o 3 candidates (30 to 6	-		
		ssessment: German ar		o minutes)		
	ion of p					
Additio	onal inf	ormation				
Worklo	ad					
300 h						
-	ng cycl	9				
	<u> </u>					
Referre	ed to in	LPO I (examination re	gulations for teaching-	degree programmes)	I	
		•	<u> </u>	<u> </u>		
Module	e appea	irs in				
		ee (1 major) Biology (20				
	Master's degree (1 major) Biosciences (2016)					
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
	Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017)					
	Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018)					
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)					
		•	Education PLUS, Elite	Network Bavaria (EN	B) (2020)	
Master	's degr	ee (1 major) Bioscience	es (2021)			
Master's w	ith 1 majoi	Biosciences (2017)		e generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha		page 96 / 265

exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module	e title			Abbreviation	
Animal	Ecology and Tropical Bio	ology 2		07-MS1TÖ2-152-mc)1
Madula	e coordinator		Madula offered by		
			Module offered by		
		ology and Tropical Biology	Faculty of Biology		
ECTS	Method of grading	Only after succ. cor	npl. of module(s)		
10	numerical grade				
Duratio		Other prerequisites	6		
1 seme	ster graduate				
Conten	Its				
focus is	s on the global significan	mentals of the biology of tro ce of tropical systems (ecos verse biomes are also highl	system goods and ec		
Intende	ed learning outcomes				
animal ve acqu	ecology of the tropics. The uired to the solution of cu	knowledge of ecological the ney will be qualified to inter urrent environmental risks.	pret scientific work a	nd apply the knowle	
		y contact hours, language –	– if other than Germa	n)	
V (2) + Module	S (1) e taught in: English				
		cope, language — if other th odule can be chosen to earn		tion offered — if not	every seme-
Studen Langua		f up to 3 candidates (30 to 6 t the method, length and sc an and/or English		nt prior to the cours	e.
	onal information				
Additio	onal information				
	• •				
Worklo	ad				
300 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination	on regulations for teaching-	degree programmes)		
Module	e appears in				
	's degree (1 major) Biolog	zv (2015)			
Master's degree (1 major) FOKUS Life Sciences (2015)					
Master's degree (1 major) Forces Life Sciences (2015) Master's degree (1 major) Biosciences (2016)					
		asium MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)
	-	acher Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
Master	's degree (1 major) Biosc				
	's degree (1 major) Biosci	iences (2018)			
		• • • • • • • • •	· · · · · · · · · ·		,
Master Supple		asium MINT Teacher Educat acher Education PLUS, Elite iences (2021)			020)

exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Module title					Abbreviation	
Anima	l Ecolog	y F1			07-MS1TÖF1-152-m	01
Modul	e coord	inator		Module offered by	<u>.</u>	
holder	of the O	Chair of Animal Ecology	y and Tropical Biology	Faculty of Biology		
ECTS	<u> </u>	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conter	-					
			cises and a seminar se			
			ng electives: 1. Wild an			
	ster): fundamentals and techniques of beekeeping, resource utilisation, behaviour experiments, pollinator diver- sity and plant-pollinator-interactions. 2. Ecology and taxonomy of insects (block, 2 weeks): observation and re-					
cording	g in the	habitat, identification	and characteristics of o	different arthropod g	roups, field experim	ents. 3. Eco-
-		•	urrent methods of ecol	• •		
			current issues in ecolog est control in landscape			
	-		opod communities in fo		-	-
			nd functional groups. 6			
			o be implemented in a			
		•	pics covered in the mo	dules listed above w	in be presented and	aiscussea.
· · · · · · · · · · · · · · · · · · ·		ning outcomes			• •••••••	
			nowledge on ecological rm, statistically analyse			
			nd possible sources of			
their ki	nowled	ge of the biology and e	cology of important fur	ictional taxa of arthr	opods. Students will	have acqui-
			ary to perform scientifie	c activities in the cor	ntext of an F2 practic	al course or a
	's thesi		tact hours language	if other than Corma		
P (14) +		, number of weekly cor	ntact hours, language –	- II other than Germa	IN)	
	• • •	t in: German and/or Er	nglish			
			language — if other the can be chosen to earn		tion offered — if not	every seme-
			utes, including multiple		or	
		pages) or	ates, metading mattipe			
			e each (30 to 60 minute			
			o 3 candidates (30 to 6	o minutes) or		
		n (20 to 45 minutes) ssessment: German ar	nd/or English			
	tion of p					
		hates				
Additio	nal inf	ormation				
Auditit						
Worklo	ad					
300 h						
-	ng cycl	2				
	ing cycl	5				
Referre	d to in	IPOI (examination re	gulations for teaching-o	degree programmes)		
			Sulations for teaching (
Master's w	ith 1 maio	Biosciences (2017)	IMU Würzburg	generated 19-Apr-2025 • exa	am. reg. da-	page 100 / 265
	,01		-	er (120 ECTS) Biowissenscha	-	

Module appears in

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

Master's degree (1 major) FOKUS Life Sciences (2015)

Master's degree (1 major) Biosciences (2016)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 101 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation			
Animal Ecology and Tropical Biology F2 07-MS1TÖF2-152-m01					01		
Module coordinator				Module offered by			
		Chair of Animal Ecology		Faculty of Biology			
ECTS		od of grading	Only after succ. con	npl. of module(s)			
15		successfully completed					
Durati		Module level	Other prerequisites	her prerequisites			
1 seme		graduate]				
velop tory ar scienti will als of Anin cal con contex inform WueCa Intend	hypothe ind will s ific pape so be re mal Eco urse in (at of an o ation of ampus, ed lear nts have	tical course, students wi eses, prepare a work sch tatistically analyse data er, including an introduc quired to present their f logy and Tropical Biolog Germany, another count ongoing research projec n the F2 practical course check out the notice boo ning outcomes e gained knowledge on e	edule, collect data, p. Students will docum ition, material and me indings during a wrap y offer a wide variety or ry in Europe or in the t t of the Institute or in as well as current top ard of the Chair or con	erform experiments ent the results of the thods, findings and -up seminar. The var of opportunities for s ropics. F2 practical of cooperation with oth bics or appointments tact the research gro nd methods used in	in the field, greenhou eir work in a log simi a discussion of thes ious research group students to complete courses may be comp her institutions. For n s for consultations, p pups directly. the fields of animal	use or labora- lar to a short e. Students s at the Chair e an F2 practi- pleted in the nore detailed lease refer to ecology and	
	ically. T	gy. They are qualified to hey have developed kno					
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	an)		
P (29) Modul		t in: German and/or Eng	lish				
		sessment (type, scope, l ion on whether module o			ition offered — if not	every seme-	
b) log c) oral d) oral e) pres Langu	 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English 						
Alloca	tion of _l	olaces					
Additi	onal inf	ormation	_				
Workload							
450 h							
Teaching cycle							
Paferred to in LPO L (examination regulations for teaching degree programmed)							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module appears in							
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016)							
Master's v	vith 1 majo	r Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 102 / 265	

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Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 103 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation	
Behavioural Physiology and Sociobiology F1				07-MS1VF1-152-m0	1	
Module coordinator						
holder of the Chair of Behavioral Physiology and Sociobio-			Module offered by			
holder logy	of the G	nair of Benavioral Phys	lology and Sociobio-	Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade	al grade			
Duration Module level Other prerequisites						
1 seme	semester graduate					
Conten	ts					
the cur physio ly analy	rent top logical, /sed, si	be integrated into one o bics in the field of behav neurobiological and be ummarised in a scientifi able topics and opportu	vioural physiology and havioural methods. Th c report and presente	l sociobiology. They ne results obtained v	will gain an insight i vill be graphically ar	nto the lates nd statistical-
Intende	ed learı	ning outcomes				
sociobi scienti	iology. fic audi		e to process and docu	iment the results ob	tained and to preser	
		, number of weekly cont	act hours, language –	- if other than Germa	in)	
P (14) + Module	• • •	t in: German and/or Eng	lish			
		s essment (type, scope, l on on whether module o			tion offered — if not	every seme-
c) oral d) oral e) pres	examin examin entatio	o pages) or ation of one candidate e lation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h		_	-			
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination reg	ulations for teaching-o	degree programmes)		
Module	e appea	in and a second s				
	-	ee (1 major) Biology (20:	-			
		ee (1 major) FOKUS Life S				
	-	ee (1 major) Biosciences			/	
		ning degree Gymnasium				016)
		y course MINT Teacher I		Network Bavaria (EN	В) (2016)	
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences		generated 19-Apr-2025 • exa	am, reg. da-	page 104 / 265
			-	er (120 ECTS) Biowissenscha	-	p



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 105 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Dahar	e title				Abbreviation	
Behavioural Physiology and Sociobiology F2				07-MS1VF2-152-m0	01	
Module coordinator			Module offered by			
holder of the Chair of Behavioral Physiology and Sociobio-			Faculty of Biology			
logy	orthe	chail of bellaviolal Physi	ology and Sociobio-	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
15		successfully completed		• • • •		
Duratio	on	Module level	Other prerequisites			
1 semester graduate						
Conten	ts					
the cur series a be grap	rent to and to phically	be integrated into one of pics in the field of behav apply the latest physiolo and statistically analyse rch groups at the Chair fo	ioural physiology and gical, neurobiologica ed, summarised in a s	l sociobiology. They l and behavioural m scientific report and	will learn to plan exp ethods. The results o	perimental obtained will
Intende	ed lear	ning outcomes				
sociobi ture, ar	iology. nd to p	are able to independentl In addition, they have le lace them in the context , number of weekly conta	arned to interpret the of other research in the	results obtained, ta ne field.	king into account cu	
P (29) +		,			,	
		t in: German and/or Eng	lish			
		sessment (type, scope, la ion on whether module c			ition offered — if not	every seme-
		mination (30 to 60 minut			or	
b) log (c) oral (d) oral e) prese	(15 to 3 examin examir entatio	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral (d) oral e) prese	(15 to 3 examin examir entatio age of a	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) Issessment: German and	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral (d) oral e) prese Langua	(15 to 3 examin examir entatio age of a	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) Issessment: German and	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral o d) oral e) preso Langua Allocat	15 to 3 examin examir entatio age of a ion of j	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral o d) oral e) preso Langua Allocat	15 to 3 examin examir entatio age of a ion of j	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral o d) oral e) preso Langua Allocat	15 to 3 examin examir entatio age of a ion of p	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral d d) oral e prese Langua Allocat Additio Worklo	15 to 3 examin examir entatio age of a ion of p	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral d d) oral d e) prese Langua Allocat Additio Worklo 450 h	15 to 3 examin examir entatio age of a ion of p onal inf	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral d d) oral e) prese Langua Allocat Additio Worklo	15 to 3 examin examir entatio age of a ion of p onal inf	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or	
b) log (c) oral o d) oral o e) prese Langua Allocat Additio ¥50 h Teachin 	15 to 3 examin examir entatio age of a ion of p onal inf pad	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places ormation	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or		
b) log (c) oral o d) oral o e) prese Langua Allocat Additio ¥50 h Teachin 	15 to 3 examin examir entatio age of a ion of p onal inf pad	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or		
b) log (c) oral o d) oral o e) prese Langua Allocat Additio Worklo 450 h Teachin Referre 	15 to 3 examin examin entatio age of a ion of p onal inf pad	e LPOI (examination regulation)	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or		
b) log (c) oral o d) oral o e) prese Langua Allocat Additio ¥Orklo 450 h Teachin Referre Module	15 to 3 examin examin entatio age of a ion of p onal inf pad	e LPOI (examination regulation of a ation of one candidate en- hation in groups of up to in (20 to 45 minutes) issessment: German and places e LPOI (examination regulars ars in	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or		
b) log (c) oral o d) oral o e) prese Langua Allocat Additio Worklo 450 h Teachin Referre Module	15 to 3 examin examin entatio age of a ion of p onal inf onal inf onal inf ed to in e appea	o pages) or nation of one candidate e nation in groups of up to n (20 to 45 minutes) issessment: German and places formation e (1 major) Biology (201	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or		
b) log (c) oral d d) oral e press Langua Allocat Worklo 450 h Teachin Referre Module Master Master	15 to 3 examin examin entatio age of a ion of p onal inf onal inf onal inf oad ad ed to in e appea 's degr	e LPO I (examination regulation) ars in e (1 major) Biology (201 e (1 major) Biology (201	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English /or English /or English /or English	e choice questions) s) or o minutes) or degree programmes)		
b) log (c) oral d d) oral e press Langua Allocat Additio Worklo 450 h Teachin Referre Master Master Master	15 to 3 examin examin entatio age of a ion of p onal inf onal inf onal inf ead ed to in e appea 's degr 's teac	e LPO I (examination regulars ars in e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biosciences hing degree Gymnasium	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English /or English	e choice questions) s) or o minutes) or degree programmes)	ork Bavaria (ENB) (2	016)
b) log (c) oral d d) oral e press Langua Allocat Additio Worklo 450 h Teachin Referre Module Master Master Supple	15 to 3 examin examin entatio age of a ion of p onal inf onal inf onal inf ead ed to in e appea 's degr 's teacl menta	o pages) or nation of one candidate en nation in groups of up to in (20 to 45 minutes) issessment: German and places ormation ee LPO I (examination regu ars in ee (1 major) Biology (201 ee (1 major) Biology (201	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English /or English	e choice questions) s) or o minutes) or degree programmes)	ork Bavaria (ENB) (2	016)
b) log (c) oral d d) oral e press Langua Allocat Worklo 450 h Teachin Referre Master Master Supple Master	is degr 's degr 's degr	e LPO I (examination regulars ars in e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biosciences hing degree Gymnasium	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English 	e choice questions) s) or o minutes) or degree programmes)	ork Bavaria (ENB) (2	016)
b) log (c) oral o d) oral o e) press Langua Allocat Additio Worklo 450 h Teachin Referre Master Master Master Master Master Master	15 to 3 examin examin entatio age of a ion of p onal inf onal inf is degradon 's degrad	e LPO I (examination regulation of solve company) (2010 ars in ee (1 major) Biology (201 ee (1 major) Biology (201) ee (1 major) Biology (2	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English /or Englis	e choice questions) or s) or o minutes) or degree programmes) ion PLUS, Elite Netw Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016)	

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 107 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Molecular Biology			07-MS2-152-m01			
Module coordinator		Module offered by				
Dean of Studies Biologie (Biology)			Faculty of Biology			
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
Develo cular b book " karyoti cells in quarte molecu Biology of the o nology time). prokan on mad cell div cation nisms	Molecular biology of the eukaryotic and prokaryotic cell. The lecture is a joint activity of the Chairs of Cell- and Developmental Biology, Microbiology, Biophysics and Bioinformatics and deals with concepts of modern mole- cular biology from the point of view of these different disciplines. Participants are recommended to read the text- book "Essential Cell Biology". The section on cell biology (app. a quarter of the lecture) mainly discusses the eu- karyotic cell and intends to elucidate the vast diversity in structure and function of molecules, organelles and cells in addition to fundamental principles of modern molecular cell biology. The bioinformatics section (app. a quarter of the lecture) contains a large amount of examples for applications which allow the investigation of the molecular biology of a cell with bioinformatic tools. We closely adhere to the contents of the book "Essential Cell Biology" and present many clear and useful examples for the application of our tools when working on the topics of the other three Chairs. Our vision: bioinformatics essentially is molecular biology based on computing tech- nology (time consuming "wet" experiments can be planned more easily and thus bioinformatics saves precious time). The microbiological section (app. a quarter of the lecture) deals with fundamental molecular aspects of prokaryotic cells. Key aspects include the organisation of the bacterial genome, the transcription and translati- on machinery, mechanisms of regulation of gene expression, transport of small molecules and macromolecules, cell division and differentiation, bacterial motility and chemotaxis, signal transduction and bacterial communi- cation mechanisms. Recommended reading: (a) Allgemeine Mikrobiologie (Fuchs) and (b) Biology of Microorga- nisms (Brock).					
		nowledge about the mole, number of weekly conta		· · ·	-	
V (3)		t in: German and/or Engl		in other than define		
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
c) oral d) oral	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English					
Allocat	tion of	places				
Additional information						
Workload						
300 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	Module appears in					
mouut	- apper					

Master's with 1 major Biosciences (2017)

Master's degree (1 major) Biology (2015) Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 109 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation				
Molec	Molecular Biology B 07-MS2B-152-m01							
Modul	e coord	inator		Module offered by				
Dean o	ean of Studies Biologie (Biology)		Faculty of Biology					
ECTS		od of grading	Only after succ. cor	npl. of module(s)				
7	(not) s	successfully completed						
Durati		Module level	Other prerequisites	Other prerequisites				
1 seme	ester	graduate						
Conter	Contents							
Develo cular b book " karyot cells ir quarte molect Biolog of the nology time). prokar on ma cell div cation nisms Intend	Molecular biology of the eukaryotic and prokaryotic cell. The lecture is a joint activity of the Chairs of Cell- and Developmental Biology, Microbiology, Biophysics and Bioinformatics and deals with concepts of modern mole- cular biology from the point of view of these different disciplines. Participants are recommended to read the text- book "Essential Cell Biology". The section on cell biology (app. a quarter of the lecture) mainly discusses the eu- karyotic cell and intends to elucidate the vast diversity in structure and function of molecules, organelles and cells in addition to fundamental principles of modern molecular cell biology. The bioinformatics section (app. a quarter of the lecture) contains a large amount of examples for applications which allow the investigation of the molecular biology of a cell with bioinformatic tools. We closely adhere to the contents of the book "Essential Cell Biology" and present many clear and useful examples for the application of our tools when working on the topics of the other three Chairs. Our vision: bioinformatics essentially is molecular biology based on computing tech- nology (time consuming "wet" experiments can be planned more easily and thus bioinformatics saves precious time). The microbiological section (app. a quarter of the lecture) deals with fundamental molecular aspects of prokaryotic cells. Key aspects include the organisation of the bacterial genome, the transcription and translati- on machinery, mechanisms of regulation of gene expression, transport of small molecules and macromolecules, cell division and differentiation, bacterial motility and chemotaxis, signal transduction and bacterial communi- cation mechanisms. Recommended reading: (a) Allgemeine Mikrobiologie (Fuchs) and (b) Biology of Microorga- nisms (Brock). Intended learning outcomes Master level knowledge about the molecular biology of the eukaryotic and prokaryotic cell. Courses (type, number of weekly contact hours, language — if other than German)							
V (3) Modul	e taugh	t in: German and/or Er	glish					
			language — if other th can be chosen to earn		ition offered — if not	t every seme-		
c) oral d) oral Studer	examin examin nts will l	ation of one candidate ation in groups of up t	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 method, length and sc id/or English	s) or o minutes)		е.		
Alloca	tion of p	olaces						
Additi	onal inf	ormation						
Workload								
210 h								
Teaching cycle								
Referred to in LPO L (examination regulations for teaching-degree programmes)								
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)							
Master's w	vith 1 majoı	Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 110 / 265		



Module appears in

Master's degree (1 major) Biology (2015) Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 111 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation			
Bioinfo	Bioinformatics 07-MS2BI-152-m01						
Modul	e coord	inator		Module offered by			
		Chair of Bioinformatics		Faculty of Biology	·		
ECTS		od of grading	Only after succ. con	, , ,			
10		rical grade		nly after succ. compl. of module(s)			
Duratio		Module level	Other prerequisites				
1 seme		graduate					
Conter		Sidduce					
Advan	ces and	current results of bioi	nformatics are explaine	d and discussed. th	is includes results fr	om genome	
and se	quence	analysis, protein dom	ains and protein famili of different functional	es, large-scale data a	analysis (e. g. net ge		
Intend	Intended learning outcomes						
Understand recent results in bioinformatics. Discuss their implications. Have an advanced (Master) level know- ledge of typical technologies and research questions in bioinformatics.							
Course	es (type	, number of weekly cor	itact hours, language –	- if other than Germa	ın)		
V (2) +							
		t in: German and/or En	<u> </u>				
			language — if other th can be chosen to earn		tion offered — if not	every seme-	
			utes, including multipl		or		
			each (30 to 60 minute				
			o 3 candidates (30 to 6	o minutes)			
		ssessment: German ar					
Alloca	tion of p	Diaces					
Additio	onal info	ormation					
			_				
Worklo	oad						
300 h							
Teachi	ng cycl	e					
Referre	ed to in	LPO I (examination re	gulations for teaching-	degree programmes)			
Modul	e appea	ars in					
Master	r's degr	ee (1 major) Biochemis	try (2015)				
Master	r's degre	ee (1 major) Biology (20	015)				
1	-	ee (1 major) Mathemat					
	-		onal Mathematics (201	6)			
	-	ee (1 major) Bioscience					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017)							
Master's degree (1 major) Biochemistry (2017) Master's degree (1 major) Biochemistry (2017)							
1	Master's degree (1 major) Biosciences (2018)						
	Master's degree (1 major) Bosciences (2018) Master's degree (1 major) Computational Mathematics (2019)						
	-	ee (1 major) Mathemat		~			
Master's w	vith 1 major	r Biosciences (2017)	-	e generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 112 / 265	

Master's degree (1 major) Biochemistry (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

exchange program Biosciences (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Computer Science (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Computer Science (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 113 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	Module title Abbreviation					
Bioinfo	ormatic	s F1			07-MS2BIF1-152-m0	01
Module	e coord	inator		Module offered by		
holder	holder of the Chair of Bioinformatics			Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	,		
10	i	rical grade		1		
Duratio	on	Module level	Other prerequisites			
1 seme		graduate				
Conten	its					
mics (s proteo netic a	Detailed insight into methods in bioinformatics; depending on the topic selected, fields covered include: geno- mics (sequence-, domain analysis and annotation), omics data analysis (NGS, transcriptomics, metabolomics, proteomics), topological and structural analysis of biological interactions including statistical methods, phyloge- netic analysis, protein structure analysis. Results are documented in the form of a presentation, a publication or a term paper.					
Intend	ed learı	ning outcomes				
are abl		e gained knowledge on e sign experiments, collec tice.				
Course	s (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
P (14) + Module		t in: German and/or Eng	lish			
		essment (type, scope, l on on whether module o			tion offered — if not	every seme-
c) oral d) oral e) pres Langua	examin examin entatio age of a	o pages) or ation of one candidate o lation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6			
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	 ulations for teaching-o	degree programmes)		
				<u> </u>		
Module	e appea	irs in				
		ee (1 major) Biology (20	15)			
	-	ee (1 major) Mathematic	-			
Master	's degr	ee (1 major) Computatio	nal Mathematics (201	6)		
Master's degree (1 major) Biosciences (2016)						
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
		•		Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Biosciences				
		ee (1 major) Biosciences				
Master's w	ith 1 majoi	Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschat	-	page 114 / 265

Master's degree (1 major) Computational Mathematics (2019)

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 115 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title Abbreviation						
Bioinformatics F2 07-MS2BIF2-152-m01						
Modul	e coord	inator		Module offered by	<u> </u>	
holder	of the (Chair of Bioinformatics		Faculty of Biology		
ECTS	T	od of grading	Only after succ. con			
15	1	successfully completed	·			
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conter	its					
mics (s proteo netic a ned an	Advanced insight into methods in bioinformatics; depending on the topic selected, fields covered include: geno- mics (sequence-, domain analysis and annotation), omics data analysis (NGS, transcriptomics, metabolomics, proteomics), topological and structural analysis of biological interactions including statistical methods, phyloge- netic analysis, protein structure analysis. The techniques applied are evaluated on the basis of the results obtai- ned and are modified where necessary. Results are documented in the form of a presentation, a publication or a term paper.					
Intend	ed lear	ning outcomes				
se a sc design	ientific a resea	one or more methods i project in the field of b arch project and are pre	ioinformatics and to depared for working on a	ocument the results a scientific question f	obtained. Students for their thesis.	-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
P (29) Module		t in: German and/or En	glish			
		essment (type, scope, on on whether module			tion offered — if not	every seme-
b) log (c) oral d) oral e) pres	(15 to 30 examin examir entatio	mination (30 to 60 min o pages) or ation of one candidate lation in groups of up t n (20 to 45 minutes) ssessment: German ar	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
450 h						
	ng cycl	6				
	0.7	-				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module appears in						
Master's degree (1 major) Biology (2015)						
Master's degree (1 major) Mathematics (2016)						
Master's degree (1 major) Computational Mathematics (2016)						
Master's degree (1 major) Biosciences (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
		ee (1 major) Bioscience				
Master's w	ith 1 majo	Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 116 / 265

Master's degree (1 major) Biosciences (2018)

Master's degree (1 major) Computational Mathematics (2019)

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 117 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Modul	Module title Abbreviation					
Biophy	/sics an	d Molecular Biotechnol	ogy		07-MS2BT-152-m01	
Modul	e coord	inator		Module offered by	<u> </u>	
holder	of the (Chair of Biotechnology a	nd Biophysics	Faculty of Biology		
ECTS		od of grading	Only after succ. con			
10		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conter	nts		1			
ture di moves single physio	This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lec- ture discusses fundamental aspects of thermodynamics, kinetics and molecular interactions. The course then moves on to discuss biophysical methods that facilitate the investigation of individual cells down to the level of single molecules. Focus is on electromanipulation and dielectric spectroscopy of cells, biomembranes, electro- physiology, ion channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy.					
Intend	ed lear	ning outcomes				
enable	them t	have acquired a knowled o independently review ary, will be able to indep	relevant literature. In	addition, they will ha	ave become acquain	ted with - or,
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
V (2) + Modul		t in: English				
Metho	d of ass	essment (type, scope, l on on whether module of			tion offered — if not	every seme-
c) oral d) oral Studer	examin examir nts will	nination (30 to 60 minu ation of one candidate e lation in groups of up to be informed about the m ssessment: German and	each (30 to 60 minute 3 candidates (30 to 6 nethod, length and sc	s) or o minutes)		2.
	tion of p		<u> </u>			
Additid	nal inf	ormation				
Auun						
Worklo	ad					
300 h						
-	ng cycl	٩				
	iis cyct	6	_			
Referre	ed to in	LPOI (examination reg		legree programmes)		
Modul	e appea	irs in				
		ee (1 major) Biochemistr	y (2015)			
Master's degree (1 major) Biology (2015)						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) Biosciences (2016)						
Master	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Master	r's degr	ee (1 major) Biosciences	(2017)			
	-	ee (1 major) Biochemistr				
Master's w	ith 1 majo	Biosciences (2017)		generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha		page 118 / 265

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Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biochemistry (2019) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 119 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title			Abbreviation	
Biophy	sics and Molecular Biotechno	logy B		07-MS2BTB-152-m0	1
Module	e coordinator		Module offered by		
holder	of the Chair of Biotechnology a	· · ·	Faculty of Biology		
ECTS	Method of grading	Only after succ. cor	npl. of module(s)		
5	numerical grade				
Duratio	on Module level	Other prerequisites	i		
1 seme	ster graduate				
Conten	ts				
ture dis moves of singl ques, b	cture provides a broad overvier scusses fundamental aspects on to discuss biophysical met le molecules. Focus is on elect biomembranes, electrophysiolog gh-resolution as well as dynam	of thermodynamics, ki hods that facilitate the romanipulation and d ogy, ion channels, pro	netics and molecula e investigation of ind ielectric spectroscop	r interactions. The co ividual cells down to y of cells, electrokine	urse then the level etic techni-
Intende	ed learning outcomes				
enable where r	ts will have acquired a knowle them to independently review necessary, will be able to inde	relevant literature. In pendently acquaint th	addition, they will have a series with - biop	ave become acquaint hysical mechanisms.	ed with - or,
	s (type, number of weekly con	act hours, language –	- if other than Germa	in)	
V (2) Module	e taught in: English				
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
d) oral Studen Langua	examination of one candidate examination in groups of up to ts will be informed about the r ge of assessment: German an	9 3 candidates (30 to 6 nethod, length and sc	o minutes)	nt prior to the course	
Allocat	ion of places				
Additio	nal information				
Worklo	ad				
150 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination reg	ulations for teaching-	degree programmes)		
Module	e appears in				
	's degree (1 major) Biology (20	-			
	's degree (1 major) FOKUS Life				
	's degree (1 major) Bioscience				
	's teaching degree Gymnasium				916)
	mentary course MINT Teacher		Network Bavaria (EN	B) (2016)	
	's degree (1 major) Bioscience				
	's degree (1 major) Bioscience 's toaching dogroo Cympacium		ion DILIS Elito Notw	ork Bayaria (END) (aa	
	's teaching degree Gymnasium ith 1 major Biosciences (2017)		generated 19-Apr-2025 • exa		page 120 / 265
	,		er (120 ECTS) Biowissenscha		,

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 121 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Modul				Abbreviation	
Biophy	sics and Molecular Biotechn	ology F1		07-MS2BTF1-152-m	01
Modul	e coordinator		Module offered by		
	of the Chair of Biotechnology	and Biophysics	Faculty of Biology		
ECTS	Method of grading	Only after succ. co	1 / -/		
10	numerical grade				
Duratio		Other prerequisite	s		
1 seme			•		
Conten					
methoo and mo	actical course provides stude ds. Under expert guidance, st olecular biotechnology, nano lorescence microscopy, fluore	udents will perform se and microsystems bio	lected experiments of technology, biomater	n the following topic ials and biosensors,	s: cellular high-resolu-
Intend	ed learning outcomes				
chanis tools. I have d Course	nted with - or, where necessa ms. Students will have acquin n the seminar, students will h elivered a short presentation (type, number of weekly co	ed practical experienc nave acquired detailed (15 minutes) on one of	e performing experim theoretical knowledg the experiments the	ents, using a variety ge on these experime y performed.	of scientific
P (14) + Module	+ S (1) e taught in: German and/or Ei	nglish			
ster, in a) writt b) log (c) oral d) oral e) pres	d of assessment (type, scope formation on whether module ten examination (30 to 60 mir (15 to 30 pages) or examination of one candidate examination in groups of up sentation (20 to 45 minutes) age of assessment: German a	e can be chosen to ear nutes, including multip e each (30 to 60 minut to 3 candidates (30 to 6	n a bonus) le choice questions) es) or		
Allocat	tion of places				
Additio	onal information				
Worklo	bad				
300 h					
-	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching	-degree programmes)		
Modul	e appears in				
Master Master Master Supple	r's degree (1 major) Biology (2 r's degree (1 major) FOKUS Lif r's degree (1 major) Bioscienc r's teaching degree Gymnasiu ementary course MINT Teache r's degree (1 major) Bioscienc	e Sciences (2015) es (2016) m MINT Teacher Educa r Education PLUS, Elite			016)
	vith 1 major Biosciences (2017)		• generated 19-Apr-2025 • exa	am. reg. da-	page 122 / 265
		_	ster (120 ECTS) Biowissenscha	-	

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Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 123 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation	
Biophysics an	d Molecular Biotechno		07-MS2BTF2-152-m	101	
Module coord	inator		Module offered by		
holder of the (Chair of Biotechnology	and Biophysics	Faculty of Biology		
	od of grading	Only after succ. con	n pl. of module(s)		
15 (not) s	successfully completed				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
This practical course provides students with an insight into different biotechnological and biophysical topics and is close to laboratory research. Under expert guidance, students will perform selected experiments on one of the following topics: cellular and molecular biotechnology, nano and microsystems biotechnology, biomaterials and biosensors, high-resolution fluorescence microscopy, fluorescence spectroscopy, analysis and electromanipulation of cells. Performing experiments under expert guidance, students will become acquainted with techniques and instruments. Over the duration of the course, students will then be required to work increasingly independently on current research topics. Work on current research topics will spark the students' interest in topics and will help them select a topic for their Master's thesis.					
Intended lear	ning outcomes				
They will be al develop a qua	ble to independently w Intitative understandin	th modern biophysical ork on scientific proble g of biophysical mecha ts and will give short p	ms, to independentl nisms. In the semina	y study relevant lite ar, students will acq	rature and to uire further
Courses (type	, number of weekly cor	tact hours, language –	- if other than Germa	n)	
P (29) + S (1) Module taugh	t in: German and/or Er	glish			
		language — if other th can be chosen to earn		tion offered — if not	every seme-
b) log (15 to 30 c) oral examin d) oral examir e) presentatio	o pages) or ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 nd/or English	s) or	Dr	
Allocation of p	olaces				
Additional inf	ormation				
Workload					
450 h					
Teaching cycl	e				
Referred to in	LPOI (examination re	gulations for teaching.	degree programmes)		
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module annos	ars in				
Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Master's with 1 majo	r Biosciences (2017)	-	generated 19-Apr-2025 • exa	-	page 124 / 265
		ta record Mast	er (120 ECTS) Biowissenschat	ten - 2017	

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2027)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 125 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	Module title Abbreviation					
Human	Genet	ics			07-MS2HG-152-m01	
Module	Module coordinator			Module offered by		
Manag	ing Dire	ector of the Institute of Hu	uman Genetics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
2 seme	ster	graduate				
Conten	ts					
This mo	odule v	vill discuss current topics	in human genetics.			
Intende	ed lear	ning outcomes				
Studen depth.	ts will	have gained the ability to	understand current	issues in human ger	netics and to discuss these in	
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	in)	
V (2) +	S (1)					
Module	e taugh	t in: German and/or Engli	ish			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
	ge of a	nation in groups of up to <u>s</u> ssessment: German and/ places		o minutes)		
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)		
Module						
	-	ee (1 major) Biology (201				
Master's degree (1 major) Biosciences (2016)						
Master's degree (1 major) Biosciences (2017)						
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences	(2021)			
		gram Biosciences (2022)				
	-	ee (1 major) Biosciences	-			
master	s uegr	ee (1 major) Biosciences	(2024)			

Human	e title				Abbreviation	
	Genet	ics F1			07-MS2HGF1-152-m01	
Module	e coord	linator		Module offered by	<u> </u>	
Manag	ing Dir	ector of the Institute of I	Human Genetics	Faculty of Biology	-	
ECTS	1	od of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
10		rical grade				
Duratio		Module level	Other prorequisites	Other prerequisites		
1 seme	-	graduate				
Conten		giadaate				
tific lab learn to	o projeo o apply	ct and learn how to pres	ent their data. They lease and methods of hu	arn to discuss their o man genetics, to ind	ing on a small, well-defined scien data in a seminar. The students ependently address scientific	
		ning outcomes				
Studen	its are		- ·	-	ell as to document, interpret and	
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	an)	
P (14) +	+ S (1)					
Module	e taugh	t in: German and/or En	glish			
		sessment (type, scope, ion on whether module			ation offered — if not every seme-	
b) log (c) oral d) oral e) pres	(15 to 3 examir examir entatic	mination (30 to 60 minu o pages) or nation of one candidate nation in groups of up to on (20 to 45 minutes) assessment: German an	each (30 to 60 minute 9 3 candidates (30 to 6	s) or		
Allocation of places						
Allocat		places				
Allocat		places				
		places				
 Additio	onal inf					
 Additio Worklo	onal inf					
 Additio Worklo 300 h	onal inf oad	ormation				
 Additio Worklo	onal inf oad	ormation				
 Additio Worklo 300 h	onal inf oad	ormation				
 Additio Worklo 300 h Teachin	onal inf oad ng cycl	ormation		degree programmes)		
 Additio Worklo 300 h Teachin	onal inf oad ng cycl	ormation		degree programmes)		
 Additio Worklo 300 h Teachin	onal inf oad ng cycl ed to in	ormation e LPOI (examination reg		degree programmes))	
 Additio 300 h Teachin Referre Module	onal inf oad ng cycl ed to in	ormation e LPOI (examination reg	gulations for teaching-	degree programmes)		
 Additio 300 h Teachin Referre Module	onal inf oad ng cycl ed to in e appea	e LPOI (examination reg	gulations for teaching-	degree programmes)		
 Additio 300 h Teachin Referre Module Master Master	onal inf oad ng cycl ed to in e appea ''s degr	e LPOI (examination reg ars in ee (1 major) Biology (20	gulations for teaching- 115) s (2016)	degree programmes)		
 Additio 300 h Teachin Referre Module Master Master Master	onal inf oad ng cycl ed to in e appea 's degr 's degr	e LPOI (examination reg ars in ee (1 major) Biology (20 ee (1 major) Bioscience	gulations for teaching- gulations for teaching- (15) s (2016) s (2017)	degree programmes,		
 Additio Worklo 300 h Teachin Referre Module Master Master Master Master	onal inf oad ng cycl ed to in e appea 's degr 's degr 's degr	e LPOI (examination reg ars in ee (1 major) Biology (20 ee (1 major) Bioscience ee (1 major) Bioscience	gulations for teaching- (15) s (2016) s (2017) s (2018)	degree programmes)		
 Additio 300 h Teachin Referre Module Master Master Master Master Master	onal inf oad ng cycl ed to in e appea 's degr 's degr 's degr 's degr	e LPOI (examination reg ars in ee (1 major) Biology (20 ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience	gulations for teaching- gulations for teaching- (2016) s (2017) s (2018) s (2021)	degree programmes)		

Module	title				Abbreviation	
Human	Human Genetics F2				07-MS2HGF2-152-m01	
Module	coord	inator		Module offered by		
			iman Genetics	Faculty of Biology		
Managing Director of the Institute of Human GeneticsECTSMethod of gradingOnly after succ			Only after succ. com			
		successfully completed				
Duratio	-	Module level	Other prerequisites			
1 semes		graduate				
Content	S	0	<u> </u>			
search p vanced	bapers techni	. The participants will be	involved in the deve	lopment of a researc	eading and presenting original re h plan and will learn to apply ad- tical course will have a duration	
Intende	d learı	ning outcomes				
Student	s are a				ll as to document, interpret and	
Courses	(type	, number of weekly conta	ct hours, language —	if other than Germa	ın)	
P (29) +						
		t in: German and/or Engl	ish			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
a) writte	n exai	nination (30 to 60 minut	es, including multiple	e choice questions) (or	
b) log (1	5 to 30	o pages) or				
		ation of one candidate e				
		ation in groups of up to g n (20 to 45 minutes)	3 candidates (30 to 6	o minutes) or		
		ssessment: German and,	/or English			
Allocati						
Addition	nal inf	ormation				
Workloa	nd					
450 h						
Teachin	g cycl	e				
Referred	l to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
Module	appea	irs in				
		ee (1 major) Biology (201	5)			
Master's	s degr	ee (1 major) Biosciences	(2016)			
	Master's degree (1 major) Biosciences (2017)					
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences	-			
Master's	s degr	ee (1 major) Biosciences	(2024)			

Module title				Abbreviation		
Immun	ology 1				07-MS2IM1-152-m01	
Module	coord	inator		Module offered by	· · · · · · · · · · · · · · · · · · ·	
Managi biology	-	ector of the Institute of Vi	rology and Immuno-	Faculty of Biology		
ECTS	Metho	d of grading	Only after succ. com	pl. of module(s)		
10	numei	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
www.vi	rologie				ormation is available at http:// ka/immunologie/immunolo-	
Intende	ed learr	ning outcomes				
		gain knowledge about, ar llular immunology.	nd will be able to pres	sent and discuss ba	sic concepts and methods in mo-	
Course	s (type,	number of weekly conta	ct hours, language —	· if other than Germa	n)	
V (1) + S Module	• •	t in: English				
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
b) log (: c) oral e d) oral e e) prese Langua	15 to 30 examin examin entatio ge of a	nination (30 to 60 minut o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) ssessment: German and, ffered: Winter semester o	ach (30 to 60 minutes 3 candidates (30 to 6 ⁄or English	s) or	Dr	
Allocat	ion of p	laces				
Additio	nal info	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	9				
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)		
Module	e appea	rs in				
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021)						
	-	ee (1 major) Biosciences				
Master'	Master's degree (1 major) Biosciences (2024)					

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 129 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Immunology 2	Module title					Abbreviation
Managing Director of the Institute of Virology and Immuno- biology Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 1 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents Recent progress in molecular and cellular immunology. Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, immetion immunology, and more. Intended learning outcomes Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module can be chosen to earn a bonus) a) written examination in groups of up to 3 candidates (30 to 60 minutes) or d) oral examination of one candidate each (30 to 60 minutes) or o) ral examination of groups of up to 3 candidates (30 to 60 minutes) or 0 oral examination in groups of up to 3 candidates (30 to 60 minutes) or Allocation of places <td>Immun</td> <td colspan="4"></td> <td>07-MS2IM2-152-m01</td>	Immun					07-MS2IM2-152-m01
biology ECTS Method of grading Only after succ. compl. of module(s) Intervical grade Contents Recent progress in molecular and cellular immunology, Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, immunogenetics, evolution of the immune system, infection immunology, and more. Intended learning outcomes Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language — if other than German) V(1) + 5 (2) Module taught in: English 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) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (5) to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment Offered: Summer semester only Allocation of places	Module	e coord	inator		Module offered by	
10 numerical grade - Duration Module level Other prerequisites 1 semester graduate Contents Recent porsess in molecular and cellular immunology. Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, infection immunology, and more. Intendection	-	-	ector of the Institute of Vi	rology and Immuno-	Faculty of Biology	
10 numerical grade - Duration Module level Other prerequisites 1 semester graduate Contents Recent porsess in molecular and cellular immunology. Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, infection immunology, and more. Intendection			od of grading	Only after succ. com	pl. of module(s)	
1 semester graduate Contents Recent progress in molecular and cellular immunology. Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, infection immunology, and more. Intended learning outcomes Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language — if other than German) V (1) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination (30 to 60 minutes, including multiple choice questions) or e) presentation (20 to 45 minutes) Language of assessment (Serman and/or English Assessment offered: Summer semester only Allocation of places	10	nume	rical grade			
Contents Recent progress in molecular and cellular immunology. Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, immunogenetics, evolution of the immune system, infection immunology, and more. Intendel learning outcomes Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language — if other than German) V (1) + S (2) Module taught in: English 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) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (1; to 30 pages) or c) oral examination for one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or d) oral examination for the dimension (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places	Duratio	n	Module level	Other prerequisites		
Recent progress in molecular and cellular immunology. Deeper insights into selected immunology chapters, such as autoimmunity and immunomodulation, development of the immune system, immunogenetics, evolution of the immune system, infection immunology, and more. Intended learning outcomes Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language — if other than German) V (1) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment. German and/or English Assessment offered: Summer semester only Allocation of places 	1 seme	ster	graduate			
as autoimmunity and immunomodulation, development of the immune system, immunogenetics, evolution of the immune system, infection immunology, and more. Intendel learning outcomes Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language — if other than German) V (1) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places	Conten	ts				
Students are able to understand current topics in immunology and to discuss these in detail. Courses (type, number of weekly contact hours, language — if other than German) V (1) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of nore candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places Additional information Workload 300 h Teaching cycle Module appears in Module appears in Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)	as auto	immur	nity and immunomodulati	on, development of t		
Courses (type, number of weekly contact hours, language — if other than German) V (1) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination of one candidate each (30 to 60 minutes) or d) oral examination of one candidate each (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places	Intende	ed lear	ning outcomes			
V (1) + S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places 	Studen	ts are a	able to understand currer	nt topics in immunolo	gy and to discuss th	iese in detail.
Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places Additional information Workload 300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degre	Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)
ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places Morkload 300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)		• •	t in: English			
b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Assessment offered: Summer semester only Allocation of places Additional information Workload 300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)						tion offered — if not every seme-
Additional information Additional information Additional information Additional information Additional information Workload 300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)	b) log (: c) oral e d) oral e e) prese Langua	15 to 30 examin examir entatio ge of a	o pages) or ation of one candidate ea nation in groups of up to g n (20 to 45 minutes) ssessment: German and/	ach (30 to 60 minutes 3 candidates (30 to 6 ⁄or English	s) or	
Workload 300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)	Allocat	ion of p	olaces			
Workload 300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)						
300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)	Additio	nal inf	ormation			
300 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)						
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)		ad				
 Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) 	-					
Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)	Teachir	ıg cycl	e			
Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)						
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)	Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)						
Master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)						
Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)		-				
Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)		-				
Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)		-				
Master's degree (1 major) Biosciences (2023)		-				
		-				
		-				

Module title					Abbreviation		
Immun	ology I	-1			07-MS2IMF1-152-m	01	
Module	e coord	inator		Module offered by	<u>I</u>		
Manag biology	-	ector of the Institute of	Virology and Immuno-	Faculty of Biology			
ECTS		od of grading	Only after succ. con	pl. of module(s)			
10		rical grade		• • • •			
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	its						
becom lect a la infectio course	Students will complete a 2-week lab course at the Institute of Virology and Immunobiology during which they will become familiar with fundamental methods in cellular and molecular immunology. Afterwards, students will select a laboratory at the Institute or one of the participating institutions (e.g. clinics, Virchow Center, molecular infection immunology and others) and will spend three weeks working on a defined project. Results of the lab course and lab project will be documented in a log and will be presented at the end of the course.						
	-	ning outcomes					
		learn to apply experime stions and to appropria			ogy, to independently	y address	
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	an)		
P (14) + Module		t in: German and/or En	glish				
		sessment (type, scope,	-	an German, examina	ation offered — if not	every seme-	
ster, in	format	ion on whether module	can be chosen to earn	a bonus)		every serie	
b) log ((15 to 3	mination (30 to 60 min o pages) or	_ ,	·	or		
		ation of one candidate					
		nation in groups of up t n (20 to 45 minutes)	o 3 candidates (30 to 6	o minutes) or			
		ssessment: German ar	d/or English				
Allocat							
Additio	nalinf	ormation					
Additio	matim						
Worklo	ad						
300 h							
Teachi	ng cycl	e					
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)			
Module	Module appears in						
Master	Master's degree (1 major) Biology (2015)						
Master's degree (1 major) Biosciences (2016)							
	Master's degree (1 major) Biosciences (2017)						
	Master's degree (1 major) Biosciences (2018)						
	Master's degree (1 major) Biosciences (2021)						
	-	ee (1 major) Bioscience					
master	s uegr	ee (1 major) Bioscience	:5 (2024)				
Master's w	ith 1 majo	r Biosciences (2017)	-	generated 19-Apr-2025 • ex er (120 ECTS) Biowissenscha	-	page 131 / 265	

Module title Abbreviation			Abbreviation		
Immun	ology F	2			07-MS2IMF2-152-m01
Module	e coord	inator		Module offered by	
Managi biology	-	ector of the Institute of Vi	rology and Immuno-	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
15	(not) s	successfully completed	-		
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Contents					
investig indepe	gate cu ndently	rrent problems in immun / apply advanced technic	ology. They will be in	volved in the develo	participants will independently pment of a research plan and will plogy.
Intende	ed learı	ning outcomes			
nology.	This ir		ddress immunologica	al problems on their	of cellular and molecular immu- own and to conduct, document
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	ın)
P (29) + Module		t in: German and/or Engl	ish		
Method	d of ass	essment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-
		on on whether module ca			,
b) log (c) oral (d) oral e) pres	15 to 30 examin examin entatio	nination (30 to 60 minut p pages) or ation of one candidate e lation in groups of up to g n (20 to 45 minutes) ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6	s) or	or
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
450 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Module	e appea	urs in			
Master	's degr	ee (1 major) Biology (201	5)		
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences ee (1 major) Biosciences	-		
master	Jacon		(

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	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Infectio	on Biolo	ogy			07-MS2INF-152-m0	1
Module	e coord	inator		Module offered by	<u> </u>	
holder	of the (Chair of Microbiology		Faculty of Biology		
ECTS	-	od of grading	Only after succ. con			
10	<u> </u>	rical grade		• • • • •		
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conten	nts					
al path	ogenici		logy and infection biol f virulence, mechanisn			
Intend	Intended learning outcomes					
The students are able to understand fundamental theories of molecular microbiology and infection biology, emergence of infectious diseases.						
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	ın)	
	V (2) + S (1) Module taught in: German and/or English					
			language — if other th		tion offered — if not	every seme-
	-		can be chosen to earn	-		
c) oral d) oral	examin examin	ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 nd/or English	s) or	or	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
-	ng cycl	A				
	ing cycl					
Deferre	d to in	IDO L (avamination to	gulations for taashing	dagraa programmac)		
Referre			gulations for teaching-	legiee programmes)		
	e appea)			
	-	ee (1 major) Biology (20				
	-	ee (1 major) Bioscience	n MINT Teacher Educat	ion DLUS Elito Notw	ork Bayaria (ENB) (a	016)
			Education PLUS, Elite			010)
		ee (1 major) Bioscience			D) (2010)	
	-	ee (1 major) Bioscience				
	-		n MINT Teacher Educat	ion PLUS, Flite Netwo	ork Bavaria (FNB) (2	020)
			Education PLUS, Elite			
		ee (1 major) Bioscience			_, (,	
	-	gram Biosciences (202				
		ee (1 major) Bioscience				
		ee (1 major) Bioscience				
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	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title			Abbreviation				
Infectio	on Biology B			07-MS2INF-B-152-m	101			
Module	e coordinator		Module offered by					
	· · · · · · · · · · · · · · · · · · ·							
nolder ECTS	of the Chair of Microbiology Method of grading	Only after succ. com	Faculty of Biology					
5	(not) successfully complete							
) Duratio		Other prerequisites						
1 seme								
Conten								
Fundan al path	nentals of molecular microbio ogenicity factors, regulation ds in infection biology.							
Intende	Intended learning outcomes							
	idents are able to understand ence of infectious diseases.	l fundamental theories o	of molecular microbi	ology and infection	biology,			
Course	s (type, number of weekly co	ntact hours, language —	if other than Germa	n)				
V (2)	,							
Module	e taught in: German and/or E	nglish						
	d of assessment (type, scope formation on whether modul			tion offered — if not	every seme-			
c) oral d) oral Langua	en examination (30 to 60 min examination of one candidat examination in groups of up uge of assessment: German a	e each (30 to 60 minute to 3 candidates (30 to 6	s) or					
Allocat	ion of places							
Additio	onal information							
Worklo	ad							
150 h								
Teachi	ng cycle							
Referre	ed to in LPO I (examination re	gulations for teaching-c	legree programmes)					
Module	e appears in							
	's degree (1 major) Biology (2	015)						
	's degree (1 major) Bioscienc	-						
	's teaching degree Gymnasiu		on PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)			
Supple	mentary course MINT Teache	r Education PLUS, Elite I	Network Bavaria (EN	B) (2016)				
	's degree (1 major) Bioscienc							
Master's degree (1 major) Biomedicine (2018)								
Master's degree (1 major) Biosciences (2018)								
Master	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)							
Master Master	,	Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)						
Master Master Supple	mentary course MINT Teache	r Education PLUS, Elite I	Network Bavaria (EN		020)			
Master Master Supple Master	mentary course MINT Teache 's degree (1 major) Bioscienc	r Education PLUS, Elite I es (2021)	Network Bavaria (EN		020)			
Master Master Supple Master exchan	mentary course MINT Teache	r Education PLUS, Elite I es (2021) 22)	Network Bavaria (EN		020)			
Master Master Supple Master exchan Master	mentary course MINT Teache 's degree (1 major) Bioscienc ge program Biosciences (202	r Education PLUS, Elite I es (2021) e2) es (2023)	Vetwork Bavaria (EN	B) (2020)	020) page 135 / 265			



Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 136 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Modul	e title				Abbreviation
Microb	oiology	F1			07-MS2MF1-152-m01
Modul	e coord	inator		Module offered by	
holder	of the (Chair of Microbiology		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	graduate			
Conter	nts				
Participants will work independently on a current research project dealing with microbial pathogens and their in- teractions with the host. Participants will employ a variety of state-of-the-art methods within the fields of molecu- lar biology, microbiology, cellular biology, and immunology as well as data analysis and literature research tech- niques. Results will be documented and discussed in a seminar paper or an oral presentation.					
Intend	ed lear	ning outcomes			
					s in molecular biology and infecti- s of good scientific practice.
Course	es (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
P (14) - Modul		t in: German and/or Engl	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) log (c) oral d) oral e) pres	(15 to 30 examin examir entatio	mination (30 to 60 minut p pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6	s) or	
	tion of p	-			
Additio	onal inf	ormation			
The int	ernship	must be completed full-	time within a period	of 5 to 6 weeks.	
Worklo	oad				
300 h					
Teachi	ng cycl	e			
Teachi mester		e: Ongoing, after consulta	ation with the superv	isor and registration	for both winter and summer se-
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Modul	e appea	urs in			
Master Master Master Supple Master	r's degro r's degro r's teach ementai r's degro	ee (1 major) Biology (2019 ee (1 major) FOKUS Life S ee (1 major) Biosciences ning degree Gymnasium I y course MINT Teacher Ec ee (1 major) Biosciences ee (1 major) Biosciences	ciences (2015) (2016) MINT Teacher Educat ducation PLUS, Elite ((2017)		
	-	ning degree Gymnasium I		ion PLUS, Elite Netwo	ork Bavaria (ENB) (2020)

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 138 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title					Abbreviation	
Microb	oiology	F2			07-MS2MF2-152-m	01
Module	e coord	inator		Module offered by		
holder	of the (Chair of Microbiology		Faculty of Biology		
ECTS	1	od of grading	Only after succ. con	, , ,		
15		successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conten	its					
Participants will work independently on a current research project dealing with microbiology and infection biology. They will apply advanced experimental techniques in microbiology, cell biology and molecular biology according to the project requirements. Progress of the research project will be reported in a seminar paper, a research paper or an oral presentation.						
Intend	ed lear	ning outcomes				
biology		its will acquire the skills ling to the standards of results.				
Course	s (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
P (29) · Module		t in: German and/or Eng	lish			
		essment (type, scope, l on on whether module o			tion offered — if not	every seme-
c) oral d) oral e) pres Langua	examin examir entatio	o pages) or ation of one candidate e lation in groups of up to n (20 to 45 minutes) ssessment: German anc blaces	3 candidates (30 to 6	-		
Additio	onal inf	ormation	_			
The int	ernship	must be completed full	-time within a period	of 10 to 12 weeks.		
Worklo	ad					
450 h						
Teachi	ng cycl	e				
Teachi mester	• •	e: Ongoing, after consult	ation with the superv	isor and registration	for both winter and	summer se-
Referre	ed to in	LPO I (examination reg	ulations for teaching-	legree programmes)		
Module appears in						
Master	's degr	ee (1 major) Biology (201	15)			
Master Supple Master Master	's teach ementai 's degr 's degr	ee (1 major) Biosciences ning degree Gymnasium y course MINT Teacher E ee (1 major) Biosciences ee (1 major) Biosciences	MINT Teacher Educat Education PLUS, Elite (2017) (2018)	Network Bavaria (EN	B) (2016)	
		ning degree Gymnasium				020)
		y course MINT Teacher E Biosciences (2017)	JMU Würzburg •	Network Bavaria (EN generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	am. reg. da-	page 139 / 265

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Pathog	e title				Abbreviation	
	enicity of Mi	croorganisms			07-MS2PA-152-m01	
Module	e coordinator			Module offered by		
		of Microbiology		Faculty of Biology		
ECTS	Method of g		Only after succ. con			
10	numerical g	-				
Duratio		ile level				
1 seme			Other prerequisites			
	. 1*	late				
Conten						
ted pro		eukaryotic patho	of action of microbial p gens as model organis			
	ed learning o					
			nowledge in infection	piology and pathoge	nicity research and t	he mecha-
		ious diseases.				e meenu
Course	s (type, num	per of weekly con	tact hours, language –	· if other than Germa	n)	
V (2) +					,	
	e taught in: Er	nglish				
			language — if other tha	an German, examina	tion offered — if not	every seme
			can be chosen to earn		in the second of the second se	in the second
a) writt	en examinati	on (30 to 60 minu	ites, including multiple	e choice questions) (Dr	
			each (30 to 60 minute			
			o 3 candidates (30 to 6	o minutes)		
Langua	ge of assess	ment: German an	d/or English			
Allocat	ion of places					
Addition						
Auditio	onal informati	ion				
	onal informati	on				
	· · · · · · · · · · · · · · · · · · ·	ion	_			
 Worklo	· · · · · · · · · · · · · · · · · · ·	ion				
 Worklo 300 h	ad	ion				
 Worklo 300 h	· · · · · · · · · · · · · · · · · · ·	ion				
 Worklo 300 h Teachin	ad ng cycle					
 Worklo 300 h Teachin	ad ng cycle		gulations for teaching-o	legree programmes)		
 Worklo 300 h Teachin	ad ng cycle		gulations for teaching-o	legree programmes)		
 Worklo 300 h Teachin Referre	ad ng cycle		gulations for teaching-o	legree programmes)		
 Worklo 300 h Teachin Referre Module	ad ng cycle ed to in LPO I e appears in			legree programmes)		
 Worklo 300 h Teachin Referre Module Master	ng cycle ed to in LPO I e appears in 's degree (1 n	(examination reg	15)	legree programmes)		
 Worklo 300 h Teachin Referre Module Master Master Master	ad ng cycle ed to in LPO I e appears in 's degree (1 n 's degree (1 n 's teaching do	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium	15) s (2016) 1 MINT Teacher Educat	ion PLUS, Elite Netwo		016)
 Worklo 300 h Teachin Referre Module Master Master Supple	ad ng cycle ed to in LPO I e appears in 's degree (1 n 's teaching do mentary cour	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium se MINT Teacher	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I	ion PLUS, Elite Netwo		016)
 Worklo 300 h Teachin Referre Module Master Master Supple Master	ad ng cycle ed to in LPO I e appears in 's degree (1 n 's degree (1 n 's teaching do mentary cour 's degree (1 n	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium se MINT Teacher najor) Bioscience	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017)	ion PLUS, Elite Netwo		016)
 Worklo 300 h Teachin Referre Master' Master' Master' Supple Master' Master' Master' Master'	ad ng cycle ed to in LPO I e appears in 's degree (1 n 's teaching do mentary cour 's degree (1 n 's degree (1 n 's degree (1 n	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience najor) Bioscience	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018)	ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016)	
 Worklo 300 h Teachin Referre Master'	ad ng cycle ed to in LPO I e appears in 's degree (1 n 's teaching do mentary cour 's degree (1 n 's degree (1 n 's degree (1 n 's degree (1 n	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium se MINT Teacher najor) Bioscience najor) Bioscience egree Gymnasium	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
 300 h Teachin Referre Master Master Master Supple Master Master Master Supple	ad ng cycle ed to in LPO I e appears in 's degree (1 n 's teaching de mentary cour 's degree (1 n 's degree (1 n 's teaching de mentary cour	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium se MINT Teacher najor) Bioscience najor) Bioscience egree Gymnasium se MINT Teacher	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
 300 h Teachin Referre Master Master Master Master Master Master Supple Master Supple Master	ad ng cycle ed to in LPO I e appears in 's degree (1 m 's teaching de mentary cour 's degree (1 m 's degree (1 m 's teaching de mentary cour 's teaching de mentary cour 's degree (1 m	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I s (2021)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
 300 h Teachin Referre Master Master Master Master Master Master Master Supple Master Supple Master Supple	ed to in LPO I ed to in LPO I e appears in 's degree (1 n 's teaching do mentary cour 's degree (1 n 's degree (1 n 's teaching do mentary cour 's degree (1 n 's teaching do mentary cour 's degree (1 n ge program E	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience egree Gymnasium	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I s (2021) 2)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
 Worklo 300 h Teachin Referre Module Master Master Master Master Master Supple Master Supple Master Master Master Master Master Master Master Master Master Master	ad ng cycle ed to in LPO I e appears in 's degree (1 m 's teaching do mentary cour 's degree (1 m 's teaching do mentary cour 's degree (1 m 's teaching do mentary cour 's degree (1 m 's degree (1 m) 's degree (1 m)	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium se MINT Teacher najor) Bioscience egree Gymnasium se MINT Teacher najor) Bioscience egree Gymnasium se MINT Teacher najor) Bioscience Biosciences (2022	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I s (2021) 2) s (2023)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
 Worklo 300 h Teachin Referre Module Master Master Master Master Master Supple Master Supple Master Master Master Master Master Master Master Master Master Master Master	ad ng cycle ed to in LPO I e appears in 's degree (1 m 's teaching do mentary cour 's degree (1 m 's teaching do mentary cour 's degree (1 m 's teaching do mentary cour 's degree (1 m 's degree (1 m) 's degree (1 m)	(examination reg najor) Biology (20 najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience egree Gymnasium rse MINT Teacher najor) Bioscience egree Gymnasium	15) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I s (2021) 2) s (2023)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 142 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title			Abbreviation	
Pathog	enicity of Microorganisms B			07-MS2PA-B-152-m	01
Module	e coordinator		Module offered by		
	of the Chair of Microbiology		Faculty of Biology		
ECTS	Method of grading	Only after succ. con	, -,		
5	(not) successfully completed				
Duratio	on Module level	Other prerequisites			
1 seme					
Conten	ts				
ted pro on biol	nental principles of the mode karyotic and eukaryotic path ogy will be presented.				
Intende	ed learning outcomes				
	ts have gained fundamental behind infectious diseases.	knowledge in infection	biology and pathoge	nicity research and t	the mecha-
Courses (type, number of weekly contact hours, language — if other than German)					
V (2)	· · · ·				
Module	e taught in: English				
	d of assessment (type, scope formation on whether module			tion offered — if not	every seme-
	en examination (30 to 60 mir			or	
c) oral	examination of one candidate	e each (30 to 60 minute	s) or		
	examination in groups of up		o minutes)		
	ige of assessment: German a	nd/or English			
Allocat	ion of places				
Additio	onal information				
Worklo	ad				
150 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
Module	e appears in				
Master	's degree (1 major) Biology (2	015)			
Master	's degree (1 major) Bioscience	es (2016)			
	's teaching degree Gymnasiu				016)
	mentary course MINT Teache		Network Bavaria (EN	B) (2016)	
	's degree (1 major) Bioscienc				
	's degree (1 major) Biomedici				
	's degree (1 major) Bioscienc 's teaching degree Gymnasiu		ion PLUS Elita Notw	ork Bayaria (ENR) (a	020)
	mentary course MINT Teache				020)
	's degree (1 major) Bioscience			_, (_0_0)	
	ge program Biosciences (202				
	's degree (1 major) Bioscienc				
Naster's wi	ith 1 major Biosciences (2017)	-	generated 19-Apr-2025 • exa	-	page 143 / 265
		ta record Mast	er (120 ECTS) Biowissenscha	ften - 2017	



Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 144 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

DI	e title				Abbreviation
Physio	logical	Chemistry F2			07-MS2PHF2-152-m01
Module	e coord	inator		Module offered by	<u> </u>
		Chair of Biochemistry an	d Molecular Biology	Faculty of Biology	
ECTS	ľ	od of grading	Only after succ. con	, , ,	
15		successfully completed			
Duratio		Module level	Other prorequisites		
1 seme		graduate	Other prerequisites)	
Conten		graduate			
investig	gate cu nd will	irrent problems in physic	ological chemistry. The	ey will be involved in	, participants will independently n the development of a research gy and/or developmental bioche
		ning outcomes			
mistry.	They a				logy and developmental bioche nent, interpret and discuss their
results.		, number of weekly cont	act hours language -	- if other than Germa	an)
		, number of weekly colli	aet nours, language –	i otilei tilali delilla	<i>(</i> 11 <i>)</i>
P (29) + Module		t in: German and/or Eng	lish		
Method	u ui as:		anguage if other the	an Corman ovaming	tion offered if not every come
					ation offered — if not every seme
ster, in	format	ion on whether module o	can be chosen to earn	a bonus)	
ster, in a) writt	format en exa	ion on whether module o mination (30 to 60 minu	can be chosen to earn	a bonus)	
ster, in a) writt b) log (format en exa (15 to 3	ion on whether module o mination (30 to 60 minu o pages) or	can be chosen to earn tes, including multiple	a bonus) e choice questions)	
ster, in a) writt b) log (c) oral (format en exa (15 to 3 examir	ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate o	can be chosen to earn tes, including multiple each (30 to 60 minute	a bonus) e choice questions) s) or	
ster, ini a) writt b) log (c) oral (d) oral e) prese	format en exa (15 to 3) examir examir entatio	ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate o nation in groups of up to on (20 to 45 minutes)	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, ini a) writt b) log (c) oral (d) oral e) prese	format en exa (15 to 3) examir examir entatio	ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate o nation in groups of up to	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, ini a) writt b) log (c) oral (d) oral e) prese	format en exa (15 to 3) examir examir entatio age of a	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) assessment: German and	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral (d) oral e) prese Langua	format en exa (15 to 3) examir examir entatio age of a	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) assessment: German and	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral (d) oral e) prese Langua Allocat	format en exa (15 to 3 examir examir entatio age of a :ion of [ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) assessment: German and	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral (d) oral e) prese Langua Allocat	format en exa (15 to 3 examir examir entatio age of a :ion of [ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) issessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral d d) oral e) preso Langua Allocat Additio	format en exa (15 to 3 examir examir entatio age of a ion of p	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) issessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral d d) oral e) prese Langua Allocat Additio Worklo	format en exa (15 to 3 examir examir entatio age of a ion of p	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) issessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 450 h	format en exa (15 to 3 examir entatio age of a ion of (ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate o nation in groups of up to on (20 to 45 minutes) issessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 450 h	format en exa (15 to 3 examir entatio age of a ion of (ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate o nation in groups of up to on (20 to 45 minutes) issessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6	a bonus) e choice questions) s) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 450 h Teachin 	format en exa (15 to 3 examir examir entatio age of a ion of onal inf	ion on whether module o mination (30 to 60 minu o pages) or nation of one candidate o nation in groups of up to on (20 to 45 minutes) issessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 l/or English	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 450 h Teachin 	format en exa (15 to 3 examir examir entatio age of a ion of onal inf	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) assessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 l/or English	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 450 h Teachin 	format en exa (15 to 3) examir examir entatio age of a tion of p onal inf pad	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) essessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 l/or English	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) prese Langua Allocat Additio 450 h Teachin Referre Module	format en exa (15 to 3 examir examir entation age of a tion of ponal inf ponal inf pon	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) essessment: German and places	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 l/or English ulations for teaching-o	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 450 h Teachin Referre Module	format en exa (15 to 3) examir examir entation age of a tion of p onal inf onal inf onal inf onal inf ed to in e appea	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) issessment: German and places formation e LPO I (examination reg	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 d/or English ulations for teaching-o	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Korklo 450 h Teachin Referre Master Master	format en exa (15 to 3) examir examir examir entatio age of a ion of p onal inf onal inf onal inf onal inf e appea 's degr 's degr	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) essessment: German and places formation ee LPO I (examination reg ars in ee (1 major) Biology (200	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 l/or English ulations for teaching-out 15) 5 (2016)	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) prese Langua Allocat Additio 450 h Teachin Referre Master Master Master	format en exa (15 to 3) examir examir entationage of a tion of onal inf onal inf onal inf onal inf oad ed to in e appea ''s degr ''s degr	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) issessment: German and places formation ee LPO I (examination reg ars in ee (1 major) Biology (20) ee (1 major) Biosciences	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 d/or English ulations for teaching-out (2016) 5 (2017)	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Modultio Worklo 450 h Teachin Referre Master Master Master Master	format en exa (15 to 3) examir examir examir entation age of a tion of p onal inf onal inf onal inf onal inf onal inf onal inf or cycl ed to in e appea d's degr d's degr d's degr	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) issessment: German and places formation e E LPO I (examination reg ars in ee (1 major) Biology (200 ee (1 major) Biosciences ee (1 major) Biosciences	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 d/or English ulations for teaching-out i5) 5 (2016) 5 (2017) 5 (2018)	a bonus) e choice questions) es) or o minutes) or	or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Module Moster Master Master Master Master Master	format en exa (15 to 3) examir entation age of a cion of p onal inf onal in	ion on whether module of mination (30 to 60 minu o pages) or nation of one candidate of nation in groups of up to on (20 to 45 minutes) assessment: German and places formation ee LPO I (examination reg ars in ee (1 major) Biology (20 ee (1 major) Biosciences ee (1 major) Biosciences ee (1 major) Biosciences	can be chosen to earn tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 d/or English ulations for teaching-out (2017) (2018) (2021)	a bonus) e choice questions) es) or o minutes) or	or

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 145 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation		
Topics in Bioinformatics 07-MS2TBI-152-m01				07-MS2TBI-152-m01	
Modul	e coord	inator		Module offered by	
holder	of the	Chair of Bioinformatics		Faculty of Biology	
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conter	nts				
and se	quence		ns and protein familie	es, large-scale data a	is includes results from genome analysis (e. g. next generation se- IncRNAs).
Intend	ed lear	ning outcomes			
		able to understand recent anced knowledge about ty			eir implications. They have deve- nd scientific questions.
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)
V (2) + Module		t in: English			
		s essment (type, scope, la ion on whether module ca			tion offered — if not every seme-
c) oral d) oral Studer	examir examir nts will	mination (30 to 60 minut nation of one candidate ea nation in groups of up to 3 be informed about the ma ussessment: German and	ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	s) or o minutes)	
Allocat	tion of	places			
Additio	onal inf	ormation			
	_				
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
Modul	e appea	ars in			
Master	's degr	ee (1 major) Biology (201	5)		
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
	0	ee (1 major) Biosciences	. ,		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
		ee (1 major) Biosciences ee (1 major) Biosciences			
	-	ee (1 major) FOKUS Life S			
	- 0-	. , ,	×		

Module					Abbreviation	
Cell and	d Deve	opmental Biology Mas	ter 1		07-MS2ZE1-152-m0	1
Module	coord	inator		Module offered by	<u> </u>	
		Chair of Cell Biology and	d Developmental Bio-	Faculty of Biology		
logy	orthet	chair of Cell Diology and	a Developmental bio-			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10		rical grade				
Duratio	L	Module level	Other prerequisites			
1 seme		graduate				
Conten		Sidduite				
<i>und Pel</i> cell and lic diso	rs <i>pekti</i> d unrav rders a	onsists of the lecture Ze ven (Milestones and Pe els their biological cau nd cancer. In the semir ne field of cell biology a	rspectives of Cell Biolo ses and consequences har Milestones and Per	gy). The lecture deso s, such as infection, spectives of Cell Biol	cribes pathological s apoptosis, senescen <i>ogy</i> , classic ground-	tates of the ice, metabo-
Intende	ed leari	ning outcomes				
		sess a knowledge of the context of cell biology		underlying cell path	ology and are able t	o put this in-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	in)	
V (1) + S Module	• •	t in: German and/or En	glish			
		essment (type, scope, on on whether module			tion offered — if not	every seme-
		nination (30 to 60 mini		-	or	
		ation of one candidate				
d) oral	examin	ation in groups of up to	o 3 candidates (30 to 6	-		
Langua	ge of a	ssessment: German an	d/or English			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ig cycl	8				
Referre	d to in	LPOI (examination reg	gulations for teaching-o	degree programmes)		
Module	e appea	ins in				
Master	's degr	ee (1 major) Biology (20	15)			
Master	's degr	ee (1 major) Bioscience	s (2016)			
		ning degree Gymnasiun				016)
		y course MINT Teacher		Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience)
		ning degree Gymnasiun				020)
		y course MINT Teacher		ivetwork Bavaria (EN	в) (2020)	
master	s uegr	ee (1 major) Bioscience	5 (2021)			
Master's wi	ith 1 majoi	Biosciences (2017)	JMU Würzburg •	generated 19-Apr-2025 • ex	am. reg. da-	page 147 / 265
			ta record Mast	er (120 ECTS) Biowissenscha	ften - 2017	

exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module title Abbreviation			Abbreviation			
Cell and	d Deve	opmental Biology Mas	ter 2		07-MS2ZE2-152-mc	01
Module	e coord	inator		Module offered by		
holder logy	of the (Chair of Cell Biology and	d Developmental Bio-	Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
wicklun lecture portant sented. tic cell within o ground	The module consists of the lecture <i>Signale und Differenzierung</i> (Signals and Differentiation) and the seminar <i>Entwicklungsbiologie - Meilensteine und Perspektiven</i> (<i>Milestones and Perspectives of Developmental Biology</i>). The lecture <i>Signals and Differentiation</i> does not attempt to impart pure textbook knowledge. Instead, historically important as well as particularly interesting and important trend-setting topics in developmental biology are presented. The topics range from classical developmental subjects such as tissue regeneration and morphogenetic cell migration to molecular stem cell biology, epigenetic plasticity, origins of multicellularity and development within changing environments. In the seminar <i>Milestones and Perspectives of Developmental Biology</i> , classic ground-breaking publications in the field of developmental biology are discussed from an unusual point of view. Intended learning outcomes					<i>Biology</i>). The storically im- gy are pre- prphogene- development y, classic point of view.
		ossess a knowledge of d are able to put this in				
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
V (1) + 9 Module		t in: English				
		essment (type, scope, on on whether module			tion offered — if not	every seme-
c) oral e d) oral e Studen	examin examin ts will l	nination (30 to 60 minu ation of one candidate ation in groups of up to be informed about the u ssessment: German an	each (30 to 60 minute 33 candidates (30 to 6 method, length and sco	s) or o minutes)		e.
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	<u>م</u>				
	<u></u>	-				
Poforro	d to in	LPOI (examination reg		legree programmes)		
Keleffe						
Module	e appea	irs in				
Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017) Master's with 1 major Biosciences (2017)						
master S WI	in i maju		-	er (120 ECTS) Biowissenschaf	-	page 149 / 265

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

exchange program Biosciences (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 150 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module					Abbreviation	
		lopmental Biology F1			07-MS2ZEF1-152-m	01
Module	e coord	inator		Module offered by		
holder logy	ofthe(Chair of Cell Biology and	Developmental Bio-	Faculty of Biology		
ECTS		od of grading	Only after succ. com	pl. of module(s)		
10	I	rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten	ts					
method pants a red tec devote Interac	ds with are enco hnolog d to sm tions w	Ill-time practical course p a focus on bio-imaging t ouraged to independentl- ical skills to analyse imp all projects, which shoul ith Master's students, do nvironment.	echniques. A broad v y design and perform ortant basic biologica d provide sustained i	ariety of model organ their own experimen al processes. Large p insights into current	nisms is covered an nts. Participants use arts of this practical research activities c	d the partici- their acqui- l course are of the Chair.
Intende	ed lear	ning outcomes				
logy an to perfo	id to in orm and	its are able to approach o dependently implement a d document cell and deve ific practice.	acquired methodolog	ical tools to answer	these questions. The	ey are able
Course	s (type	, number of weekly conta	ict hours, language —	if other than Germa	n)	
P (14) + Module		t in: German and/or Engl	ish			
		essment (type, scope, la on on whether module ca			tion offered — if not	every seme-
b) log (c) oral d) oral e) pres	15 to 30 examin examir entatio	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	ach (30 to 60 minute 3 candidates (30 to 6	s) or	or	
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)		
Module	e appea	ars in				
	-	ee (1 major) Biology (201	-			
	-	ee (1 major) FOKUS Life S	-			
	-	ee (1 major) Biosciences		ion DILIC Elita Notur	ork Rovaria (END) (a	016)
		ning degree Gymnasium rBiosciences (2017)	JMU Würzburg •	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	ım. reg. da-	016) page 151 / 265
					,	

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 152 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Cell an	d Deve	lopmental Biology F2		_	07-MS2ZEF2-152-m	01
Modul	o coord	inator		Module offered by		
			l Davida nan antal Dia			
holder logy	ofthe	Chair of Cell Biology and	d Developmental Bio-	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
15	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
text of luated	current on the impact	aspects of scientific pro research projects in th basis of the results obt on the research project	e field of cell and deve ained and modified wh	lopmental biology. T here necessary. The r	he techniques appli results of all experim	ed are eva- ients as well
Intend	ed lear	ning outcomes				
tal biol	logy an	nts are able to independ d to modify them accord d to perform, interpret a	ding to the outcome. The	hey are able to indep	endently approach	current scien-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	ın)	
P (29) Module		t in: German and/or En	glish			
		sessment (type, scope,		an German, examina	tion offered — if not	every seme-
		ion on whether module				every serie
b) log (c) oral d) oral e) pres	(15 to 3 examir examir entatio	mination (30 to 60 min o pages) or lation of one candidate nation in groups of up to n (20 to 45 minutes) lssessment: German an	each (30 to 60 minute 9 3 candidates (30 to 6	s) or	or	
Allocat	tion of	olaces				
Additio	nal inf	ormation				
Addition		ormation				
Worklo						
450 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Modul	e appea	ars in				
Master	's degr	ee (1 major) Biology (20	915)			
	Master's degree (1 major) Biosciences (2016)					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
	Master's degree (1 major) Biosciences (2017)					
	-	ee (1 major) Bioscience				,
		hing degree Gymnasiun				r
waster's w	ntri 1 majo	r Biosciences (2017)	-	er (120 ECTS) Biowissenschaft	-	page 153 / 265

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 154 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

	e title				Abbreviation
Cellula	r Tumo	r Biology F1			07-MS2ZTF1-152-m01
Module	e coord	inator		Module offered b	<u> </u>
		mme coordinator Biol	logie (Biology)	Faculty of Biology	
ECTS	r <u>í -</u>	od of grading		ompl. of module(s)	
10		rical grade			
Duratio		Module level	Other prorequisit	AC	
1 seme		graduate	Other prerequisit	es	
Conten		giauuale			
	-				
rent pro fields o employ	oblems of mole / a broa	in oncolytic virothera cular biology, infectio ad range of methods in	py. Participants will be n biology and cell biol	ecome familiar with a ogy as well as literat n biology and immun	ppics will focus in particular on cu a variety of methods within the ure search techniques. They will ology. Results will be documente
				CI •	
	-	ning outcomes			
			entific questions in mo good scientific practice		cell biology and to document thei
Course	s (type	, number of weekly co	ontact hours, language	e — if other than Gern	nan)
P (14) +	• • •				
		t in: German and/or E	nglish		
Method	d of ass				
ster, in a) writt	formati en exa	ion on whether modul mination (30 to 60 mi	e, language — if other t le can be chosen to ea nutes, including multi	rn a bonus)	
a) writt b) log (c) oral (d) oral e) prese	formati en exar (15 to 30 examin examir entatio	ion on whether modul mination (30 to 60 mi o pages) or ation of one candidat	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
a) writt b) log (c) oral (d) oral e) prese	formati en exan (15 to 30 examin examir entatio age of a	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up n (20 to 45 minutes) sssessment: German a	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	nation offered — if not every seme) or
ster, in a) writt b) log (c) oral (d) oral e) prese Langua	formati en exan (15 to 30 examin examir entatio age of a	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up n (20 to 45 minutes) sssessment: German a	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral d d) oral e) prese Langua Allocat	formati en exar (15 to 3) examin examir entatio age of a :ion of j	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up n (20 to 45 minutes) sssessment: German a	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral d d) oral e) preso Langua Allocat	formati en exar (15 to 3) examin examir entatio age of a :ion of j	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral (d) oral e) preso Langua Allocat Additio	formati en exact (15 to 30 examin examir entatio age of a ion of p onal inf	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo	formati en exact (15 to 30 examin examir entatio age of a ion of p onal inf	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h	formati en examin (15 to 30 examin examir entatio age of a conal inf	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h	formati en examin (15 to 30 examin examir entatio age of a conal inf	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	<u>rn a bonus)</u> ple choice questions tes) or	
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio 300 h Teachin 	formati en examin (15 to 30 examin examir entatio age of a ion of 1 onal inf pad	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up on (20 to 45 minutes) issessment: German a places ormation	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio 300 h Teachin 	formati en examin (15 to 30 examin examir entatio age of a ion of 1 onal inf pad	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up on (20 to 45 minutes) issessment: German a places ormation	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio 300 h Teachin Referre 	formati en examin (15 to 30 examin examir entatio age of a tion of p onal inf pad	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places ormation e LPO I (examination r	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) prese Langua Allocat Additio 300 h Teachin Referre Module	formati en examin (15 to 30 examin examin entatio age of a tion of p onal inf pad	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places ormation e LPO I (examination r	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English egulations for teaching	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio 300 h Teachin Referre Module	formati en examin (15 to 30 examin examin entatio age of a tion of p onal inf onal inf onal inf onal inf ed to in ed to in	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places ormation e LPO I (examination r ars in	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English egulations for teaching 2015)	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h Teachin Referre Master Master	formati en examin (15 to 30 examin examir entatio age of a ion of p onal inf onal inf onal inf onal inf ead ed to in e appea 's degr	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places ormation ee LPO I (examination r ars in ee (1 major) Biology (2	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English egulations for teaching 2015) ess (2016)	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Book Teachin Referre Master Master Master	formati en examin (15 to 30 examin examin examir entatio age of a tion of p onal inf onal inf onal inf onal inf e appea d's degr d's degr	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up on (20 to 45 minutes) issessment: German a places ormation e LPO I (examination r ars in ee (1 major) Biology (2 ee (1 major) Biology (2	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English egulations for teaching 2015) ees (2016) ees (2017)	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, ini a) writt b) log (c) oral o d) oral o e) preso Langua Allocat Modultio Referre Master Master Master Master	formati en examin (15 to 30 examin examin entatio age of a tion of p onal inf onal inf onal inf onal inf onal inf onal inf onal inf or of p onal inf or of p onal inf or of p onal inf or of p onal inf or of p or of of p onal inf or of of p or of p or of p or of of of p or of of p of of of of p of of of of of p of of o	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places ormation e LPO I (examination r ars in ee (1 major) Biology (2 ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English egulations for teaching (2015) ess (2016) ess (2017) ess (2018)	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or
ster, in a) writt b) log (c) oral d d) oral e) press Langua Allocat Module Moster Master Master Master Master Master	formati en examin (15 to 30 examin examin entatio age of a ion of p onal inf onal in	ion on whether modul mination (30 to 60 mi o pages) or nation of one candidat nation in groups of up in (20 to 45 minutes) issessment: German a places ormation ee LPOI (examination r ars in ee (1 major) Biology (2 ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to ea nutes, including multi e each (30 to 60 minu to 3 candidates (30 to and/or English egulations for teaching 2015) ees (2016) ees (2017) ees (2018) ees (2021)	rn a bonus) ple choice questions tes) or 6 6 minutes) or) or

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 155 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title					Abbreviation	
Cellula	Cellular Tumor Biology F2 07-MS2ZTF2-152-m01					
Module	e coord	inator		Module offered by	<u> </u>	
degree	progra	mme coordinator Biolc	gie (Biology)	Faculty of Biology		
ECTS	r i	od of grading		Only after succ. compl. of module(s)		
15	1	successfully completed				
Duratio		Module level				
1 seme		graduate	Other prerequisites	1		
Conten	its	5				
Students will be involved in current research projects in tumour biology. Aspects of the scientific question will be independently addressed by the students. They will apply experimental techniques in cell biology, immunology and/or molecular biology. The techniques applied will be evaluated on the basis of the results obtained and modified where necessary. Experimental results and progress in the research project will be documented in the form of a presentation, a publication or a term paper.						
Intend	ed lear	ning outcomes				
are abl to the p apply s	e to an orincipl specific	swer and discuss ques es of good scientific pr techniques required to	arry out scientific expe tions in the field of tun actice and to documer answer scientific que	nour biology/oncolog it, interpret and discu stions.	gy. Students are able uss their results. The	e to adhere
Course	s (type	, number of weekly cor	tact hours, language –	- if other than Germa	ın)	
P (29) - Module		t in: German and/or En	glish			
			language — if other th can be chosen to earn		tion offered — if not	every seme-
b) log (c) oral d) oral e) pres	(15 to 30 examin examir entatio	o pages) or ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 nd/or English	s) or	or	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
450 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biology (20	015)			
Master's degree (1 major) Biosciences (2016)						
Master's degree (1 major) Biosciences (2017)						
Master's degree (1 major) Biosciences (2018)						
Master	's degr	ee (1 major) Bioscience	s (2021)			
Master	's degr	ee (1 major) Bioscience	es (2023)			
Master	's degr	ee (1 major) Bioscience	es (2024)			
Master's w	ith 1 majo	Biosciences (2017)	-	• generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 156 / 265

Module title					Abbreviation		
Current Methods in Biology 07-MS31-152-m01							
Module	e coord	inator		Module offered by	<u>I</u>		
holder	holder of the Chair of Plant Physiology and Biophysics			Faculty of Biology			
ECTS		od of grading		Only after succ. compl. of module(s)			
10	nume	rical grade					
Duratio	on	Module level	Other prerequisites	;			
1 seme	ster	graduate					
Conten	Its						
thods i	This lecture series imparts the theoretical background of fundamental and up-to-date molecular biological me- thods in plant sciences. Special emphasis is placed on analytical tools, large-scale data analysis and their appli- cation.						
Intend	ed learı	ning outcomes					
and mo this fie approa	At the end of the lecture series, students will (I) be able to qualitatively evaluate results acquired with analytical and molecular biological methods and to integrate them into the context of the current scientific knowledge in this field (II) have gained an overview of the advantages/disadvantages of analytical and molecular biological approaches (III) be able to apply the knowledge they have acquired to design their own experimental strategies for addressing a specific research question.						
Course	s (type	, number of weekly cor	ntact hours, language –	- if other than Germa	ın)		
V (3)			-1:-1				
		t in: German and/or En			tion offered if we t		
			language — if other th can be chosen to earn		tion offered — if not	every seme-	
			utes, including multipl		or		
			e each (30 to 60 minute o 3 candidates (30 to 6	-			
		ssessment: German ar					
Allocat	tion of p	olaces					
Additio	onal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cycl	e					
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)			
Module	e appea	urs in					
		ee (1 major) Biology (20					
	-	ee (1 major) Bioscience					
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
		ee (1 major) Bioscience		NELWOIR DAVAIIA (EN			
	-	ee (1 major) Bioscience					
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)						
		-	Education PLUS, Elite	Network Bavaria (EN	B) (2020)		
Master	's degr	ee (1 major) Bioscience	es (2021)				
Master's w	ith 1 majoi	Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 157 / 265	

exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module	title			Abbreviation	
Current	Methods in Biology B			07-MS31B-152-m01	
Module	coordinator		Module offered by	<u> </u>	
holder	of the Chair of Plant Physiolo	gy and Biophysics	Faculty of Biology		
1	Method of grading	Only after succ. co	- · · · · · · · · · · · · · · · · · · ·		
7	(not) successfully complete	· _ · _ · · _ · _ · _ · _ ·			
, Duratio	· ·	Other prerequisites	5		
1 semes			•		
Content	1-				
This lec	ture series imparts the theor plant sciences. Special em				
Intende	d learning outcomes				
and mo this field approad	nd of the lecture series, stuc lecular biological methods a d (II) have gained an overvie ches (III) be able to apply the ressing a specific research q	nd to integrate them in w of the advantages/di knowledge they have	to the context of the sadvantages of analy	current scientific kno /tical and molecular	owledge in biological
Courses	s (type, number of weekly co	ntact hours, language -	 if other than Germa 	n)	
V (3) Module	taught in: English				
	of assessment (type, scope	language — if other th	an German, examina	tion offered — if not	every seme-
	formation on whether module				
c) oral e d) oral e	en examination (30 to 60 mir examination of one candidate examination in groups of up ge of assessment: German a	e each (30 to 60 minute o 3 candidates (30 to 6	es) or	or	
Allocati	on of places				
Additio	nal information				
Workloa	ad				
210 h					
Teachin	g cycle				
	• • •				
Referre	d to in LPO I (examination re	gulations for teaching	degree programmes)		
 Madula	appears in				
	appears in)			
	s degree (1 major) Biology (2 s dogree (1 major) Bioscienc	-			
	s degree (1 major) Bioscienc s teaching degree Gymnasiu		tion PLUS Flite Notw	ork Bavaria (FNR) (a	016)
	mentary course MINT Teache				010)
	s degree (1 major) Bioscienc			_, (2010)	
	s degree (1 major) Bioscienc				
Master': Suppler	s teaching degree Gymnasiu nentary course MINT Teache s degree (1 major) Bioscienc	m MINT Teacher Educa r Education PLUS, Elite			020)
Master's wit	th 1 major Biosciences (2017)		• generated 19-Apr-2025 • exiter (120 ECTS) Biowissenscha		page 159 / 265

exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module title					Abbreviation		
Molecular Plant Physiology F1 07-MS31MPPF1-152-m01							
Modul	e coord	inator		Module offered by	<u> </u>		
		Chair of Plant Physiolog	w and Biophysics	Faculty of Biology			
ECTS		od of grading	· · ·	Dnly after succ. compl. of module(s)			
10		rical grade					
Duratio		Module level	Other prerequisites				
1 seme		graduate					
Conter	nts	-	I				
		rovides an in-depth ins cudents will be integrat					
		ning outcomes	<u> </u>	<u></u>	<u></u>		
	_	nave knowledge about		rical strategies and n	nethods focusing on	nlant nhv-	
siology		are able to perform and					
Course	es (type	, number of weekly con	tact hours, language –	- if other than Germa	an)		
P (14) - Modul		t in: German and/or En	glish				
		essment (type, scope,		an German, examina	ation offered — if not	every seme-	
		on on whether module				,	
		nination (30 to 60 min	utes, including multipl	e choice questions)	or		
		pages) or		、 、			
		ation of one candidate					
		ation in groups of up to n (20 to 45 minutes)	o 3 candidates (30 to 6	o minutes) or			
		ssessment: German an	d/or English				
	tion of p		<u>,</u>				
Additio	onal inf	ormation					
Worklo							
300 h							
		•					
Teachi	ng cycl	e					
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)			
	e appea						
		ee (1 major) Biology (20					
Master's degree (1 major) Biosciences (2016)							
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Master's degree (1 major) Biosciences (2017)							
	Master's degree (1 major) Biosciences (2018)						
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021)							
	-	ee (1 major) Bioscience					
Imaster	Jucgh		ر <i>د د د</i> د م				
Master's w	vith 1 majoi	Biosciences (2017)		er (120 ECTS) Biowissenscha		page 161 / 265	



Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 162 / 265
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Module title					Abbreviation	
Molec	ular Pla	nt Physiology F2			07-MS31MPPF2-152	2-m01
Modul	e coord	inator		Module offered by	ļ	
holder	of the (Chair of Plant Physiolog	y and Biophysics	Faculty of Biology		
ECTS	1	od of grading	Only after succ. cor			
15		successfully completed		1		
Durati	on	Module level	Other prerequisites	i		
1 seme	ester	graduate				
Conte	nts					
		perform their research v rgely independent man				ar plant phy-
		ning outcomes			0	
Stude	nts are a	ble to work on a scient ent their results.	tific question, to desig	n an experimental se	tup as well as to int	erpret, docu-
		number of weekly con	tact hours, language -	- if other than Germa	in)	
P (29)	+ S (1)	t in: German and/or En				
		essment (type, scope, on on whether module			ition offered — if not	: every seme-
b) log c) oral d) oral e) pres	(15 to 30 examin examin examin sentatio	nination (30 to 60 min p pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes) ssessment: German an	each (30 to 60 minute o 3 candidates (30 to 6	s) or	or	
	tion of p					
Additi	onal inf	ormation				
Workle	oad					
	ing cycl	2				
		-				
Referr	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Modul	e appea	rs in				
Maste Maste Supple Maste Maste Supple Maste Maste	r's degro r's teach ementar r's degro r's degro r's teach ementar r's degro r's degro	ee (1 major) Biology (20 ee (1 major) Bioscience ning degree Gymnasiur y course MINT Teacher ee (1 major) Bioscience ee (1 major) Bioscience y course MINT Teacher ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience	s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite s (2021) s (2023)	Network Bavaria (EN ion PLUS, Elite Netw	B) (2016) ork Bavaria (ENB) (2	
Master's v	vith 1 majoı	Biosciences (2017)	-	• generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 163 / 265



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 164 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

	e title				Abbreviation
Plant I	mmuno	biology and Pharmace	utical Biology		07-MS31PIP-152-m01
Module coordinator				Module offered by	<u> </u>
holder of the Chair of Ecophysiology and Vegetation Ecolo			and Vegetation Ecolo-	Faculty of Biology	
gy				,	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
10	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	graduate			
Conter	nts				
tegies discus sion ar milarit actions of strat tes: Se and ar as spe import ve bee drugs v	of the p sed. The nd activ- ies betwises and m tegies i econdar e often ecific de cant cla- en devel with im	bathogens - bacteria, fu e molecular mechanism vation of local and syste ween plant and human tolecular mechanisms of n plant protection. Evol y metabolites are part of essential for survival. T fence strategies will be sses of plant bioactive of loped from plant second proved pharmaceutical	ngi and viruses - as we ns of pathogen recogni mic defence response immune systems will b letermining susceptibi ution, function and pha of effective plant defen he evolution of second explained. Pharmacolo compounds will be pre- dary metabolites that h properties. Examples of	Il as defence mecha tion, signal transduc s are in the focus of be pointed out. Unde lity and defence is fu armaceutical relevar ce strategies agains lary metabolism will ogical mechanisms of sented. A high propo- nave been used as le of therapies with ver	omplex systems. Different stra- nisms of the host plants will be ction, regulation of gene expres- this lecture. Differences and si- rstanding plant-pathogen-inter- undamental for the development nee of plant secondary metaboli- t microorganisms and herbivores be discussed and general as we of action and molecular targets of portion of currently used drugs ha ad structures to generate potent y potent plant pharmaceuticals
discus Intend	sed. Ied lear	ning outcomes			apy (traditional medicine) will be ment on a molecular level and t
discus	s the to	ppic in the context of the , number of weekly con	e scientific state of the	art.	
V (2) +		, number of weekly coll	iaci nours, ianguage –		
		it in: German and/or En	glish		
Metho	d of as	· · · ·	language — if other tha		tion offered — if not every seme
a) writt c) oral d) oral	ten exa examir examir	mination (30 to 60 minu nation of one candidate nation in groups of up to assessment: German an	utes, including multiple each (30 to 60 minute 9 3 candidates (30 to 6	e choice questions) s) or	or
	tion of				
Allocat		places			
-		places			
Allocat		ormation			
Allocat Additio	onal inf				
Allocat Additio	onal inf				
Allocat Additio	onal inf				
Allocat Additio Worklo 300 h	onal inf	ormation			
Allocat Additio Worklo 300 h	onal inf oad	ormation			
Allocat Additio Worklo 300 h Teachi	onal inf oad ing cycl	ormation	gulations for teaching-o	degree programmes)	
Allocat Additio Worklo 300 h Teachi	onal inf oad ing cycl	ormation e	gulations for teaching-o	degree programmes)	



Module appears in

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

Master's degree (1 major) Biosciences (2016)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

exchange program Biosciences (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 166 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	1

Module					Abbreviation
Plant I	mmuno	biology and Pharmaceut	ical Biology B		07-MS31PIPB-152-m01
Module	e coord	inator		Module offered by	
holder	ofthe	Chair of Pharmaceutical E	Biology	Faculty of Biology	
ECTS	1	od of grading	Only after succ. com		
5	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
tegies of discuss sion ar milariti actions of strat tes: Se and are as spec import ve beet drugs v	of the p sed. The nd active set of the set of the condar e of ten cific de ant clas n devel with im	bathogens - bacteria, fung e molecular mechanisms vation of local and system ween plant and human in holecular mechanisms de n plant protection. Evolut y metabolites are part of essential for survival. The fence strategies will be e sses of plant bioactive co oped from plant seconda proved pharmaceutical p	gi and viruses - as we of pathogen recognit ic defence responses mune systems will b termining susceptibil ion, function and pha effective plant defend e evolution of second xplained. Pharmacolo mpounds will be pres ry metabolites that h roperties. Examples c	Il as defence mecha tion, signal transduc s are in the focus of e pointed out. Unde ity and defence is fu armaceutical relevar ce strategies agains ary metabolism will ogical mechanisms of sented. A high propo ave been used as le of therapies with ver	complex systems. Different stra- nisms of the host plants will be ction, regulation of gene expres- this lecture. Differences and si- erstanding plant-pathogen-inter- undamental for the development nee of plant secondary metaboli- t microorganisms and herbivores be discussed and general as well of action and molecular targets of portion of currently used drugs ha- ead structures to generate potent y potent plant pharmaceuticals apy (traditional medicine) will be
	ed lear	ning outcomes	teraction between pla	ants and the environ	nment on a molecular level and to
		ppic in the context of the s			
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	an)
V (2)					
	. <u> </u>	t in: German and/or Engl			
		sessment (type, scope, la ion on whether module c			ition offered — if not every seme-
c) oral d) oral	examir examir	mination (30 to 60 minut nation of one candidate e nation in groups of up to issessment: German and	ach (30 to 60 minutes 3 candidates (30 to 6	s) or	or
Allocat	ion of	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-c	legree programmes)	

Master's with 1 major Biosciences (2017)



Module appears in

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

Master's degree (1 major) Biosciences (2016)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

exchange program Biosciences (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 168 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation			
Plant Ecology 07-MS31POEK-152-m01							
Module		inator		Module offered by	, , ,		
holder of the Chair of Ecophysiology and Vegetation Ecolo							
notaer gy	orthe	chair of Ecophysiology a	and vegetation Ecolo-	Faculty of Biology			
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)			
10	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
The lecture will deal with the ecological and environmental constraints under which plants grow and develop (biogeography, biodiversity) and with the interactions of plants with abiotic and biotic environmental factors (e. g. plant-insect, plant-fungus interactions). The evolutionary adaptations on the physiological and organismic level will be emphasised in particular (stress and defence reactions, carnivory, plant protection). Corresponding experimental approaches will be illustrated. Based on selected examples from current research, the seminar will address the topics covered in the lecture in more detail. It will be complemented by topic-related guided tours in the Botanical Garden of the University of Würzburg.						ors (e. nic le- ling ar will	
Intende	ed lear	ning outcomes					
		re able to identify and i of the current state of k			terrelations and to discuss	them	
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)		
V (2) +							
		t in: German and/or En					
		sessment (type, scope, ion on whether module			tion offered — if not every s	seme-	
c) oral d) oral	examir examir	mination (30 to 60 minu nation of one candidate nation in groups of up to ssessment: German an	each (30 to 60 minute 3 candidates (30 to 6	s) or	Dr		
Allocat	ion of	olaces					
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cvcl	e					
Poforro	d to in	LPOI (examination reg	ulations for toaching	dograa programmas)			
Kelelle				legiee programmes)			
Module appears in							
Master's degree (1 major) Biology (2015) Master's degree (1 major) FOKUS Life Sciences (2015)							
Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) Biosciences (2016)							
Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Master's degree (1 major) Biosciences (2017)							
	Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018)						
	-			ion PLUS, Elite Netwo	ork Bavaria (ENB) (2020)		
		r Biosciences (2017)	JMU Würzburg •	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	am. reg. da- page 16	69 / 265	

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 170 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	Module title Abbreviation					
Plant E	Plant Ecology B 07-MS31POEKB-152-mo1				2-m01	
Module coordinator N			Module offered by			
holder gy	ofthe	Chair of Ecophysiology	and Vegetation Ecolo-	Faculty of Biology		
ECTS						
5	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
(biogeo g. plant vel will	The lecture will deal with the ecological and environmental constraints under which plants grow and develop (biogeography, biodiversity) and with the interactions of plants with abiotic and biotic environmental factors (e. g. plant-insect, plant-fungus interactions). The evolutionary adaptations on the physiological and organismic level will be emphasised in particular (stress and defence reactions, carnivory, plant protection). Corresponding experimental approaches will be illustrated.					al factors (e. ganismic le-
Intende	ed lear	ning outcomes				
		re able to identify and i of the current state of I			terrelations and to o	liscuss them
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	ın)	
V (2) Module	e taugh	t in: English				
		sessment (type, scope, ion on whether module			tion offered — if not	every seme-
c) oral (d) oral	 a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English 					
Allocat	Allocation of places					
Additional information						
Workload						
150 h						
Teachi	ng cycl	e				
	-					
Referre	ed to in	LPOI (examination reg	gulations for teaching-o	degree programmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biology (20	015)			
Master	's degr	ee (1 major) Bioscience	s (2016)			
		hing degree Gymnasiun				016)
		ry course MINT Teacher ee (1 major) Bioscience		Network Davaria (EN	D) (2010)	
	-	ee (1 major) Bioscience ee (1 major) Bioscience				
	-	hing degree Gymnasiun		ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)
		ry course MINT Teacher				
Master	's degr	ee (1 major) Bioscience	s (2021)			
Master's wi	ith 1 majo	r Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschal	-	page 171 / 265



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

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 172 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title		Abbreviation				
Biophy	Biophysics and Biochemistry 07-MS3BB-152-m01				L	
Module coordinator			Module offered by			
holder	of the (Chair of Plant Physiolog	ogy and Biophysics Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Durati	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
and bi of part	The module imparts theoretical and methodological knowledge of plant membrane transport, structural biology and biochemistry which is illustrated with specific examples from current research. Depending on the number of participants and their interests, practical demonstrations of methods that are currently used give students an opportunity to experience the practical aspects of biophysical and biochemical research.					ne number
Intend	ed learı	ning outcomes				
sics, st	tructura		ealing with soluble prot istry. They are able to in			
Course	es (type	, number of weekly cor	ntact hours, language –	- if other than Germa	n)	
V (2) + Modul		t in: English				
			language — if other th		tion offered — if not	every seme-
-			can be chosen to earn			
			utes, including multipl each (30 to 60 minute		or	
			o 3 candidates (30 to 6	-		
Studer	nts will l	be informed about the	method, length and sc		nt prior to the cours	e.
Language of assessment: German and/or English						
Allocation of places						
Additional information						
Workload						
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module appears in						
	Master's degree (1 major) Biology (2015) Master's degree (1 major) FOKUS Life Sciences (2015)					
	Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) Biosciences (2016)					
	-		n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)
Supple	ementar	y course MINT Teacher	Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience)
			n MINT Teacher Educat ⁻ Education PLUS, Elite			J2OJ
						,
waster's w	nun 1 majoi	Biosciences (2017)	-	er (120 ECTS) Biowissenschaft	-	page 173 / 265

Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Module title		Abbreviation				
Biophy	Biophysics and Biochemistry B 07-MS3BBB-152-m01				01	
Module coordinator Module offe		Module offered by	<u> </u>			
holder	of the (Chair of Plant Physiolog	y and Biophysics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed	ully completed			
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
		nparts theoretical and i				
		stry which is illustrated				
		s and their interests, pr experience the practic				Students an
		ning outcomes				
		able to use methods de	aling with soluble prot	eins or membrane n	roteins in the fields	of bionhy-
		I biology and biochemi				
contex	t of cur	rent knowledge.				
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	ın)	
V (2)						
		t in: English				
		sessment (type, scope, ion on whether module			ition offered — if not	every seme-
		mination (30 to 60 min			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		ation of one candidate			01	
		nation in groups of up to		-		
		be informed about the	-	ope of the assessme	nt prior to the cours	e.
Language of assessment: German and/or English						
Allocation of places						
Additio	Additional information					
Worklo	Workload					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Modul	e appea	ars in				
Master	Master's degree (1 major) Biology (2015)					
	-	ee (1 major) FOKUS Life				
	-	ee (1 major) Bioscience				
		hing degree Gymnasiur				016)
		ry course MINT Teacher ee (1 major) Bioscience		NELWOIR DAVAIIA (EN	(2010)	
	-	ee (1 major) Bioscience				
	-	hing degree Gymnasiur		ion PLUS, Elite Netw	ork Bavaria (ENB) (2	020)
		ry course MINT Teacher				
Mactoric	ith a main	r Biosciences (2017)	IMILIA/Deals	• generated 19-Apr-2025 • exa	am reg da	nage 175 / 265
master s w	nur i majo	Diosciences (201/)		er (120 ECTS) Biowissenscha		page 175 / 265

Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Pionhy	e title			Abbreviation	
ыорну	vsics of Plant Membrane Prot	eins F1		07-MS3BPF1-152-m	01
Module coordinator			Module offered by		
	of the Chair of Plant Physiolo	my and Biophysics	Faculty of Biology		
ECTS	Method of grading	Only after succ. cor			
10	numerical grade				
Duratio			-		
1 seme		Other prerequisites			
Conten					
The mo nal cha rent top	odule provides an in-depth in aracterisation of plant memb pics in molecular plant mem	rane proteins. The stude			
Intend	ed learning outcomes				
protein	idents have knowledge of ge is, they are able to independ	ently work on related sc	ientific issues and to	document the resul	
Course	s (type, number of weekly co	ntact hours, language -	– if other than Germa	n)	
P (14) + Module	+ S (1) e taught in: German and/or E	nglish			
	d of assessment (type, scope formation on whether modul			tion offered — if not	every seme-
e) pres Langua	examination in groups of up entation (20 to 45 minutes) age of assessment: German a tion of places				
 A .] .]*4* -					
Additio	onal information				
 Worklo	ad				
WUIKIU					
300 h	ng cvcle				
300 h	ng cycle				
300 h Teachi i 		agulations for togehing	degree programmes)		
300 h Teachin Referre	ng cycle ed to in LPO I (examination r	egulations for teaching-	degree programmes)		
300 h Teachin Referre	ed to in LPO I (examination r	egulations for teaching-	degree programmes)		
300 h Teachin Referre Module	ed to in LPO I (examination r		degree programmes)		
300 h Teachin Referre Module Master	ed to in LPO I (examination r e appears in "s degree (1 major) Biology (2	2015)	degree programmes)		
300 h Teachin Referre Module Master Master	ed to in LPO I (examination r e appears in d's degree (1 major) Biology (2 d's degree (1 major) FOKUS Lit	2015) fe Sciences (2015)	degree programmes)		
300 h Teachin Referre Module Master Master Master	ed to in LPO I (examination r e appears in "s degree (1 major) Biology (2 "s degree (1 major) FOKUS Lin "s degree (1 major) Bioscienc	2015) fe Sciences (2015) ces (2016)			
300 h Teachin Referre Module Master Master Master Master	ed to in LPO I (examination r e appears in "'s degree (1 major) Biology (2 "'s degree (1 major) FOKUS Lif "'s degree (1 major) Bioscienc	2015) fe Sciences (2015) :es (2016) ım MINT Teacher Educat	tion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
300 h Teachin Referre Module Master Master Master Supple	ed to in LPO I (examination r e appears in d's degree (1 major) Biology (2 d's degree (1 major) FOKUS Lin d's degree (1 major) Bioscience d's teaching degree Gymnasiu ementary course MINT Teache	2015) fe Sciences (2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite	tion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
300 h Teachin Referre Module Master Master Master Supple Master	ed to in LPO I (examination r e appears in d's degree (1 major) Biology (2 d's degree (1 major) FOKUS Lin d's degree (1 major) Bioscience d's teaching degree Gymnasiu ementary course MINT Teache d's degree (1 major) Bioscience	2015) fe Sciences (2015) ses (2016) am MINT Teacher Educat er Education PLUS, Elite ses (2017)	tion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
300 h Teachin Referre Module Master Master Master Supple Master Master Master	ed to in LPO I (examination r e appears in d's degree (1 major) Biology (2 d's degree (1 major) FOKUS Lif d's degree (1 major) Bioscience d's teaching degree Gymnasiu ementary course MINT Teache d's degree (1 major) Bioscience d's degree (1 major) Bioscience	2015) fe Sciences (2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite ces (2017) ces (2018)	tion PLUS, Elite Netw Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016)	
300 h Teachin Referre Module Master Master Master Master Master Master Supple Master Supple	ed to in LPO I (examination r e appears in d's degree (1 major) Biology (2 d's degree (1 major) FOKUS Lin d's degree (1 major) Bioscience d's teaching degree Gymnasiu ementary course MINT Teache d's degree (1 major) Bioscience	2015) fe Sciences (2015) tes (2016) tm MINT Teacher Educat er Education PLUS, Elite tes (2017) tes (2018) tm MINT Teacher Educat er Education PLUS, Elite	tion PLUS, Elite Netw Network Bavaria (EN tion PLUS, Elite Netw	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	

Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 178 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Biophy	e title			Abbreviation	
	sics of Plant Membrane Prote	ins F2		07-MS3BPF2-152-m	101
Module coordinator		Module offered by			
	of the Chair of Plant Physiolog	· · · ·	Faculty of Biology		
ECTS	Method of grading	Only after succ. cor	mpl. of module(s)		
15	(not) successfully completed				
Duratio		Other prerequisites	5		
1 seme	ester graduate				
Conten	its				
	udents perform their research v nembrane proteins in a largely				
Intend	ed learning outcomes				
are abl	udents are able to address scie le to independently design the ne results.				
Course	es (type, number of weekly con	tact hours, language -	– if other than Germa	in)	
P (29) -	+ S (1)				
Module	e taught in: German and/or En	glish			
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
Langua	sentation (20 to 45 minutes) age of assessment: German an t ion of places	d/or English			
Additio	onal information				
Worklo	bad				
450 h					
	ng cycle				
Teachi					
Teachi					
		ulations for teaching.	degree programmes)		
	ed to in LPO I (examination reg	gulations for teaching-	degree programmes)		
 Referre	ed to in LPO I (examination reg	gulations for teaching-	degree programmes)		
 Referre Module	ed to in LPO I (examination reg		degree programmes)		
 Referre Module Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20	115)	degree programmes)		
 Referre Module Master Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience	115) s (2016)			016)
 Referre Module Master Master Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiun	n15) s (2016) n MINT Teacher Educat	tion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Referre Module Master Master Supple	ed to in LPO I (examination reg e appears in f's degree (1 major) Biology (20 r's degree (1 major) Bioscience f's teaching degree Gymnasiun ementary course MINT Teacher	915) s (2016) n MINT Teacher Educat Education PLUS, Elite	tion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Referre Module Master Master Supple Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiun	n15) s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017)	tion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Referre Master Master Master Supple Master Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiun ementary course MINT Teacher r's degree (1 major) Bioscience	n15) s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017) s (2018)	tion PLUS, Elite Netw Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016)	
 Referre Module Master Master Master Master Master Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiun ementary course MINT Teacher r's degree (1 major) Bioscience r's degree (1 major) Bioscience	915) s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017) s (2018) n MINT Teacher Educat	tion PLUS, Elite Netw Network Bavaria (EN tion PLUS, Elite Netw	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	
 Referre Module Master Master Master Master Master Supple Master Supple Master	ed to in LPO I (examination reg e appears in r's degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiun ementary course MINT Teacher r's degree (1 major) Bioscience r's teaching degree Gymnasiun	115) s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite s (2021)	tion PLUS, Elite Netw Network Bavaria (EN tion PLUS, Elite Netw	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2	
 Referre Master Master Master Supple Master Master Supple Master Master Master	ed to in LPO I (examination reg e appears in "'s degree (1 major) Biology (20 r's degree (1 major) Bioscience r's teaching degree Gymnasiun ementary course MINT Teacher r's degree (1 major) Bioscience r's teaching degree Gymnasiun ementary course MINT Teacher r's degree (1 major) Bioscience	n15) s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite s (2021) s (2023)	tion PLUS, Elite Netw Network Bavaria (EN tion PLUS, Elite Netw	ork Bavaria (ENB) (2 B) (2016) ork Bavaria (ENB) (2 B) (2020)	



Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 180 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module					Abbreviation	
Bioche	mistry	and Structural Biolo	ogy F1		07-MS3BSBF1-152-m01	
Module	e coord	inator		Module offered by		
			logy and Biophysics	Faculty of Biology		
ECTS		od of grading	Only after succ. co			
10		rical grade				
Duratio	on	Module level	Other prerequisite	s		
1 seme	ster	graduate				
Conten	Its					
					biochemistry and structural bio- biochemistry and structural biolo	
Intend	ed lear	ning outcomes				
logy wi indepe	th a foo ndently	cus on membrane pr / and document the	roteins. They are able to presults obtained.	perform and organise	biochemistry and structural bio- their scientific laboratory work	
		, number of weekly (contact hours, language	— If other than Germa	an)	
P (14) + Module		t in: German and/or	Fnglish			
		· ·		han Corman, ovamina	ation offered — if not every seme-	
			ule can be chosen to ear		ation offered — If not every serile-	
e) pres	entatio ige of a	n (20 to 45 minutes) ssessment: German		60 minutes) or		
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination	regulations for teaching	-degree programmes))	
Module	e appea	urs in				
Master	's degr	ee (1 major) Biology ee (1 major) FOKUS I	Life Sciences (2015)			
Master Supple Master Master Master	's teacl mentai 's degr 's degr 's teacl	y course MINT Teac ee (1 major) Bioscier ee (1 major) Bioscier ning degree Gymnas	ium MINT Teacher Educa her Education PLUS, Elite nces (2017) nces (2018)	e Network Bavaria (EN ition PLUS, Elite Netw	ork Bavaria (ENB) (2020)	
		r Biosciences (2017)		• generated 19-Apr-2025 • ex		

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Biosciences (2017) Master's degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Itaster's with 1 major Biosciences (2017) Mutwizzburg • generated 19-Apr-2025 • exam. reg. da-	Module	e title			Abbreviation	
Index of the Chair of Plant Physiology and Biophysics Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 15 (not) successfully completed Duration Module level Other prerequisites 15 semester graduate Contents The students perform their research work within the context of a current research project on biochemistry and structural biology in a largely independent manner under supervision of a principal investigator. Intended learning outcomes The students are able to independently perform and organise their scientific laboratory work in the fields of biochemistry and structural biology and to document the results obtained. They are able to design a research project and are prepared for working on a scientific question for their thesis. Courses (type, number of weekly contact hours, language — if other than German) P(29) + 5 (1) Module taught in: German and/or English Method of assessment (type, scope, language = if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) written examination (so to 6 minutes, including multiple choice questions) or b) log (sto so pages) or c) oral examination (so to 4 sp minutes) b) log (sto to 3 pages) or c) Additional information <td< th=""><th>Bioche</th><th>mistry and Structural Biology</th><th>7 F2</th><th></th><th>07-MS3BSBF2-152-</th><th>m01</th></td<>	Bioche	mistry and Structural Biology	7 F2		07-MS3BSBF2-152-	m01
Index of the Chair of Plant Physiology and Biophysics Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 15 (not) successfully completed Duration Module level Other prerequisites 15 semester graduate Contents The students perform their research work within the context of a current research project on biochemistry and structural biology in a largely independent manner under supervision of a principal investigator. Intended learning outcomes The students are able to independently perform and organise their scientific laboratory work in the fields of biochemistry and structural biology and to document the results obtained. They are able to design a research project and are prepared for working on a scientific question for their thesis. Courses (type, number of weekly contact hours, language — if other than German) P(29) + 5 (1) Module taught in: German and/or English Method of assessment (type, scope, language = if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) written examination (so to 6 minutes, including multiple choice questions) or b) log (sto so pages) or c) oral examination (so to 4 sp minutes) b) log (sto to 3 pages) or c) Additional information <td< th=""><th>Module</th><th>coordinator</th><th></th><th colspan="2">Madula offered by</th><th></th></td<>	Module	coordinator		Madula offered by		
ECTS Method of grading Only after succ. compl. of module(s) 15 (not) successfully completed 0 Duration Module level Other prerequisites 1 semester graduate Contents The students perform their research work within the context of a current research project on biochemistry and structural biology in a largely independent manner under supervision of a principal investigator. Interstudents are able to independently perform and organise their scientific laboratory work in the fields of biochemistry and structural biology and to document the results obtained. They are able to design a research project and are prepared for working on a scientific question for their thesis. Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every seme ster, information on whether module can be chosen to earn a bonus) a) written examination (so to 6 minutes, including multiple choice questions) or b) log (so to 30 pages) or c) oral examination of one candidate each (so to 6 o minutes) or c) oral examination (so to 45 minutes) anguage of assessment: German and/or English Additional information Additional information Additional information Additional information Additiona figure German and/or English			my and Pianhysics	•		
15 (not) successfully completed				· · · · · · · · · · · · · · · · · · ·		
Duration Module level Other prerequisites 1 semester graduate				npl. of module(s)		
i semester graduate Contents The students perform their research work within the context of a current research project on biochemistry and structural biology in a largely independent manner under supervision of a principal investigator. Intended learning outcomes The students are able to independently perform and organise their scientific laboratory work in the fields of biochemistry and structural biology and to document the results obtained. They are able to design a research project and are prepared for working on a scientific question for their thesis. Courses (type, number of weekly contact hours, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to eam a bonus) a) written examination of go to 6 on binutes, including multiple choice questions) or b) log (5 to 30 pages) or c) oral examination of one candidate each (30 to 6 on minutes) or e) presentation (20 to 45 minutes) d) oral examination in groups of up to 3 candidates (30 to 6 on minutes) or e) presentation (20 to 45 minutes) Additional information Additional information Morkload	-					
Contents The students perform their research work within the context of a current research project on biochemistry and structural biology in a largely independent manner under supervision of a principal investigator. Intended learning outcomes The students are able to independently perform and organise their scientific laboratory work in the fields of biochemistry and structural biology and to document the results obtained. They are able to design a research project and are prepared for working on a scientific question for their thesis. Courses (type, number of weekly contact hours, language — if other than German) P (29) + 5 (1) Module taught in: Germa and/or English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 6 or minutes, including multiple choice questions) or b) log (ts to go ages) or c) oral examination of one candidate each (30 to 6 or minutes) or e) presentation (20 to 4, minutes) Language of assessment: German and/or English Allocation of places			Other prerequisites	i		
The students perform their research work within the context of a current research project on biochemistry and structural biology in a largely independent manner under supervision of a principal investigator. Intended learning outcomes The students are able to independently perform and organise their scientific laboratory work in the fields of biochemistry and structural biology and to document the results obtained. They are able to design a research project and are prepared for working on a scientific question for their thesis. Courses (type, number of weekly contact hours, language — if other than German) P (29) + 5 (1) Module taught in: German and/or English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) written examination (so to 6 om inutes, including multiple choice questions) or b) log (so to 30 pages) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) or c) oral examination fore candidate each (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English Allocation of places	1 seme	ster graduate				
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Master's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 183 / 265						
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ta record Master (120 ECTS) Biowissenschaften - 2017	/laster's wi	th 1 major Biosciences (2017)			-	page 183 / 265



Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 184 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Compu	tationa	l Biology F1			07-MS3COBF1-152-r	n01
Man Just				Mandala affarrad bar	-,	
	e coord			Module offered by		
	-	Chair of Bioinformatics	1	Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10	· · · · · ·	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
		ht into methods in bioin				
		e-, domain analysis and				
		opological and structure				
a term	•	, protein structure analy	sis. Results are docur	nented in the form of	a presentation, a pu	idlication or
	· · ·	ning outcomes				
	-	e gained knowledge on e		nd mothods used in	the field of biginform	natice Thou
		sign experiments, collec	• •			
	fic prac			iem statistically, au		5 01 5000
	· · ·	, number of weekly cont	act hours, language –	- if other than Germa	n)	
P (14) +		· ·				
	• • •	t in: German and/or Eng	lish			
Metho	d of ass	essment (type, scope, l	anguage — if other th	an German, examina	tion offered — if not	every seme-
ster, in	formati	on on whether module	can be chosen to earn	a bonus)		
a) writt	en exai	nination (30 to 60 minu	tes, including multipl	e choice questions) (or	
		o pages) or				
		ation of one candidate				
		ation in groups of up to n (20 to 45 minutes)	3 candidates (30 to 6	o minutes) or		
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Referre	ed to in	LPOI (examination reg	ulations for teaching-	degree programmes)		
Module	e appea	rs in				
	Master's degree (1 major) Biology (2015)					
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) Biosciences (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
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		ning degree Gymnasium Biosciences (2017)		on PLUS, Elite Netwo generated 19-Apr-2025 • exa		020) page 185 / 265
wiaster SW	nin i majoi			er (120 ECTS) Biowissenschaf		page 105 / 205

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 186 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Compu	Itationa	ll Biology F2			07-MS3COBF2-152-m01	
Modul	e coord	inator		Module offered by		
	1	Chair of Bioinformatics	0.1	Faculty of Biology		
ECTS	1	od of grading	Only after succ. con	ipi. of module(s)		
15		successfully completed				
Duration 1 seme		Module level graduate	Other prerequisites			
Conter		graduate]			
Advanced insight into methods in bioinformatics; depending on the topic selected, fields covered include: geno- mics (sequence-, domain analysis and annotation), omics data analysis (NGS, transcriptomics, metabolomics, proteomics), topological and structural analysis of biological interactions including statistical methods, phyloge- netic analysis, protein structure analysis. The techniques applied are evaluated on the basis of the results obtai- ned and are modified where necessary. Results are documented in the form of a presentation, a publication or a term paper.						
Intend	ed lear	ning outcomes				
search and in	(for the terpret f	eir Master's thesis). Abili findings, adhering to the	ty to independently a principles of good sc	ddress topics in bioi ientific practice.	ccessfully conduct scientific re- nformatics as well as document	
		, number of weekly conta	act hours, language –	- if other than Germa	n)	
P (29) Modul		t in: German and/or Eng	lish			
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ster, in	formati	on on whether module c	an be chosen to earn	a bonus)		
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Master's degree (1 major) Biosciences (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Master's degree (1 major) Biosciences (2017)						
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Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 188 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation	
		Chemical Plant Ecolo	gy F1		07-MS3MCPEF1-152	-m01
AA						
	e coordi			Module offered by		
	1	hair of Plant Physiolo				
ECTS		d of grading	Only after succ. co	npl. of module(s)		
10	<u> </u>	ical grade				
Duratio		Module level	Other prerequisites	5		
1 seme		graduate				
Conten	nts					
molecu of the i plant-in the res will be	ular and interacti nsect, a sults will involve	chemical plant ecologions between plants a nd plant-fungus interable be documented and	ed scientist, students w gy. Particular emphasis nd abiotic and biotic en actions). Working conce presented in the form c and will deepen their k nical analysis.	will be placed on the nvironmental factors epts and complex exp of presentations, pub	e molecular and che (e.g. cuticular barric periments will be des lications or logs. The	mical bases er properties, signed, and e participants
Intend	ed learr	ing outcomes				
and to	apply a	ppropriate methods. 1	scientific experiments They are also able to ac ing to the rules of good	Idress and document		
Course	es (type,	number of weekly co	ntact hours, language -	– if other than Germa	ın)	
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Module	e taught	in: German and/or Er	nglish			
ster, in	ıformati	on on whether module	, language — if other th e can be chosen to earr	n a bonus)		every seme-
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Additio	onal info	ormation				
Worklo	bad					
300 h						
Teachi	ng cycle	9				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Modul	e appea	rs in				
	-	ee (1 major) Biology (2	-			
	-	ee (1 major) FOKUS Life				
	-	ee (1 major) Bioscienco			ark Davaria (END) (
			m MINT Teacher Educat			016)
		ee (1 major) Bioscienco	r Education PLUS, Elite	Network Davalla (EN	(2010)	
	-	Biosciences (2017)		• generated 19-Apr-2025 • exa	am. reg. da-	page 189 / 265

Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)

Module title	Abbreviation				
Molecular and Chemical Plant Ecolog	y F2		07-MS3MCPEF2-152	2-m01	
Module coordinator		Module offered by			
holder of the Chair of Plant Physiology	and Biophysics	Faculty of Biology			
ECTS Method of grading	Only after succ. con	npl. of module(s)			
15 (not) successfully completed					
Duration Module level	Other prerequisites	i i i i i i i i i i i i i i i i i i i			
1 semester graduate					
Contents					
Students will work on projects taken from ongoing research in the supervisors' labs from the field of molecular and chemical plant ecology (e. g. cuticular barrier properties, plant-insect, and plant-fungus interactions). They will do this work to a large extent on their own responsibility by performing advanced experiments, their docu- mentation and evaluation. Based on the results obtained, the analytical, molecular biological and/or microbiolo- gical methods applied (e. g. PCR, cloning strategies, chromatography, mass spectrometry) will be critically asses- sed and, where necessary, modified. The progress of the experiments and their contribution to more general pro- jects will be documented and presented in the form of presentations, publications or logs.					
Intended learning outcomes					
The participants are able to independ plant ecology and to modify them acco and interpret questions in the field of practice. Students are also able to ap	ording to the outcome molecular/chemical p	. They are able to inc plant ecology, adheri	dependently address ng to the rules of go	s, document od scientific	
Courses (type, number of weekly cont	act hours, language –	- if other than Germa	n)		
P (29) + S (1) Module taught in: German and/or Eng	lish				
Method of assessment (type, scope, l		an German, examina	tion offered — if not	every seme-	
ster, information on whether module of				,	
 a) written examination (30 to 60 minu b) log (15 to 30 pages) or c) oral examination of one candidate e d) oral examination in groups of up to e) presentation (20 to 45 minutes) Language of assessment: German and 	each (30 to 60 minute 3 candidates (30 to 6	s) or	or		
Allocation of places					
Additional information					
Workload					
450 h					
Teaching cycle					
Peferred to in I PO I (examination reg		degree programmes)			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Biology (20:	15)				
Master's degree (1 major) Biosciences	-				
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Master's degree (1 major) Biosciences					
Master's with 1 major Biosciences (2017)	-	e generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	-	page 191 / 265	

Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)

Module title			Abbreviation			
Pharm	aceutical	Biology and Metabo	lomics F1		07-MS3PBMF1-152-	m01
Modul	e coordina	ator		Module offered by		
	of the Ch	air of Pharmaceutica		Faculty of Biology		
ECTS		of grading	Only after succ. con	npl. of module(s)		
10	numeric	-				
Durati	î	Iodule level	Other prerequisites			
1 seme		raduate				
Conter						
All organisms are able to reprogram their metabolism in response to various endogenous or exogenous pertur- bations. Reprogramming of metabolism is often correlated to phenotypic changes e.g. in disease development, physiology or behaviour. At the Chair of Pharmaceutical Biology, we apply metabolomics for gene function- or stress response analysis. Students can choose a topic from the variety of ongoing projects. Depending on the scientific question addressed by the research team at the Chair, the methodological approach involves techni- ques in the field of metabolomics/bioanalytics and/or molecular biology. In this module, students will be trai- ned to use quantitative metabolite analysis methods (chromatography, mass spectrometry) and apply advanced molecular biology techniques. Depending on the project, different model organisms are studied. Prior knowled- ge in metabolite analysis or train students in the laboratory. The module involves the ex- perimental design, realisation and critical evaluation of scientific experiments as well as the documentation and presentation of the progress. More information is available on request or can be found at http://www.pbio.bio- zentrum.uni-wuerzburg.de/. Intended learning outcomes Students will be trained in using specific molecular biology methods and/or metabolomics approaches to ad- dress scientific questions, in the documentation of experimental procedures and results, and in the interpretati-						
on of d		umber of weekly cor	itact hours, language –	- if other than Germa	an)	
P (14) - Modul		n: German and/or Er	glish			
			language — if other the can be chosen to earn		ition offered — if not	every seme-
b) log c) oral d) oral e) pres	a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English					
Alloca	tion of pla	ices				
Additio	onal infor	mation				
Workload						
300 h						
Teaching cycle						
Deferre	Deferred to in LDO L (even institute regulations for the shine desure and even and even					
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appears	in				
Master's w	vith 1 major Bi	osciences (2017)	-	generated 19-Apr-2025 • ex er (120 ECTS) Biowissenscha	-	page 193 / 265

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

Master's degree (1 major) FOKUS Life Sciences (2015)

Master's degree (1 major) Biosciences (2016)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Biosciences (2017)

Master's degree (1 major) Biosciences (2018)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 194 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation	
Pharmaceutic	al Biology and Metabol	omics F2		07-MS3PBMF2-152-	m01
Module coord	inator		Module offered by		
	Chair of Pharmaceutical	1	Faculty of Biology		
·	od of grading	Only after succ. con	pl. of module(s)		
	successfully completed				
Duration	Module level	Other prerequisites			
1 semester	graduate	<u> </u>			
Contents Students will be involved in current research projects in pharmaceutical biology or in collaborative research projects that focus on the regulation of metabolism and analysis of metabolic pathways (e. g. in the context of reactions towards biotic or abiotic stress, functional and phenotypic analysis of mutants, or drug metabolism). Aspects of the scientific question will be independently addressed by the students. Molecular biology methods and/or metabolomic approaches will be optimised for and adapted to the specific problem. Experimental results and progress in the understanding of biological problems will be documented in the form of a log and presented in a seminar. More information is available on request or can be found at http://www.pbio.biozentrum.uni-wu-erzburg.de/. Intended learning outcomes The participants are able to independently carry out scientific experiments and to modify them according to the outcome. They are able to independently approach scientific topics in pharmaceutical biology and to perform, interpret and document experiments, adhering to accepted rules of scientific practice. They are able to apply specific techniques required to answer scientific questions. Courses (type, number of weekly contact hours, language — if other than German)					
	t in: German and/or Eng				
	sessment (type, scope, l ion on whether module o			tion offered — if not	every seme-
b) log (15 to 30 c) oral examin d) oral examir e) presentatio	mination (30 to 60 minu o pages) or ation of one candidate o nation in groups of up to n (20 to 45 minutes) ssessment: German and	each (30 to 60 minute 3 candidates (30 to 6	s) or	Dr	
Allocation of p	olaces				
Additional inf	ormation				
Workload					
450 h					
Teaching cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appea	ars in				
Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Master's with 1 major	r Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschaf	-	page 195 / 265

Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2027)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 196 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Physio	logical	Plant Ecology F1			07-MS3PPEF1-152-r	n01
Module	e coord	inator		Module offered by	·	
holder	of the O	hair of Plant Physiolog	y and Biophysics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con			
10		rical grade		• • • • •		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
			d scientist, students w			
			nphasis will be placed			
	ween plants and abiotic and biotic environmental factors (e. g. water relations, stress, biogeography). Working concepts and complex experiments will be designed, and the results will be documented and presented in the					
form of a presentation, a publication or a log. The participants will be involved in ongoing projects and will dee-						
			cial methods, in ecoph			
-		ning outcomes		, , , , , , , , , , , , , , , , , , , ,		,
			scientific experiments i	in the field of physic	logical plant acales	, and to an
			so able to address and			
		ing to the rules of good		document question		ogy/ccopily
Course	s (type	number of weekly con	tact hours, language –	- if other than Germa	ın)	
P (14) +						
Module	e taugh	t in: German and/or En	glish			
			language — if other the can be chosen to earn		tion offered — if not	every seme-
a) writt	en exar	mination (30 to 60 min	utes, including multiple	e choice questions) (or	
		pages) or	,			
			each (30 to 60 minute			
			o 3 candidates (30 to 6	o minutes) or		
		n (20 to 45 minutes)	d / F			
		ssessment: German ar	id/or English			
Allocat	ion of p	llaces				
 Additia		ormation				
Auultit						
Worklo	ad					
300 h						
-	ng cycl	2				
		-				
Referre	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
Module appears in						
Master	's degre	ee (1 major) Biology (20	015)			
	-	ee (1 major) FOKUS Life	_			
	Master's degree (1 major) Biosciences (2016)					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
		•	Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Bioscience				
		ee (1 major) Bioscience				
Master's w	ith 1 major	Biosciences (2017)		generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschat	-	page 197 / 265



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 198 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module					Abbreviation	
Physio	logical	Plant Ecology F2			07-MS3PPEF2-152-1	m01
Module	e coord	inator		Module offered by	<u> </u>	
		Chair of Plant Physiolog	and Biophysics	Faculty of Biology	· · · · · · · · · · · · · · · · · · ·	
ECTS	1	od of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
15		successfully completed				
Duratio	<u> </u>	Module level	Other prerequisites			
1 seme		graduate				
Conten		0				
gy and this wo on and measu where r	Students will work on projects taken from ongoing research in the supervisors' labs in the field of plant ecolo- gy and ecophysiology (e. g. plant-insect-, plant-fungus interactions; biogeography; water relations). They will do this work to a large extent on their own responsibility by performing advanced experiments, their documentati- on and evaluation. Based on the results obtained, the ecophysiological and analytical methods applied (e. g. measurement of transpiration, fluorescence microscopy, chlorophyll-fluorometry) will be critically assessed, and, where necessary, modified. The progress of the experiments and their contribution to more general projects will be documented and presented in the form of presentations, publications or logs.					They will do ocumentati- olied (e.g. ssessed, and,
Intende	ed learı	ning outcomes				
They ar	e able	•	experimental setups a earch, to collect data a		•	
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
P (29) + Module		t in: German and/or En	glish			
Method	d of ass	essment (type, scope,	language — if other th	an German, examina	tion offered — if not	every seme-
ster, in	formati	on on whether module	can be chosen to earn	a bonus)		
b) log (c) oral d) oral e) pres	15 to 30 examin examin entatio	o pages) or ation of one candidate	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 nd/or English	s) or	or	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
450 h						
Teachi	ng cycl	9				
	<u> </u>					
Referre	d to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Module	e appea	irs in				
			015)			
	Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2016)					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supple	Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience				
Master's wi	ith 1 majoi	Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 199 / 265



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 200 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Curet a	le title			Abbreviation	
Systems Biology				07-MS3S-152-m01	
Madul	le coordinator		Madula offered by		
			Module offered by		
	r of the Chair of Bioinformatics		Faculty of Biology		
ECTS	Method of grading	Only after succ. con	npl. of module(s)		
10	numerical grade				
Durati		Other prerequisites			
1 seme	ester graduate				
Conter	nts				
sults f	ices and current results of com from functional genomics, dyn ulatory networks.				
Intend	led learning outcomes				
ledge	stand recent results in system of typical technologies and re	search questions of sys	tems biology.		r) level know-
	es (type, number of weekly co	ntact hours, language –	- if other than Germa	in)	
V (2) + Modul	- S (1) le taught in: German and/or Er	nglish			
	od of assessment (type, scope nformation on whether module			tion offered — if not	every seme-
Langua	l examination in groups of up t age of assessment: German a tion of places		o minutes)		
Additi	onal information				
Worklo					
300 h	•				
Teach	ing cycle				
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
Referro	red to in LPO I (examination re	gulations for teaching-	degree programmes)		
	red to in LPO I (examination re	gulations for teaching-	degree programmes)		
 Modul			degree programmes)		
 Modul Maste	le appears in	stry (2015)	degree programmes)		
 Modul Master Master	le appears in r's degree (1 major) Biochemis	stry (2015) 015)	degree programmes)		
 Modul Master Master Master	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat	stry (2015) 015) ics (2016) ional Mathematics (201			
 Modul Master Master Master Master	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscienc	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016)	6)		
 Modul Master Master Master Master Master	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscienco r's teaching degree Gymnasiu	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat	6) ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Modul Master Master Master Master Supple	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscienco r's teaching degree Gymnasiu ementary course MINT Teache	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat r Education PLUS, Elite	6) ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Master Master Master Master Master Supple Master	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscience r's teaching degree Gymnasiu ementary course MINT Teache r's degree (1 major) Bioscience	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017)	6) ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Mastel Mastel Mastel Mastel Mastel Supple Mastel Mastel	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscienco r's teaching degree Gymnasiu ementary course MINT Teache r's degree (1 major) Bioscienco	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017) stry (2017)	6) ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
 Mastel Mastel Mastel Mastel Mastel Mastel Mastel Mastel Mastel	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscience r's teaching degree Gymnasiu ementary course MINT Teache r's degree (1 major) Bioscience r's degree (1 major) Bioscience	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017) stry (2017) es (2018)	6) ion PLUS, Elite Netw Network Bavaria (EN	ork Bavaria (ENB) (2	016)
 Master Master Master Master Master Master Master Master Master Master	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscience r's teaching degree Gymnasiu ementary course MINT Teache r's degree (1 major) Bioscience r's degree (1 major) Bioscience r's degree (1 major) Bioscience	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017) stry (2017) es (2018) ional Mathematics (201	6) ion PLUS, Elite Netw Network Bavaria (EN	ork Bavaria (ENB) (2	016)
 Master Master Master Master Master Master Master Master Master Master	le appears in r's degree (1 major) Biochemis r's degree (1 major) Biology (2 r's degree (1 major) Mathemat r's degree (1 major) Computat r's degree (1 major) Bioscience r's teaching degree Gymnasiu ementary course MINT Teache r's degree (1 major) Bioscience r's degree (1 major) Bioscience	stry (2015) 015) ics (2016) ional Mathematics (201 es (2016) m MINT Teacher Educat r Education PLUS, Elite es (2017) stry (2017) es (2018) ional Mathematics (201 ics (2019)	6) ion PLUS, Elite Netw Network Bavaria (EN	ork Bavaria (ENB) (2 B) (2016)	016) page 201/265

UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Biochemistry (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 202 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation		
Plant S	ignalli	ng F1			07-MS3SPF1-152-m	01
Module	e coord	inator		Module offered by		
			v and Pionhysics	· · · · ·		
	1	Chair of Plant Physiolog		Faculty of Biology		
ECTS		od of grading rical grade	Only after succ. con	ipi. of module(s)		
10	<u> </u>					
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten						
Molecular mechanisms of plant signal transduction and regulation of gene expression will be investigated in the context of plant-pathogen interaction, plant responses to abiotic stress, lipid signalling and plant hormone signalling. Specific molecular biology methods which are suitable to address these topics will be applied. In addition, students will gain experience in designing appropriate experimental approaches as well as in the documentation and presentation of results. Students will work on a current research project and learn to independently plan and perform the experiments. More information is available on request or can be found at http://www.p-bio.biozentrum.uni-wuerzburg.de/.				ormone si- lied. In addi- he documen- pendently		
Intend	ed learr	ning outcomes				
		pe trained to apply specent experimental proce				ntific questi-
Course	s (type,	number of weekly con	tact hours, language –	- if other than Germa	ın)	
P (14) + Module		t in: German and/or Eng	glish			
		essment (type, scope,	,	an German, examina	tion offered — if not	every seme-
		on on whether module				every serie
b) log (c) oral d) oral e) pres	(15 to 30 examin examin entatio	nination (30 to 60 minu pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes) ssessment: German an	each (30 to 60 minute 9 3 candidates (30 to 6	s) or	or	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo						
	au					
300 h						
Teachi	ng cycl	9				
Referre	ed to in	LPOI (examination reg	ulations for teaching-	degree programmes)		
Module	e appea	rs in				
Master's degree (1 major) Biology (2015)						
	Master's degree (1 major) Biosciences (2016)					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience)
		ning degree Gymnasium				
waster s W	ini i major	Biosciences (2017)	-	generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 203 / 265

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 204 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title			Abbreviation	
Plant S	ignalling F2			07-MS3SPF2-152-m	101
	1				
	e coordinator		Module offered by		
	of the Chair of Plant Physiolo		Faculty of Biology		
ECTS	Method of grading	Only after succ. co	mpl. of module(s)		
15	(not) successfully completed				
Duratio		Other prerequisites	5		
1 seme	ster graduate				
Conten	ts				
and str bioanal be pres	Its will independently work or ress responses. Results will be lytical methods which are use sented in a seminar. More info ni-wuerzburg.de/.	e discussed in the cont ed will be evaluated an	ext of recent publica d optimised. The aim	tions. The molecular and progress of the	r biology and e project will
Intende	ed learning outcomes				
molecu	ts are able to independently Ilar biology and bioanalytics t are able to independently wor	o address scientific qu	estions in the field o	•	
Course	s (type, number of weekly cor	itact hours, language -	– if other than Germa	in)	
P (29) +	+ S (1)				
	e taught in: German and/or Er	glish			
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
a) writt	en examination (30 to 60 min	utes, including multipl	le choice questions)	or	
	15 to 30 pages) or				
	examination of one candidate				
	examination in groups of up t entation (20 to 45 minutes)	o 3 candidates (30 to 6	so minutes) or		
	ige of assessment: German ai	nd/or English			
	ion of places				
••••••					
Additio	nal information				
Worklo	ad				
450 h					
Teachir	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
Module	e appears in				
Master	's degree (1 major) Biology (2	015)			
Master'	's degree (1 major) Bioscience	es (2016)			
	's teaching degree Gymnasiu				016)
	mentary course MINT Teache		Network Bavaria (EN	B) (2016)	
	's degree (1 major) Bioscience				
	's degree (1 major) Bioscience				`
	's teaching degree Gymnasiu				020)
	mentary course MINT Teache ith 1 major Biosciences (2017)		• generated 19-Apr-2025 • exa		page 205 / 265
			ter (120 ECTS) Biowissenscha		Page 2037 205

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 206 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Modul	e title				Abbreviation	
System	ns Biolo	ogy F1			07-MS3SYF1-152-m	01
Modul	e coord	inator		Module offered by	<u> </u>	
		Chair of Bioinformatics		Faculty of Biology		
ECTS		od of grading	Only after succ. con			
10 numerical grade			Only after succ. compl. of module(s)			
Duration Module level		Other prerequisites				
1 seme		graduate				
Conter	nts					
ticular, proteir	, make : n structi	course will provide stude students proficient in a c ure analysis and protein tein-protein interactions	lynamical method in s folding, genome anal	systems biology (are ysis and evolution; o	as that may be selectly as that may be selectly as that may be selectly as the	cted include alysis, the dy-
Intend	ed lear	ning outcomes				
They a	re able	e gained knowledge on e to design scientific resea scientific practice.				
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	ın)	
P (14) -		t in: German and/or Eng	lich			
				an Carman, avamina	tion offered if not	
		essment (type, scope, la on on whether module c			ition offered — if not	every seme-
b) log (c) oral d) oral e) pres	(15 to 30 examin examir entatio	mination (30 to 60 minut p pages) or ation of one candidate e lation in groups of up to n (20 to 45 minutes) ssessment: German and	each (30 to 60 minute 3 candidates (30 to 6	s) or	or	
Allocat	tion of p	olaces				
Additio	onal inf	ormation	-			
Worklo	bad		_			
300 h		-				
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination regu		degree programmes)		
Modul	e appea	irs in				
		ee (1 major) Biology (201	.5)			
	-	ee (1 major) FOKUS Life S	-			
	-	ee (1 major) Mathematic	-			
	-	ee (1 major) Computation		6)		
Master's degree (1 major) Biosciences (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supple	ementai	y course MINT Teacher E	ducation PLUS, Elite	Network Bavaria (EN	B) (2016)	
Master	's degr	ee (1 major) Biosciences	(2017)			
Master's w	ith 1 majo	Biosciences (2017)		er (120 ECTS) Biowissenscha		page 207 / 265

Master's degree (1 major) Biosciences (2018)

Master's degree (1 major) Computational Mathematics (2019)

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 208 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Systems Biology F2 07-MS3SYF2-152-m01					01	
Module coordinator		Module offered by				
holder	r of the Chair of Bioinformatics		Faculty of Biology			
ECTS	Method of grading Only after succ. con					
15			•			
Duration Module level Other prerequisites						
1 semester graduate						
Conten						
ticular, protein namics ling). T	make s structu of prof he tech	course will provide stud students proficient in a ure analysis and protei cein-protein interaction niques applied are eva ure documented in the	dynamical method in n folding, genome anal s, modelling cellular re luated on the basis of	systems biology (are lysis and evolution; o gulation; modelling the results obtained	as that may be seled dynamic network and metabolism, statisti and are modified w	cted include alysis, the dy- cal model-
Intend	ed learı	ning outcomes				
nise a s	scientif	one or more methods i ic project in the field of arch project and are pre	bioinformatics and to	document the result	s obtained. Student	
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
P (29) - Module		t in: German and/or En	glish			
Metho	d of ass	essment (type, scope,	language — if other th		tion offered — if not	every seme-
b) log (c) oral d) oral e) pres	ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English					
Allocation of places						
Additio	Additional information					
Additio						
Worklo	ad					
450 h						
Teachi	ng cycl	9				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in				
Master	's degr	ee (1 major) Biology (20	015)			
	-	ee (1 major) Mathemati				
	-	ee (1 major) Computati		.6)		
	-	ee (1 major) Bioscience				
		ning degree Gymnasiur				016)
		y course MINT Teacher		Network Bavaria (EN	B) (2016)	
		ee (1 major) Bioscience	-	gonorated to Apr age a	am rag da	page 200 / 2/-
master's W	iui i majoi	DIUSCIERCES (2017)		• generated 19-Apr-2025 • exa er (120 ECTS) Biowissenscha	-	page 209 / 265

Master's degree (1 major) Biosciences (2018)

Master's degree (1 major) Computational Mathematics (2019)

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Biosciences (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 210 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module					Abbreviation
Topics in Systems Biology					07-MS3TSY-152-m01
Module coordinator				Module offered by	
holder of the Chair of Bioinformatics			c	Faculty of Biology	
		Only after succ. con			
10	<u> </u>	rical grade			
Duration Module level Other prerequisites					
1 seme	-	graduate			
Conten		Sidduite			
Advano sults fr	ces and rom fun				and discussed, this includes re- and metabolic networks as well
Intende	ed learı	ning outcomes			
			ns biology. Discuss their esearch questions of sys		an advanced (Master) level know
Course	es (type	, number of weekly co	ontact hours, language –	- if other than Germ	an)
V (2) +	S (1)	t in: English			
	d of ass	accord (turno coord			
a) writt c) oral	en exar examin	on on whether modul nination (30 to 60 mi ation of one candidat	e can be chosen to earn nutes, including multiple e each (30 to 60 minute	a bonus) e choice questions) s) or	
a) writt c) oral d) oral Studen Langua	en exar examin examin nts will l age of a	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua	ten exar examin examin nts will l	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	
a) writt c) oral d) oral Studen Langua Allocat 	en exar examin examin nts will l age of a tion of p	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua Allocat 	en exar examin examin nts will l age of a tion of p	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a blaces	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua Allocat Additio	ten exar examin examin nts will l age of a tion of p onal infe	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a blaces	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua Allocat Additio Worklo	ten exar examin examin nts will l age of a tion of p onal infe	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a blaces	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua Allocat Additio Worklo 300 h	ten exar examin examin nts will l age of a tion of p onal info	on on whether modul mination (30 to 60 mi ation of one candidat nation in groups of up be informed about the ssessment: German a places	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua Allocat Additio Worklo 300 h	ten exar examin examin nts will l age of a tion of p onal infe	on on whether modul mination (30 to 60 mi ation of one candidat nation in groups of up be informed about the ssessment: German a places	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes)	or
a) writt c) oral d) oral Studen Langua Allocat Worklo 300 h Teachin	ten exar examin examin nts will l age of a tion of p onal info pad	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a places ormation	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sc and/or English	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Worklo 300 h Teachin Referre	ten exar examin examin nts will l age of a tion of p onal info pad	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a places ormation	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Morklo 300 h Teachin Referre	en exar examin examin its will l age of a tion of p onal info onal info oad	on on whether modul mination (30 to 60 mi ation of one candidat ation in groups of up be informed about the ssessment: German a places ormation e LPO I (examination r	e can be chosen to earn nutes, including multiple e each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sc and/or English	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Additio Worklo 300 h Teachin Referre Module	ten exar examin examin age of a tion of p onal info pad ng cyclo ed to in e appea	on on whether modul mination (30 to 60 mi ation of one candidat pation in groups of up be informed about the ssessment: German a places ormation e LPO I (examination r	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Morklo 300 h Teachin Referre Module	en exar examin examin its will l age of a tion of p onal info onal info oad ed to in e appea	on on whether modul mination (30 to 60 mi ation of one candidat pation in groups of up be informed about the ssessment: German a blaces ormation e (1 major) Biology (2	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English egulations for teaching-o	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Additio 300 h Teachin Referre Module Master Master	en exar examin examin age of a tion of p onal info onal info oad ed to in e appea d's degro	on on whether modul mination (30 to 60 mi ation of one candidat pation in groups of up be informed about the ssessment: German a places ormation e LPO I (examination r	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English egulations for teaching-o 2015) fe Sciences (2015)	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Additio 300 h Teachin Referre Module Master Master Master	ten exari examin examin age of a tion of p onal info pad ng cyclo ed to in e appea d's degro	on on whether modul mination (30 to 60 mi ation of one candidat nation in groups of up be informed about the ssessment: German a places ormation e LPO I (examination r mrs in ee (1 major) Biology (2 ee (1 major) FOKUS Lit	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English egulations for teaching-o 2015) fe Sciences (2015) ces (2016)	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Additio Worklo 300 h Teachin Referre Module Master Master Master Master	en exar examin examin age of a tion of p onal info onal	on on whether modul mination (30 to 60 mi ation of one candidat pation in groups of up be informed about the ssessment: German a places ormation e LPO I (examination r ms in ee (1 major) Biology (2 ee (1 major) Biology (2 eo (1 major) Biology (2	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English egulations for teaching-o 2015) fe Sciences (2015) tes (2016) tes (2017)	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Modditio 300 h Teachin Referre Master Master Master Master Master Master	en exar examin examin age of a tion of p onal info onal info onal info ed to in e appea d's degro d's degro d's degro	on on whether modul mination (30 to 60 mi ation of one candidat pation in groups of up be informed about the ssessment: German a places ormation e LPO I (examination r rs in ee (1 major) Biology (2 ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English egulations for teaching- 2015) fe Sciences (2015) tes (2016) tes (2017) tes (2018)	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Modditio 300 h Teachin Referre Master Master Master Master Master Master Master Master	en exar examin examin age of a tion of p onal info onal	on on whether modul mination (30 to 60 mi ation of one candidat pation in groups of up be informed about the ssessment: German a blaces ormation e LPO I (examination r ms in ee (1 major) Biology (2 ee (1 major) Biology (2 ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sco and/or English egulations for teaching- continue 2015) fe Sciences (2015) tes (2017) tes (2018) tes (2021)	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.
a) writt c) oral d) oral Studen Langua Allocat Additio Worklo 300 h Teachin Referre Master Master Master Master Master Master Master Master Master	en exari examin examin age of a tion of p onal info onal info o is degra 's degra 's degra 's degra 's degra	on on whether modul mination (30 to 60 mi ation of one candidat nation in groups of up be informed about the ssessment: German a blaces ormation e LPO I (examination r e (1 major) Biology (a ee (1 major) Biology (a ee (1 major) Bioscience ee (1 major) Bioscience	e can be chosen to earn nutes, including multiple te each (30 to 60 minute to 3 candidates (30 to 6 e method, length and sce and/or English egulations for teaching- continue 2015) fe Sciences (2015) tes (2016) tes (2017) tes (2018) tes (2021) tes (2023)	a bonus) e choice questions) s) or o minutes) ope of the assessm	or ent prior to the course.

	e title			Abbreviation	
External Internship 1				07-MSA1-152-m01	
Module coordinator			Module offered by		
Coordir			Faculty of Biology		
ECTS					
5 (not) successfully completed					
Duration Module level Other prerequisites					
1 semester graduate Please consult with course advisory service in advance.					
Contents					
Practica	al course during stay abroad o	n a selected topic in bi	iology (duration: 2-3	weeks).	
	ed learning outcomes			· · · · · ·	
Proficie	ency in selected methods and l and techniques later on in a res		elected fields of biolo	ogy. Ability to apply t	hese me-
Course	s (type, number of weekly cont	act hours, language –	- if other than Germa	n)	
P (10)					
Module	e taught in: German and/or Eng	lish			
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
a) writt	en examination (30 to 60 minu	tes, including multiple	e choice questions) (or	
	15 to 30 pages) or				
	examination of one candidate				
	examination in groups of up to	3 candidates (30 to 6	o minutes) or		
	entation (20 to 45 minutes) ge of assessment: German and	l/or English			
	ion of places				
Allocal					
Additio	nal information				
Auditio					
		_			
Worklo	ad				
150 h					
	ng cycle				
Teachir 	-				
Teachir 	ng cycle ed to in LPO I (examination reg	ulations for teaching-o	degree programmes)		
Teachir Referre 	d to in LPO I (examination reg	ulations for teaching-o	degree programmes)		
Teachir Referre Module	ed to in LPO I (examination reg		degree programmes)		
Teachir Referre Module Master	ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20	15)	degree programmes)		
Teachir Referre Module Master' Master	ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Biosciences	15) 5 (2016)			
Teachir Referre Module Master' Master' Master'	ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Biosciences 's teaching degree Gymnasium	15) 5 (2016) MINT Teacher Educat	ion PLUS, Elite Netwo		D16)
Teachir Referre Module Master' Master' Supple	d to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Biosciences 's teaching degree Gymnasium mentary course MINT Teacher	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I	ion PLUS, Elite Netwo		016)
Teachir Referre Master' Master' Master' Supple Master'	ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Biosciences 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Biosciences	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017)	ion PLUS, Elite Netwo		016)
Teachir Referre Master' Master' Master' Supple Master' Master'	ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Biosciences 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Biosciences 's degree (1 major) Biosciences	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018)	ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016)	
Teachir Referre Module Master' Master' Master' Master' Master' Master' Master'	ed to in LPO I (examination reg e appears in l's degree (1 major) Biology (20 l's degree (1 major) Biosciences l's teaching degree Gymnasium mentary course MINT Teacher l's degree (1 major) Biosciences l's degree (1 major) Biosciences l's teaching degree Gymnasium	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018) MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
Teachir Referre Module Master' Master' Master' Supple Master' Master' Supple Master' Supple	ed to in LPO I (examination reg e appears in d's degree (1 major) Biology (20 d's degree (1 major) Biosciences d's teaching degree Gymnasium mentary course MINT Teacher d's degree (1 major) Biosciences d's teaching degree Gymnasium mentary course MINT Teacher	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018) MINT Teacher Educat Education PLUS, Elite I	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
Teachir Referre Module Master' Master' Master' Master' Master' Master' Supple Master' Supple Master'	ed to in LPO I (examination reg e appears in s degree (1 major) Biology (20 s degree (1 major) Biosciences s teaching degree Gymnasium mentary course MINT Teacher s degree (1 major) Biosciences s teaching degree Gymnasium mentary course MINT Teacher s degree (1 major) Biosciences	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018) MINT Teacher Educat Education PLUS, Elite I 5 (2021)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
Teachir Referre Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master'	ed to in LPO I (examination reg e appears in T's degree (1 major) Biology (20 T's degree (1 major) Biosciences T's teaching degree Gymnasium mentary course MINT Teacher T's degree (1 major) Biosciences T's teaching degree Gymnasium mentary course MINT Teacher T's degree (1 major) Biosciences T's degree (1 major) Biosciences	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018) MINT Teacher Educat Education PLUS, Elite I 5 (2021) 5 (2023)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
Teachir Referre Module Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master'	ed to in LPO I (examination reg e appears in l's degree (1 major) Biology (20 l's degree (1 major) Biosciences l's teaching degree Gymnasium mentary course MINT Teacher l's degree (1 major) Biosciences l's teaching degree Gymnasium mentary course MINT Teacher l's degree (1 major) Biosciences l's degree (1 major) Biosciences l's degree (1 major) Biosciences	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018) MINT Teacher Educat Education PLUS, Elite I 5 (2021) 5 (2023) 5 (2024)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016) ork Bavaria (ENB) (20 B) (2020)	020)
Teachir Referre Module Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master'	ed to in LPO I (examination reg e appears in T's degree (1 major) Biology (20 T's degree (1 major) Biosciences T's teaching degree Gymnasium mentary course MINT Teacher T's degree (1 major) Biosciences T's teaching degree Gymnasium mentary course MINT Teacher T's degree (1 major) Biosciences T's degree (1 major) Biosciences	15) 5 (2016) MINT Teacher Educat Education PLUS, Elite I 5 (2017) 5 (2018) MINT Teacher Educat Education PLUS, Elite I 5 (2021) 5 (2023) 5 (2024) MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016) ork Bavaria (ENB) (20 B) (2020) ork Bavaria (ENB) (20	020)



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 213 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Modul	e title				Abbreviation
Extern	al Inter	nship 2			07-MSA2-171-m01
Module coordinator				Module offered by	
Coordinator BioCareers		Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. com		
10	1	successfully completed			
Duration Module level Other prerequisites					
	1 semester graduate Please consult with course advisory service in advance.		vice in advance.		
Conter		0		,	
Externa	al place	ment on a biological top to present their data.	c. Students spend 4-	6 weeks working on	a well-defined scientific project
Intend	ed lear	ning outcomes			
		selected methods and la hniques later on in a rese		lected fields of biolo	ogy. Ability to apply these me-
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)
P (15) Module	e taugh	t in: German and/or Engl	ish		
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme
d) oral e) pres	examir entatio	ation of one candidate e ation in groups of up to g n (20 to 45 minutes) ssessment: German and,	3 candidates (30 to 6	-	
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Modul	e appea	irs in			
Module appears in Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021)					
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences		on DILIC Elita Natur	ork Pavaria (ENP) (acar)
		ning degree Gymnasium I Ty course MINT Teacher Eo			
- appre	mentu			Letter Bavana (LIV	-, (),

Module title				Abbreviation		
Extern	External Internship 3 07-MSA3-152-mo1					
Module coordinator Module offered by			Module offered by	<u> </u>		
Coordi	Coordinator BioCareers			Faculty of Biology		
ECTS			· · · · · · · · · · · · · · · · · · ·			
15 (not) successfully completed						
Duration Module level Other prerequisites						
	I semester graduate Please consult with course advisory service in advance.					
Conter	Contents					
		ent on a biological to ow to present their da	pic. Students spend 6 ata.	-9 weeks working on	a well-defined scier	ntific lab pro-
-		ng outcomes				
			lab techniques from se	elected fields of biolo	ngy Ability to apply	these me-
		iques later on in a re			by. Ability to apply	
Course	es (type, n	umber of weekly con	tact hours, language –	- if other than Germa	n)	
P (30) Modul	e taught i	n: German and/or En	glish			
			language — if other th	an German, examina	tion offered — if not	every seme-
			can be chosen to earn			,
			utes, including multipl	e choice questions)	or	
	(15 to 30 j			`		
			each (30 to 60 minute			
		(20 to 45 minutes)	o 3 candidates (30 to 6	o minutes) or		
		essment: German an	d/or English			
	tion of pla					
Additio	onal infor	mation				
Worklo	oad					
450 h						
Teachi	ing cycle					
Referre	ed to in Ll	POI (examination reg	gulations for teaching-	degree programmes)		
Modul	e appears	s in				
Master	r's degree	(1 major) Biology (20	015)			
	-	(1 major) Bioscience				
		,	n MINT Teacher Educat			016)
	Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
	-	(1 major) Bioscience				
	-	(1 major) Bioscience				
			n MINT Teacher Educat			020)
	•		Education PLUS, Elite	ivetwork Bavaria (EN	в) (2020)	
	-	(1 major) Bioscience				
	-	(1 major) Bioscience (1 major) Bioscience	-			
master	i s uegiee		3 (2024)			
Master's w	vith 1 major Bi	osciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 215 / 265



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 216 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title				Abbreviation	
Systems Biol	ogy B			07-MS-B-152-m01	
Module coord	lineter		Madula offered by		
			Module offered by		
	Chair of Bioinformatics		Faculty of Biology		
	od of grading	Only after succ. con	ipl. of module(s)		
<u> </u>	successfully completed				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
	ctional genomics, dyn	putational systems bio amics of the transcripto			
Intended lear	ning outcomes				
		s biology. Discuss their search questions of sys		an advanced (Maste	r) level know-
Courses (type	, number of weekly co	ntact hours, language –	- if other than Germa	n)	
V (2)					
	it in: German and/or Er	nglish			
Method of as	sessment (type, scope	, language — if other tha	an German, examina	tion offered — if not	every seme-
		e can be chosen to earn			
		utes, including multiple		or	
		e each (30 to 60 minute	-		
	nation in groups of up t issessment: German a	to 3 candidates (30 to 6	o minutes)		
Allocation of	places				
Additional in	ormation				
Workload					
150 h					
Teaching cyc	e				
Referred to in	LPO I (examination re	gulations for teaching-o	degree programmes)		
Module appe	ars in				
	ree (1 major) Biology (2	015)			
-	ee (1 major) Biology (2 ee (1 major) Biomedici	-			
-	ee (1 major) Mathemat				
-	-	onal Mathematics (201	6)		
-	ee (1 major) Bioscience				
-	-	m MINT Teacher Educat	ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)
		r Education PLUS, Elite I			
Master's deg	ee (1 major) Bioscienc	es (2017)			
	ee (1 major) Biomedici	ne (2018)			
-	-				
Master's degi	ee (1 major) Bioscienc				
Master's degi Master's degi	ee (1 major) Bioscienco ee (1 major) Computat	onal Mathematics (201	9)		
Master's degi Master's degi	ee (1 major) Bioscienc	onal Mathematics (201	9)		
Master's degr Master's degr Master's degr	ee (1 major) Bioscienco ee (1 major) Computat	onal Mathematics (201 ics (2019) JMU Würzburg •	9) generated 19-Apr-2025 • exa er (120 ECTS) Biowissenschal	-	page 217 / 265

UNIVERSITÄT WÜRZBURG

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Biosciences (2023)

Master's degree (1 major) Biosciences (2024)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 218 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	<u>e titl</u> e				Abbreviation
Bioche	mistry,	Physiology and Genetic	s of Mammalian Cell	Culture	07-MSCC-152-m01
Modul	e coord	inator		Module offered by	<u> </u>
			· (D: 1)	-	
-	<u>r</u>	mme coordinator Biologi		Faculty of Biology	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	<u> </u>	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
	eneratio				d cell structures, cell prolifera- ts, fundamental cell analytical
Intend	ed lear	ning outcomes			
		able to understand the bies ese techniques.	iochemistry, physiolo	gy and genetics of r	nammalian cell culture, and are
		, number of weekly conta	act hours. language –	- if other than Germa	an)
S (3)		t in: English			
			anguage — if other the	an German examin	ation offered — if not every seme
					ation onered — If not every seme
		on on whether module c	an be chosen to earn	a bonus)	
a) writt				-	or
	en exa	mination (30 to 60 minut		-	or
b) log (en exai (15 to 30	mination (30 to 60 minut o pages) or	es, including multiple	e choice questions)	or
b) log (c) oral	en exa (15 to 30 examin	mination (30 to 60 minut o pages) or ation of one candidate e	es, including multiple each (30 to 60 minute	e choice questions) s) or	or
b) log (c) oral d) oral	en exa (15 to 30 examin examir	mination (30 to 60 minut o pages) or ation of one candidate e ation in groups of up to	es, including multiple each (30 to 60 minute	e choice questions) s) or	or
b) log (c) oral d) oral e) pres	en exai (15 to 30 examin examir entatio	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes)	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua	en exar (15 to 30 examin examir entatio age of a	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua	en exai (15 to 30 examin examir entatio	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat	en exar 15 to 30 examin examir entatio age of a ion of p	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat	en exar 15 to 30 examin examir entatio age of a ion of p	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat Additic	en exa (15 to 30 examin examir entatio age of a ion of p onal inf	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat Additic Worklo	en exa (15 to 30 examin examir entatio age of a ion of p onal inf	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat Additic Worklo 150 h	en exan (15 to 30 examin examir entatio age of a ion of p onal info	mination (30 to 60 minut o pages) or ation of one candidate e lation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat Additic Worklo 150 h	en exa (15 to 30 examin examir entatio age of a ion of p onal inf	mination (30 to 60 minut o pages) or ation of one candidate e lation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	es, including multiple each (30 to 60 minute 3 candidates (30 to 6	e choice questions) s) or	or
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin 	en exan 15 to 30 examin examir entatio age of a ion of p onal info pad	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin 	en exan 15 to 30 examin examir entatio age of a ion of p onal info pad	mination (30 to 60 minut o pages) or ation of one candidate e lation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachi Referre	en exan (15 to 30 examin examir entatio age of a ion of p onal info pad	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regu	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Additic Teachin Referre Modulo	en exar (15 to 30 examin examir entatio age of a ion of p onal info pad ng cycl ed to in	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regu	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin Referre Modulo	en exar (15 to 30 examin examir entatio age of a ion of p onal info pad ng cycl ed to in e appea	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e (1 major) Biology (201	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English 	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachi Referre Module Master Master	en exar (15 to 30 examin examir entatio ige of a ion of p onal info pad ed to in e appea 's degro	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regunation ee (1 major) Biology (201 ee (1 major) FOKUS Life S	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English 	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Morklo 150 h Teachin Referre Master Master Master Master	en exar (15 to 30 examin examin examir entatio age of a ion of p onal info paal info j is degru 's degru 's degru 's degru 's degru 's degru 's degru	mination (30 to 60 minut o pages) or ation of one candidate e bation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regu trs in ee (1 major) Biology (201 ee (1 major) Biology (201 ee (1 major) Biology (201	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English /or English	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Additic Teachin Referre Module Master Master Master Master	en exar (15 to 30 examin examin entatio age of a ion of p onal info pad ng cycl ed to in e appea 's degro 's degro 's degro	mination (30 to 60 minut o pages) or ation of one candidate e bation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regunation ee (1 major) Biology (201 ee (1 major) Biology (201 ee (1 major) Biosciences ee (1 major) Biosciences	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English lations for teaching-o 5) Sciences (2015) (2016) (2017)	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Additic Teachin Referre Module Master Master Master Master	en exar (15 to 30 examin examin entatio age of a ion of p onal info pad ng cycl ed to in e appea 's degro 's degro 's degro	mination (30 to 60 minut o pages) or ation of one candidate e bation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regu trs in ee (1 major) Biology (201 ee (1 major) Biology (201 ee (1 major) Biology (201	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English lations for teaching-o 5) Sciences (2015) (2016) (2017)	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachin Referre Master Master Master Master Master	en exal (15 to 30 examin examir entatio age of a ion of p onal info pad ng cycl ed to in e appea 's degru 's degru 's degru 's degru	mination (30 to 60 minut o pages) or ation of one candidate e bation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regunation ee (1 major) Biology (201 ee (1 major) Biology (201 ee (1 major) Biosciences ee (1 major) Biosciences	es, including multiple each (30 to 60 minute 3 candidates (30 to 6 /or English lations for teaching-o 5) Sciences (2015) (2016) (2017) (2018)	e choice questions) s) or o minutes) or	
b) log (c) oral d) oral e) pres Langua Allocat Worklo 150 h Teachi Referre Master Master Master Master Master Master Master	en exal (15 to 30 examin examir entatio age of a ion of p onal info pad ed to in 's degru 's degru 's degru 's degru 's degru 's degru	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation e LPO I (examination regunst the set of the set of the set of the set or sin e (1 major) Biology (201 e (1 major) Biology (201 e (1 major) Biosciences e (1 major) Biosciences e (1 major) Biosciences e (1 major) Biosciences	ses, including multiple ach (30 to 60 minute 3 candidates (30 to 6 /or English ulations for teaching-o 5) Sciences (2015) (2016) (2017) (2018) (2021)	e choice questions) s) or o minutes) or	

Module	e title				Abbreviation
Semina	ar Expe	rimental Animal Ecology			07-MSET-152-m01
Module	e coord	inator		Module offered by	
		Chair of Animal Ecology a	and Tropical Biology	Faculty of Biology	
ECTS	1	od of grading	Only after succ. com	· · · · · · · · · · · · · · · · · · ·	
2		successfully completed			
Duratio	<u> </u>	Module level	Other prerequisites		
1 seme		graduate			
Conten	ts				
Bees a METI), I	nd Hon Modell	eybees, 07-MHWB), Öko	logie und Taxonomie cological Modelling, o	der Insekten (Ecolog 07-MMIE), Agrarökol	enenökologie (Ecology of Wild gy and Taxonomy of Insects, 07- ogie (Agroecology, 07-MAGRE), MTROP).
Intende	ed lear	ning outcomes			
Studen	its have		-	•	ental animal ecology and are able tions.
Course	s (type	, number of weekly conta	act hours, language —	· if other than Germa	an)
S (1) Module	taugh	t in: German and/or Eng	lich		
		-			
		on on whether module c			ation offered — if not every seme-
b) log (c) oral d) oral e) pres	15 to 30 examin examir entatio	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	each (30 to 60 minute 3 candidates (30 to 6	s) or	or
Allocat	ion of _l	olaces			
Additio	onal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	llations for teaching-o	legree programmes)	
Module	e appea	urs in			
		ee (1 major) Biology (201	.5)		
	-	ee (1 major) Biosciences	-		
	-	ee (1 major) Biosciences			
Master	's degr	ee (1 major) Biosciences	(2018)		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	'c doar	ee (1 major) Biosciences	(2021)		

Modu	le title				Abbreviation	
Molec	ular Bio	logy F1			07-MSF1-152-m01	
Modu	le coord	inator		Module offered by		
degree	e progra	mme coordinator Biolo	ogie (Biology)	Faculty of Biology		
ECTS	-	od of grading	Only after succ. cor			
10		rical grade		•		
Durati	on	Module level	Other prerequisites	i		
1 sem	ester	graduate				
Conte	nts					
scient dents ons ar	ific lab p learn to nd to do	project and learn how t apply defined experim cument their experime	llar biology. Students s o present their data. Th nental procedures and ntal work in an approp	ney learn to discuss t methods, to indeper	their data in a semin	ar. The stu-
Intend	led lear	ning outcomes				
to trar	sfer the		acquired lab skills, acc o experiments. Studen tation.			
Cours	es (type	, number of weekly cor	ntact hours, language -	- if other than Germa	an)	
P (14) Modul		t in: German and/or Er	nglish			
			, language — if other th e can be chosen to earr		ation offered — if not	every seme-
b) log c) oral d) ora e) pres	(15 to 30 examin l examir sentatio	o pages) or ation of one candidate	utes, including multipl e each (30 to 60 minute o 3 candidates (30 to 6 od/or English	s) or	or	
	tion of p					
Additi	onal inf	ormation				
Additi						
Workl						
300 h		-				
Teach	ing cycl	e				
Referr	ed to in	LPOI (examination re	gulations for teaching-	degree programmes		
	le appea					
	-	ee (1 major) Biology (2				
	-	ee (1 major) FOKUS Life ee (1 major) Bioscience	_			
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience				
	-	ee (1 major) Bioscience	-			
Maste	r's degr	ee (1 major) Bioscience	es (2024)			
Master's v	with 1 majo	Biosciences (2017)		• generated 19-Apr-2025 • ex er (120 ECTS) Biowissenscha		page 221 / 265

Modu	e title				Abbreviation	
Molec	ular Bio	logy F2			07-MSF2-152-m01	
Modu	e coord	inator		Module offered by	~	
degree	e progra	mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
15	(not)	successfully completed				
Durati	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conte	nts					
search vance	n papers d techni	ems in the field of molecu s. The participants will be ques to answer a scienti hree months) and will pro	involved in the deve fic question in molec	lopment of a researc ular biology. This pra	h plan and will lear	n to apply ad-
Intend	led lear	ning outcomes				
field o docum	f molec nent, int	able to independently wo ular biology. Students are erpret and discuss their wer scientific questions.	e able to adhere to th	e principles of good	scientific practice a	s well as to
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)	
	+ S (1)		· · · · · ·		- ·	
Modul	e taugh	t in: German and/or Engl	ish			
		sessment (type, scope, la ion on whether module c			tion offered — if not	every seme-
b) log c) oral d) oral e) pres	(15 to 3) examin examir examir sentatio	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	ach (30 to 60 minute 3 candidates (30 to 6	s) or	or	
	tion of					
Additi	onal inf	ormation				
	<u></u>					
Workl	oad					
450 h			,			
	ing cycl	ρ				
	ing cycl					
Poforr	od to in	LPOI (examination regu	lations for toaching	dogroo programmoc)		
Keleli				legiee programmes)		
Modul	e appea	are in				
		ee (1 major) Biology (201	с)			
Maste Maste Maste Maste Maste	r's degr r's degr r's degr r's degr r's degr	ee (1 major) Biology (201 ee (1 major) Biosciences ee (1 major) Biosciences	(2016) (2017) (2018) (2021) (2023)			
			<u>, /</u>			
Master's v	vith 1 majo	r Biosciences (2017)	JMU Würzburg •	generated 19-Apr-2025 • exa	am. reg. da-	page 222 / 265

ster's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 222 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module taught in: German and/or English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) anguage of assessment: German and/or English Additional information workload	Module	e title			Abbreviation	
Module coordinator Module offered by Coordinator BioCareers Faculty of Biology Coordinator BioCareers Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) 5 (not) successfully completed					07-MSL1-152-m01	
Coordinator BioCareers Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) Outration Module level Other prerequisites Exemster graduate Please consult with course advisory service in advance. Contents Practical course, summer school or workshop on specific topics in biology (duration: 2-3 weeks). Intended learning outcomes Proficiency in specific methods and lab techniques from selected fields of biology. Ability to apply these methods and techniques from selected fields of biology. Ability to apply these methods and techniques from selected fields of biology. Ability to apply these methods and techniques (scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus) 0 (a) (b) (a) (b) (a) pages) or (b) (a) (b) (a) (b) (a) pages) or 1) or (a)	Madul			Madula offered by		
ECTS Method of grading Only after succ. compl. of module(s) in (not) successfully completed						
5 (not) successfully completed			Only offer ever ear			
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Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) aster's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 223 / 265		,				020)
exchange program Biosciences (2022) Waster's degree (1 major) Biosciences (2023) Waster's degree (1 major) Biosciences (2024) aster's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 223 / 265		-		Network Bavaria (EN	B) (2020)	
Waster's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) aster's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 223 / 265						
Master's degree (1 major) Biosciences (2024) Inster's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 223 / 265		- , -				
aster's with 1 major Biosciences (2017) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da page 223 / 265						
	Master	rs degree (1 major) Bioscien	ces (2024)			
	Master's w	ith 1 major Biosciences (2017)	_		-	page 223 / 265



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 224 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation	
Labora	tory Course 2				07-MSL2-152-m01	
Modul	e coordinator			Module offered by		
	nator BioCareers		Only offer avec as m	Faculty of Biology		
ECTS	Method of grading (not) successfully comp	lotod	Only after succ. com	pl. of module(s)		
10		leleu				
Duratio			Other prerequisites		vice in educance	
1 seme	3		Please consult with	course advisory serv	nce in advance.	
Conten						
Practic	al course, summer schoo	l or wor	rkshop on specific to	oics in biology (dura	tion: 4-6 weeks).	
Intend	ed learning outcomes					
	ency in specific methods a and techniques later on ir			ected fields of biolo	gy. Ability to apply th	nese me-
Course	s (type, number of weekly	y conta	ct hours, language —	if other than Germa	n)	
P (15)						
	e taught in: German and/o	or Engli	ish			
	d of assessment (type, sc formation on whether mo				tion offered — if not	every seme-
	en examination (30 to 60				٦r	
	(15 to 30 pages) or	mmut	es, metuunig muttiple	e choice questions) (
	examination of one candi	idate ea	ach (30 to 60 minutes	s) or		
	examination in groups of		3 candidates (30 to 6	o minutes) or		
	entation (20 to 45 minute		/ F 1 ! - 1:			
	age of assessment: Germa	an and/	or English			
Allocat	ion of places					
Additio	onal information					
Worklo	ad					
300 h						
	ng cycle					
Poforro	ed to in LPO I (examination	n rogu	lations for teaching	egree programmes)		
Kelene		miegu				
	•					
	e appears in		、			
	's degree (1 major) Biolog	-				
	's degree (1 major) Biosci					
	's teaching degree Gymna					016)
	ementary course MINT Tea			vetwork Bavaria (EN	B) (2016)	
	''s degree (1 major) Biosci ''s degree (1 major) Biosci					
	's teaching degree Gymna			on PILIS Flite Netwo	ork Bayaria (FNR) (20	<u>120)</u>
MACIDI			ducation PLUS, Elite N			
					-, ()	
Supple	•	ences ((2021)			
Supple Master	's degree (1 major) Biosci		(2021)			
Supple Master exchan	's degree (1 major) Biosci nge program Biosciences ((2022)				
Supple Master exchan Master	's degree (1 major) Biosci	(2022) ences ((2023)			
Supple Master exchan Master Master	's degree (1 major) Biosci nge program Biosciences 's degree (1 major) Biosci	(2022) ences ((2023) (2024)	generated 19-Apr-2025 • exa		page 225 / 265



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 226 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Lahorat	e title			Abbreviation	
Labora	tory Course 3			07-MSL3-152-m01	
Module	e coordinator		Module offered by	<u> </u>	
Coordir	nator BioCareers		Faculty of Biology		
ECTS	Method of grading	Only after succ. con			
15	(not) successfully completed				
Duratio	on Module level	Other prerequisites			
1 seme	ster graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts				
Practica	al course, summer school or w	orkshop on specific to	pics in biology (dura	tion: 6-9 weeks).	
	ed learning outcomes		,		
	ency in specific methods and l	ab techniques from sel	ected fields of biolo	gy. Ability to apply th	iese me-
	and techniques later on in a re				
Course	s (type, number of weekly con	tact hours, language –	- if other than Germa	n)	
P (30)	,				
	e taught in: German and/or En	glish			
Method	d of assessment (type, scope,	language — if other tha	an German, examina	tion offered — if not	every seme-
	formation on whether module				
	en examination (30 to 60 min	utes, including multiple	e choice questions) o	or	
	15 to 30 pages) or		、 、		
	examination of one candidate examination in groups of up to				
	entation (20 to 45 minutes)	5 3 candidates (30 to 6	o minutes) or		
	ige of assessment: German an	d/or English			
	ion of places				
Additio	onal information				
Auuitio					
147 11	•				
Worklo	ad				
450 h					
450 h	ad ng cycle				
450 h					
450 h Teachir 		gulations for teaching-o	degree programmes)		
450 h Teachir 	ng cycle	gulations for teaching-o	degree programmes)		
450 h Teachir Referre 	ng cycle	gulations for teaching-o	degree programmes)		
450 h Teachir Referre Module	ng cycle ed to in LPO I (examination reg		degree programmes)		
450 h Teachir Referre Module Master	ng cycle ed to in LPO I (examination reg e appears in	015)	degree programmes)		
450 h Teachir Referre Module Master' Master	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20	015) S (2016)		ork Bavaria (ENB) (20	 D16)
450 h Teachir Referre Module Master' Master' Supple	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher	915) s (2016) n MINT Teacher Educat Education PLUS, Elite I	ion PLUS, Elite Netwo		D16)
450 h Teachir Referre Master' Master' Master' Supple Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Bioscience	915) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017)	ion PLUS, Elite Netwo		 D16)
450 h Teachir Referre Master' Master' Master' Supple Master' Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience 's degree (1 major) Bioscience	o15) s (2016) n MINT Teacher Educati Education PLUS, Elite I s (2017) s (2018)	ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016)	
450 h Teachir Referre Master' Master' Master' Master' Master' Master' Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience 's degree (1 major) Bioscience 's teaching degree Gymnasiun	915) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
450 h Teachir Referre Master' Master' Master' Supple Master' Master' Supple	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher	915) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
450 h Teachir Referre Master' Master' Master' Master' Master' Master' Supple Master' Supple Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience	915) s (2016) n MINT Teacher Educat Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educat Education PLUS, Elite I s (2021)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
450 h Teachir Referre Module Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master' Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Bioscience 's teaching degree Gymnasium mentary course MINT Teacher 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Bioscience ge program Biosciences (2021)	915) s (2016) n MINT Teacher Educati Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educati Education PLUS, Elite I s (2021) 2)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
450 h Teachir Referre Master' Master' Master' Master' Master' Supple Master' Supple Master' Supple Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience 's teaching degree Gymnasiun mentary course MINT Teacher 's teaching degree Gymnasiun mentary course MINT Teacher 's degree (1 major) Bioscience ge program Biosciences (2022 's degree (1 major) Bioscience	915) s (2016) n MINT Teacher Educati Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educati Education PLUS, Elite I s (2021) 2) s (2023)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	
450 h Teachir Referre Master' Master' Master' Master' Master' Supple Master' Supple Master' Master' Master' Master' Master'	ng cycle ed to in LPO I (examination reg e appears in 's degree (1 major) Biology (20 's degree (1 major) Bioscience 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Bioscience 's teaching degree Gymnasium mentary course MINT Teacher 's teaching degree Gymnasium mentary course MINT Teacher 's degree (1 major) Bioscience ge program Biosciences (2021)	915) s (2016) n MINT Teacher Educati Education PLUS, Elite I s (2017) s (2018) n MINT Teacher Educati Education PLUS, Elite I s (2021) 2) s (2023)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20	



Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 228 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

	e title				Abbreviation
Laboratory Research Training F1					07-MSLRTF1-152-m01
Module	Nodule coordinator			Module offered by	1
		me coordinator B	iologie (Biology)	Faculty of Biology	
ECTS	r -	nod of grading Only after succ. compl. of module(s)			
10		cal grade			
Duratio		Nodule level	Other prerequisit	·es	
1 seme		graduate		th course advisory se	rvice in advance.
Conten		,			
project apply d cument	t and lear defined e t their ex	n how to present xperimental proce perimental work i	their data. They learn to	discuss their data in	small, well-defined scientific lal a seminar. The students learn to ss scientific questions and to do
Intende	ed learni	ng outcomes			
fer theo	oretical k		periments. Students hav		niques and learned how to trans the analysis of raw data, their in
Course	s (type, r	number of weekly	contact hours, language	e — if other than Germ	an)
P (14) + Module		in: German and/o	r English		
			pe, language — if other	than German, examin	ation offered — if not every sem
a) writt b) log (en exam (15 to 30	ination (30 to 60 r pages) or	lule can be chosen to ea ninutes, including multi late each (ao to 60 min)	arn a bonus) iple choice questions)	
a) writt b) log (c) oral d) oral e) prese	en exam (15 to 30) examina examina entation	ination (30 to 60 r pages) or tion of one candid	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writt b) log (c) oral d) oral e) press Langua	en exam (15 to 30) examina examina entation	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writt b) log (c) oral d) oral e) press Langua	en exam (15 to 30 examina examina entation age of ass	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writt b) log (c) oral d d) oral e) press Langua Allocat	en exam (15 to 30 examina examina entation age of ass	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writt b) log (c) oral d d) oral e) press Langua Allocat	en exam (15 to 30 examina examina entation age of ass tion of pla	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio	en exam (15 to 30 examina examina entation age of ass tion of pla	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo	en exam (15 to 30 examina examina entation age of ass tion of pla onal infor	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writtt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h	en exam (15 to 30 examina examina entation age of as: tion of pla onal infor	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writtt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h	en exam (15 to 30 examina examina entation age of ass tion of pla onal infor	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or	
a) writtt b) log (c) oral d d) oral e) preso Langua Allocat Additio Worklo 300 h Teachin	en exam (15 to 30 examina examina entation age of ass tion of pla onal infor	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation	minutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writtt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h Teachin	en exam (15 to 30 examina examina entation age of ass tion of pla onal infor	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to)	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio 300 h Teachin Referre 	en exam (15 to 30 examina eentation age of ass tion of pla bonal infor bad	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: German aces mation	minutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio 300 h Teachin Referre Module	en exam (15 to 30 examina entation age of ass tion of pla onal infor oad ng cycle ed to in L	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h Teachin Referre Module	en exam (15 to 30 examina entation age of ass tion of pla onal infor oad ng cycle ed to in L	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation POI (examination s in e (1 major) Biology	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e) press Langua Allocat Additio Worklo 300 h Teachin Referre Module Master Master	en exam (15 to 30 examina examina entation age of ass tion of pla onal infor onal infor oad ed to in L e appears	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation PO I (examination s in e (1 major) Biology e (1 major) Bioscie	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English n regulations for teachin (2015) nces (2016)	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e press Langua Allocat Additio 300 h Teachin Referre Master Master Master	en exam (15 to 30 examina entation age of ass tion of pla onal infor oad ng cycle ed to in L e appears d's degree	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation POI (examination s in e (1 major) Biology e (1 major) Bioscie e (1 major) Bioscie	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English n regulations for teachin r (2015) nces (2016) nces (2017)	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e) press Langua Allocat Modultio 300 h Teachin Referre Master Master Master Master	en exam (15 to 30 examina entation age of ass tion of pla onal infor oad ng cycle ed to in L e appears d's degree d's degree	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: German aces mation POI (examination s in e (1 major) Biology e (1 major) Bioscie e (1 major) Bioscie e (1 major) Bioscie	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English n regulations for teachin (2015) nces (2016) nces (2017) nces (2018)	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10
a) writt b) log (c) oral d d) oral e) press Langua Allocat Modulio 300 h Teachin Referre Master Master Master Master Master	en exam (15 to 30 examina examina entation age of ass tion of pla onal infor oad ng cycle ed to in L e appears d's degree d's degree	ination (30 to 60 r pages) or tion of one candid tion in groups of u (20 to 45 minutes sessment: Germar aces mation POI (examination s in e (1 major) Biology e (1 major) Bioscie e (1 major) Bioscie	ninutes, including multi late each (30 to 60 minu up to 3 candidates (30 to) n and/or English 	arn a bonus) iple choice questions) utes) or o 60 minutes) or	10 10

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	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	title				Abbreviation
Molecular Parasitology					07-MSPAR-171-m01
Module	Module coordinator			Module offered by	
		Chair of Cell Biology and	Developmental Rio-	Faculty of Biology	
logy		than of cell blotogy and			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
The lec	ture <i>M</i> a	olecular Parasitology dise	cusses molecular and	genetic aspects of	parasitic diseases in humans and
		ial emphasis is on negle			
Intende	ed learı	ning outcomes			
		ossess a knowledge of th er context of molecular c		les underlying paras	itology and are able to put this
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)
V (1) + 9			,		
	• •	t in: German and/or Engl	ish		
a) writte c) oral e d) oral Studen	en exar examin examin ts will l	on on whether module contraction (30 to 60 minut ation of one candidate e nation in groups of up to be informed about the m ssessment: German and	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) (s) or o minutes)	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachir	ng cvcl	6			
	5 7 2				
Referre	d to in	LPOI (examination regu	lations for teaching.	legree programmes)	
Referre					
Module	-	arc in			
		ee (1 major) FOKUS Life S	cionece (2015)		
	-	ee (1 major) FOKUS LIFE S ee (1 major) Biosciences			
	-				
	Master's degree (1 major) Biosciences (2018) Master's degree (1 major) Biosciences (2021)				
	-	gram Biosciences (2022)	(2021)		
		ee (1 major) Biosciences	(2022)		
	-	ee (1 major) Biosciences	-		
musici	Jucgh		(2024)		

Module title			Abbreviation			
Molecu	Molecular Parasitology F1				07-MSPARF1-171-m01	
Module	Module coordinator			Module offered by		
holder logy	holder of the Chair of Cell Biology and Developmental Bi logy			Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10 numerical grade						
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
parasit perime ses.	ology. nts of t	t introduces participants heir own. Participants us	to a variety of parasi	ites and encourages	ods and concepts in molecular them to design and perform ex- se important biomedical proces-	
	-	ning outcomes				
propria	te met				ular parasitology and to apply ap- ific questions, adhering to the ru-	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	in)	
P (14) + Module		t in: German and/or Engl	ish			
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
b) log (c) oral d) oral e) pres	15 to 30 examin examir entatio	nination (30 to 60 minut p pages) or ation of one candidate e lation in groups of up to 3 n (20 to 45 minutes) ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6	s) or	or	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-	degree programmes)		
				<u> </u>		
Module	Module appears in					
		ee (1 major) FOKUS Life S	ciences (2015)			
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences	-			
Master	's degr	ee (1 major) Biosciences	(2024)			

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 231 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title			Abbreviation			
Molecular Parasitology F2					07-MSPARF2-171-m01	
Module	Module coordinator			Module offered by		
holder logy	of the (Chair of Cell Biology and	Developmental Bio-	Faculty of Biology		
ECTS Method of grading Only after succ. compl. of module(s)						
15		successfully completed		• • • • •		
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
					signed experiments in the con-	
					iques applied are evaluated on	
		search project are preser			all experiments as well as the im-	
-		ning outcomes				
				i	- field of molecular perceitals m	
and to	modify		itcome. They are able	e to independently a	e field of molecular parasitology pproach current scientific topics s of scientific practice.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
P (29) +						
		t in: German and/or Engl				
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
		mination (30 to 60 minut	es, including multiple	e choice questions) o	or	
		o pages) or	ach (ao ta Cominuto			
		ation of one candidate e ation in groups of up to g	-	-		
		n (20 to 45 minutes)		o minuces) or		
		ssessment: German and,	or English			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
450 h						
Teachir	ıg cycl	е				
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
Module	e appea	ars in				
Master'	's degr	ee (1 major) Biosciences	(2017)			
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences				
	-	ee (1 major) Biosciences	-			
Master	Master's degree (1 major) Biosciences (2024)					

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 232 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Somin-	title			_	Abbreviation
Seminar Tropical Biology					07-MSTROPS-171-m01
Module coordinator				Module offered by	ļ
		Chair of Animal Ecology a	Ind Tropical Biology	Faculty of Biology	
		od of grading	Only after succ. con		
5		successfully completed			
Duratio		Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
cus is o	n the g rse als	global significance of trop	pical systems (biodiv	ersity, ecosystem go	opical communities. A special fo oods and ecosystem services). is and compares them to the ter
Intende	d lear	ning outcomes			
the sign man int able to	nificano ervent investi	ce tropical habitats have ions into tropical system	for our ecosystem. Th s as well as associate ss up-to-date publica	ney will be able to e ed conservation-rela ations in different th	in the biosphere and to explain valuate the consequences of hu ated issues. Students will also b ematic areas of tropical biology.
S (2)	, (type	, number of weekly colle	act nours, language –		
• •	taugh	t in: German and/or Engl	ish		
		-		an German, examina	ation offered — if not every seme
		on on whether module c			
		mination (30 to 60 minut o pages) or	es, including multiple	e choice questions)	01
c) oral e d) oral e e) prese	examir entatio	ation of one candidate e hation in groups of up to n (20 to 45 minutes)	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languag	examir entatio ge of a	ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese	examir entatio ge of a	ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languas Allocati	examir entatio ge of a ion of p	ation of one candidate e hation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languas Allocati	examir entatio ge of a ion of p	ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languas Allocati Addition	examir entatio ge of a on of p nal inf	ation of one candidate e hation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languas Allocati Addition Workloa	examir entatio ge of a on of p nal inf	ation of one candidate e hation in groups of up to n (20 to 45 minutes) ssessment: German and blaces	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languas Allocati Addition Workloa 150 h	examir entatio ge of a fon of p nal inf ad	ation of one candidate e hation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languas Allocati Addition Workloa	examir entatio ge of a fon of p nal inf ad	ation of one candidate e hation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation	3 candidates (30 to 6	-	
c) oral e d) oral e e) prese Languag Allocati Addition Workloa 150 h Teachin 	examir entatio ge of a fon of p nal inf ad	ation of one candidate entition in groups of up to n (20 to 45 minutes) ssessment: German and places	3 candidates (30 to 6 /or English	o minutes) or	
c) oral e d) oral e e) prese Languag Allocati Addition Workloa 150 h Teachin 	examir entatio ge of a fon of p nal inf ad	ation of one candidate e hation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation	3 candidates (30 to 6 /or English	o minutes) or)
c) oral e d) oral e e) prese Languag Allocati Addition Workloa 150 h Teachin Referree 	examir entatio ge of a fon of p nal inf ad ag cycl d to in	ation of one candidate enation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation e LPOI (examination regu	3 candidates (30 to 6 /or English	o minutes) or)
c) oral e d) oral e e) prese Languas Allocati Addition Workloa 150 h Teachin Referree Module	examir entatio ge of a fon of p nal inf ad g cycl d to in appea	ation of one candidate enation in groups of up to n (20 to 45 minutes) ssessment: German and olaces ormation	3 candidates (30 to 6 /or English lations for teaching-o	o minutes) or)
c) oral e d) oral e e) prese Languag Allocati Addition Workloa 150 h Teachin Referred Module	examir entatio ge of a fon of p nal inf ad ag cycl d to in appea s degre	ation of one candidate enation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation e LPO I (examination regunst trs in ee (1 major) Biosciences	3 candidates (30 to 6 /or English lations for teaching-0 (2017)	o minutes) or)
c) oral e d) oral e e) prese Languag Allocati Addition Workloa 150 h Teachin Referred Module Master'	examir entatio ge of a fon of p nal inf ad ad d to in appea s degro s degro	ation of one candidate enation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation e LPO I (examination regunation regunation ee (1 major) Biosciences ee (1 major) Biosciences	3 candidates (30 to 6 /or English lations for teaching-0 (2017) (2018)	o minutes) or)
c) oral e d) oral e e) prese Languag Allocati Addition Workloa 150 h Teachin Referree Module Master' Master'	examir entatio ge of a fon of p nal inf ad d to in appea s degre s degre s degre	ation of one candidate enation in groups of up to n (20 to 45 minutes) ssessment: German and places ormation e LPO I (examination regunst trs in ee (1 major) Biosciences	3 candidates (30 to 6 /or English 	o minutes) or	

Module	e title				Abbreviation
Oral Ex	aminat	tion Biosciences			07-MT-K-162-m01
Module	Module coordinator			Module offered by	
chairpe	chairperson of examination committee Biologie (Biology)			Faculty of Biology	
ECTS	1	od of grading	Only after succ. con		
5	nume	rical grade	07-MT-1		
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	Its				
		thesis content through c es of questions pertaining		-	exceed 45 minutes (30 minutes .).
Intende	ed lear	ning outcomes			
		able to discuss and defer d topics.	id their work in the so	cientific community,	drawing on their knowledge of si
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	in)
K (o) Module	e taugh	t in: German and/or Engl	ish		
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
compri	sing: ta	um (approx. 45 minutes) alk on thesis (30 minutes) ssessment: German and		fence of thesis (15 m	iinutes); defence usually public
Allocat	ion of _l	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
Module	e appea	ars in			
Master Master Master	's degr 's degr 's degr	ee (1 major) Biosciences ee (1 major) Biosciences ee (1 major) Biosciences ee (1 major) Biosciences ee (1 major) Biosciences	(2017) (2018) (2021)		
Master	's degr	ee (1 major) Biosciences	(2024)		

Module title				Abbreviation		
Animal Ecolo	gy and Tropical Biology	2 B		07-MTÖ2B-152-m01	1	
Module coor	dinator		Module offered by			
holder of the	of the Chair of Animal Ecology and Tropical Biology Faculty of Biology					
	od of grading	Only after succ. con	npl. of module(s)			
5 (not)	successfully completed					
Duration	Module level	Other prerequisites				
1 semester graduate						
Contents						
focus is on th	provides the fundamen ne global significance of s of these highly diverse	tropical systems (ecos	, system goods and ec	•		
Intended lea	rning outcomes					
tropical ecolor the solution	will acquire deep know ogy. They will be qualifie of current environmenta e, number of weekly cor	ed to interpret scientific l risks.	work and apply the	knowledge they hav		
V (2) Module taug	·					
	s essment (type, scope, tion on whether module			tion offered — if not	every seme-	
	be informed about the assessment: German ar places		ope of the assessme	nt prior to the cours	e.	
Additional in	formation					
Workload						
150 h						
Teaching cyc	le					
Referred to i	LPOI (examination re	gulations for teaching-	degree programmes)			
Module appe	ars in					
	ree (1 major) Biology (20	015)				
-	ree (1 major) FOKUS Life	-				
-	ree (1 major) Bioscience					
Master's tead	ching degree Gymnasiu	n MINT Teacher Educat	ion PLUS, Elite Netw	ork Bavaria (ENB) (2	016)	
	ary course MINT Teacher		Network Bavaria (EN	B) (2016)		
	Master's degree (1 major) Biosciences (2017)					
-	ree (1 major) Bioscience					
	ching degree Gymnasiu				020)	
	ary course MINT Teacher ree (1 major) Bioscience		Network Bavaria (EN	B) (2020)		
Master's with 1 maj	or Biosciences (2017)	-	er (120 ECTS) Biowissenscha	-	page 235 / 265	

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exchange program Biosciences (2022) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) FOKUS Life Sciences (2025)

Module	e title			Abbreviation	
Animal Ecology and Tropical Biology B				07-MTÖB-152-m01	
Module	e coordinator		Module offered by		
holder	older of the Chair of Animal Ecology and Tropical Biology Faculty of Biology				
ECTS	Method of grading	Only after succ. cor	npl. of module(s)		
5	(not) successfully completed				
Duratio	on Module level	Other prerequisites			
1 seme	ster graduate				
Contents					
current	odule consists of a lecture and issues in animal ecology. Foo nd food nets, evolutionary eco	us will be on biodivers	ity and ecosystem fu	Inctions, multi-troph	ic interac-
Intende	ed learning outcomes				
of anim solutio	idents will acquire an advance nal ecology. They will be able n of current environmental ris	to interpret scientific pr ks.	ublications and appl	y the acquired know	
	s (type, number of weekly cor	itact hours, language –	- If other than Germa	in)	
V (2)		aliah			
	e taught in: German and/or En	-			
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-
Allocat	ge of assessment: German ar ion of places mal information	nd/or English			
Additio	nal information				
Worklo	ad				
150 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
Madul	annoars in				
	e appears in				
	's degree (1 major) Biology (20	-			
	's degree (1 major) Bioscience 's teaching degree Gymnasiur		ion PLUS Elito Notwo	ork Bavaria (ENR) (a	016)
	mentary course MINT Teacher				010)
	's degree (1 major) Bioscience				
	's degree (1 major) Bioscience				
	's teaching degree Gymnasiur		ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)
	mentary course MINT Teacher				
	's degree (1 major) Bioscience			-	
	ge program Biosciences (202				
M + - •	the material of the start of th				
master's W	ith 1 major Biosciences (2017)		er (120 ECTS) Biowissenschat	-	page 237 / 265

Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

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	ta record Master (120 ECTS) Biowissenschaften - 2017	

Tropica	le title			Abbreviation	
-	al Ecology			07-MTROP-152-mot	L
Modul	le coordinator		Module offered by		
holder	r of the Chair of Animal Ecolo	gy and Tropical Biology	Faculty of Biology		
ECTS	Method of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
5	numerical grade				
Duratio		Other prerequisites			
1 seme			•		
Conter		I			
Studer ta anal	projects on ecological or nat nts should become familiar v lysis through to data present presented and discussed.	vith different project stag	ges from experiment of	design, implementa	tion and da-
Intend	led learning outcomes				
and na tative o analys		search in the tropics. The r biotic interactions and	ey will learn field eco will acquire statistica	logical methods for Il knowledge in the	the quanti-
	es (type, number of weekly co	ontact nours, language –	- II other than Germa	11)	
Ü (3) Maduli	a tought in Common and I	-naliah			
	le taught in: German and/or I				
	od of assessment (type, scop nformation on whether modu			tion offered — if not	every seme-
a) writt	ten examination (30 to 60 m	inutes, including multipl	e choice questions) o	or	
	(15 to 30 pages) or				
	examination of one candida	-	-		
	l examination in groups of up	to 3 candidates (30 to 6	o minutes) or		
	sentation (20 to 45 minutes) age of assessment: German	and /or English			
	tion of places				
Alloca					
	onal information				
	onal information				
 Additic					
 Additic Worklo					
 Additic Worklc 150 h	oad				
 Additic Worklc 150 h					
 Additio Worklo 150 h Teachi 	oad ing cycle	regulations for teaching-	degree programmes)		
 Additio Worklo 150 h Teachi 	oad	regulations for teaching-	degree programmes)		
 Additio 150 h Teachi Referre	oad ing cycle	regulations for teaching-	degree programmes)		
 Additio 150 h Teachi Referre Module	oad ing cycle ed to in LPO I (examination i		degree programmes)		
 Worklo 150 h Teachi Referre Module	oad ing cycle ed to in LPO I (examination) le appears in	2015)	degree programmes)		
 Additio Worklo 150 h Teachi Referre Modulo Master Master	oad ing cycle ed to in LPO I (examination i le appears in r's degree (1 major) Biology (2015) ces (2016)		ork Bavaria (ENB) (2	016)
 Additio 150 h Teachi Referro Modulo Master Master Master	oad ing cycle ed to in LPO I (examination i le appears in r's degree (1 major) Biology (r's degree (1 major) Bioscien	2015) ces (2016) um MINT Teacher Educat	ion PLUS, Elite Netwo		016)
 Additic 150 h Teachi Referre Module Master Master Supple	oad ing cycle ed to in LPO I (examination i le appears in r's degree (1 major) Biology (r's degree (1 major) Bioscien r's teaching degree Gymnasi	2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite	ion PLUS, Elite Netwo		016)
 Additio 150 h Teachi Referre Master Master Master Supple Master Master	oad ing cycle ed to in LPO I (examination i le appears in r's degree (1 major) Biology (r's degree (1 major) Bioscien r's teaching degree Gymnasi ementary course MINT Teach r's degree (1 major) Bioscien r's degree (1 major) Bioscien	2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite ces (2017) ces (2018)	ion PLUS, Elite Netwo Network Bavaria (ENI	3) (2016)	
 Additic 150 h Teachi Referre Module Master Master Master Supple Master Master Master	oad ing cycle ed to in LPO I (examination not be appears in r's degree (1 major) Biology (r's degree (1 major) Bioscien r's teaching degree Gymnasi ementary course MINT Teach r's degree (1 major) Bioscien r's degree (1 major) Bioscien r's teaching degree Gymnasi	2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite ces (2017) ces (2018) um MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (ENI ion PLUS, Elite Netwo	3) (2016) ork Bavaria (ENB) (2	
 Additic 150 h Teachi Referre Master	oad ing cycle ed to in LPO I (examination i le appears in r's degree (1 major) Biology (r's degree (1 major) Bioscien r's teaching degree Gymnasi ementary course MINT Teach r's degree (1 major) Bioscien r's degree (1 major) Bioscien	2015) ces (2016) um MINT Teacher Educat er Education PLUS, Elite ces (2017) ces (2018) um MINT Teacher Educat er Education PLUS, Elite	ion PLUS, Elite Netwo Network Bavaria (ENI ion PLUS, Elite Netwo	3) (2016) ork Bavaria (ENB) (2 3) (2020)	

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module	e title			-	Abbreviation
Master	Thesis	Biosciences			07-MT-T-162-m01
Madul				Madula offered by	L
	e coord			Module offered by	
	chairperson of examination committee Biologie (Biolog			Faculty of Biology	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
25		rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	Its				
ments and ap of good	to solve ply adv d scient	e problems or summarise ranced and novel techniq	e and interpret existir jues in the context of are summarised in a	ng data. Students ha a given research pro	They plan and perform experi- ve to develop a research plan oject, adhering to the principles efended in a colloquium. The pro
Intend	ed lear	ning outcomes			
me. The perime	ey are a nts, ad	able to independently ap	proach current scient of scientific practice.	tific topics and to pe Students are able to	ify them according to the outco- rform, interpret and document ex o discuss and defend their work pics.
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
		signed to module t in: German and/or Engl	• •		
ster, in written	formati thesis	on on whether module ca	an be chosen to earn		ition offered — if not every seme-
Allocat		ssessment: German and,	/ of English		
		Jaces			
Additio	onal inf	ormation			
Time to	o comp	ete: 6 months.			
Worklo	· · ·		-		
750 h			-		
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
Module					
	-	ee (1 major) Biosciences			
		ee (1 major) Biosciences	· //		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences	-		
	le deer	ee (1 major) Biosciences			

Module	title				Abbreviation
Entrepre	eneuri	al Thinking in the Bioscie	ences		07-MUDB-152-m01
Module	coord	inator		Module offered by	
		oCareers od of grading	Only after succ. com	Faculty of Biology	
		successfully completed			
Duratio		Module level	Other prerequisites		
1 semes	i	graduate			
Content		3			
with the perty pro	proce otectio	ss of founding start-up c on are discussed.			s. These workshops may also deal ectors. Topics on intellectual pro-
		ning outcomes			
		ed an insight into the bu and development.	siness plans and mar	ket of companies. T	hey gained an insight into indu-
Courses	(type	number of weekly conta	ct hours, language —	if other than Germa	ın)
S (1)					
Module	taugh	t in: German and/or Engl	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
d) oral e e) prese Languag	xamin ntatio ge of a	ation of one candidate e ation in groups of up to n (20 to 45 minutes) ssessment: German and,	3 candidates (30 to 6		
Allocati	on of p	olaces			
Addition	nal info	ormation			
Workloa	ıd				
150 h					
Teachin	g cycl	9	<u>.</u>		
Referred	l to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	appea	rs in			
Master's	s degre	ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences ee (1 major) Biosciences			
musters	Jucgi		(2024)		

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Module	e title				Abbreviation
Specia	l Subje	ct Studies outside Natura	al Sciences 1		07-MV1-152-m01
Module	e coord	inator		Module offered by	l
Coordin	nator B	ioCareers		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
2	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
or othe science	r institu es. Asse ordina	utions, in which students essment ungraded, pass tors. Possible subjects ar	will acquire addition required (2 ECTS created addition addition additional additionadditional additional additional additional addi	al skills in areas oth lits); decision on cre	y contact hour), offered by JMU ner than biology or the natural edit transfer to be made by mo- ges, social studies, psychology,
Intende	ed learı	ning outcomes			
Specifi	c skills	and knowledge on a spe	cific subject in an are	ea other than biology	y or the natural sciences.
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	an)
		t in: German and/or Engl night also be offered in V			
		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-
		mpletion as certified by t ssessment: German and,			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	9			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	irs in			
		ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences	-		
master	s uegr	ee (1 major) Biosciences	(2024)		

Module title					Abbreviation
Special	Special Subject Studies outside Natural Sciences 2				07-MV2-152-m01
Module	coord	inator		Module offered by	<u> </u>
Coordinator BioCareers		Faculty of Biology			
ECTS		od of grading	Only after succ. com	· · · · · ·	
3	1	rical grade		p	
Duratio		Module level	Other prerequisites		
1 seme		graduate	Please consult with	course advisorv serv	vice in advance.
Conten		0		,	
or othe science	r institu es. Asso ordina	utions, in which students essment ungraded, pass tors. Possible subjects a	will acquire addition required (3 ECTS crea	al skills in areas oth lits); decision on cre	kly contact hours), offered by JMl ner than biology or the natural edit transfer to be made by mo- ges, social studies, psychology,
Intende	ed lear	ning outcomes			
Specifi	c skills	and knowledge on a spe	ecific subject in an are	a other than biology	y or the natural sciences.
Course	s (type	, number of weekly conta	act hours, language —	if other than Germa	an)
		t in: German and/or Engl night also be offered in V			
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-
c) oral (d) oral e) pres	examin examir entatio	o pages) or ation of one candidate e nation in groups of up to n (20 to 45 minutes) ssessment: German and	3 candidates (30 to 6		
Allocat					
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	llations for teaching-c	legree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Biology (201	5)		
Master's degree (1 major) Biosciences (2016)					
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
NA - at a w	'c doar	ee (1 major) Biosciences			

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Module					Abbreviation
Specia	l Subje	ct Studies outside Natura	al Sciences 2B		07-MV2B-152-m01
Module	e coord	inator		Module offered by	<u> </u>
Coordi	nator B	ioCareers		Faculty of Biology	
ECTS	1	od of grading	Only after succ. com	, -,	
3		successfully completed			
Duratio		Module level	Other prerequisites		
1 seme		graduate	Please consult with	course advisorv ser	vice in advance.
Conten		0		,,,,,,,,,,,,,,,,,	
or othe science	r instit es. Ass ordina	utions, in which students essment ungraded, pass tors. Possible subjects a	will acquire addition required (3 ECTS crea	al skills in areas oth lits); decision on cre	kly contact hours), offered by JM ner than biology or the natural edit transfer to be made by mo- ges, social studies, psychology,
Intend	ed lear	ning outcomes			
Specifi	c skills	and knowledge on a spe	cific subject in an are	a other than biolog	y or the natural sciences.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	an)
		t in: German and/or Engl night also be offered in V			
		s essment (type, scope, la ion on whether module ca			ation offered — if not every seme-
c) oral d) oral e) pres	examin examir entatio	o pages) or lation of one candidate e lation in groups of up to g n (20 to 45 minutes) lssessment: German and	3 candidates (30 to 6		
Allocat					
 Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi		e			
	is cyci				
Referre	ed to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences	-		
Master	's degr	ee (1 major) Biosciences			
	0	ee (I major) biosciences	(2017)		
Master	-	ee (1 major) Biosciences			
Master Master	's degr		(2018)		
Master Master Master	's degr 's degr	ee (1 major) Biosciences	(2018) (2021)		

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 245 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	e title				Abbreviation
Specia	l Subje	ct Studies outside Natura	al Sciences 3		07-MV3-152-m01
Module	e coord	inator		Module offered by	·
Coordin	nator B	ioCareers		Faculty of Biology	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate	Please consult with	course advisory serv	/ice in advance.
Conten	ts				
or othe science	r institu es. Asso ordina	utions, in which students essment ungraded, pass tors. Possible subjects ar	will acquire addition required (4 ECTS crea	al skills in areas oth lits); decision on cre	y contact hours), offered by JMU her than biology or the natural edit transfer to be made by mo- ges, social studies, psychology,
	· · · · ·	ning outcomes			
		and knowledge on a spe	cific subject in an are	a other than biology	y or the natural sciences
		, number of weekly conta			
S (2)		t in: German and/or Engl			
ster, in Succes	formati sful co	sessment (type, scope, la on on whether module ca mpletion as certified by t ssessment: German and,	an be chosen to earn he lecturer		ition offered — if not every seme-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
120 h					
Teachi	ng cycl	e			
	· · · ·				
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	urs in			
		ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	•	ee (1 major) Biosciences ee (1 major) Biosciences			
master	s uego	ee (1 major) biosciences	(2024)		

Modul					Abbreviation	
Specia	al Subje	ct Studies outside Nat	ural Sciences 4		07-MV4-152-m01	
Modul	e coord	inator		Module offered by	l	
Coordi	inator Bi	oCareers		Faculty of Biology		
ECTS	-	d of grading	Only after succ. con			
5	numer	rical grade		•		
Duratio	on	Module level	Other prerequisites	;		
1 seme	ester	graduate	Please consult with	course advisory serv	/ice in advance.	
Conter	nts					
or othe science dule co	er institu es. Asse	utions, in which studer essment ungraded, pas tors. Possible subjects	orkshop, retreat or prac ots will acquire addition ss required (5 ECTS crea are philosophy, pedag	nal skills in areas oth dits); decision on cre	er than biology or th dit transfer to be ma	ne natural ade by mo-
Intend	led learr	ning outcomes				
Specifi	ic skills	and knowledge on a s	pecific subject in an ar	ea other than biology	or the natural scier	ices.
			ntact hours, language –			
	-	t in: German and/or En night also be offered ir	-			
			language — if other th can be chosen to earn		tion offered — if not	every seme-
e) pres Langua	sentatio	n (20 to 45 minutes) ssessment: German ar	o 3 candidates (30 to 6 nd/or English	o minutes) or		
Additio	onal info	ormation				
Worklo	oad					
150 h						
Teachi	ing cycl	9				
Referre	ed to in	LPOI (examination re	gulations for teaching-	degree programmes)		
Modul	e appea	rs in				
		ee (1 major) Biology (20	015)			
	-	ee (1 major) Bioscience				
Supple Master	ementar r's degre					016)
Master	r's teach	ning degree Gymnasiur	n MINT Teacher Educat Education PLUS, Elite			020)
Master's w	vith 1 major	Biosciences (2017)	_	er (120 ECTS) Biowissenscha	-	page 247 / 265

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module title Abbr							
Special	Subject Studies outside Natu	ral Sciences 4B		07-MV4B-152-m01			
Module	coordinator		Module offered by				
Coordin	ator BioCareers		Faculty of Biology				
	Method of grading	Only after succ. compl. of module(s)					
	(not) successfully completed		•				
Duration	n Module level	Other prerequisites					
1 semes	ster graduate	Please consult with	course advisory serv	rice in advance.			
Content	Contents						
Regular specific lecture, seminar, workshop, retreat or practical course (3 weekly contact hours), offered by JMU or other institutions, in which students will acquire additional skills in areas other than biology or the natural sciences. Assessment ungraded, pass required (5 ECTS credits); decision on credit transfer to be made by mo- dule coordinators. Possible subjects are philosophy, pedagogy, history, languages, social studies, psychology, economics, and law.							
Intende	d learning outcomes						
Specific	skills and knowledge on a sp	ecific subject in an are	a other than biology	or the natural scier	ices.		
Courses	(type, number of weekly con	tact hours, language —	if other than Germa	n)			
	taught in: German and/or Eng type: might also be offered in						
	of assessment (type, scope, ormation on whether module			tion offered — if not	every seme-		
e) prese Languag	examination in groups of up to entation (20 to 45 minutes) ge of assessment: German an on of places		o minutes) or				
		_					
Addition	nal information						
Workloa	10						
150 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
	 Module appears in						
 Module	appears in						
Master's Master's	s degree (1 major) Biology (20 s degree (1 major) Bioscience	s (2016)					
Master's Master's Master's Supplen Master's Master's	s degree (1 major) Biology (20	s (2016) n MINT Teacher Educati Education PLUS, Elite N s (2017) s (2018) n MINT Teacher Educati	Network Bavaria (EN on PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (20			

Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Module	e title			Abbreviation			
Specia	l Subje	ct Studies Biology and N	atural Sciences 1		07-MVMINT1-152-m01		
Module coordinator				Module offered by	<u>I</u>		
Coordinator BioCareers				Faculty of Biology			
ECTS	Meth	od of grading	Only after succ. con				
2	(not)	successfully completed					
Duratio	on	Module level	Other prerequisites	uisites			
1 seme	ster	ster graduate Please consult with course advisory service in advance.					
Conten	Its						
Regula ded, pa			weekly contact hour) in biological or nat	tural sciences; assessment ungra		
Intend	ed lear	ning outcomes					
Specifi	c skills	and knowledge on an int	terdisciplinary subject	t in the biological o	r natural sciences.		
		, number of weekly conta					
Course	type: r	t in: German and/or Engl night also be offered in V sessment (type, scope, la	, Ü, P, R or E format	an German, examina	ation offered — if not every seme-		
		ion on whether module ca			ation oncrea in not every serie		
		mpletion as certified by t ssessment: German and,					
Allocat	ion of _l	olaces					
Additio	onal inf	ormation					
Worklo	ad						
60 h							
Teachi	ng cycl	e					
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)			
Module	e appea	ars in					
Master	's degr	ee (1 major) Biology (201	5)				
	Master's degree (1 major) Biosciences (2016)						
	Master's degree (1 major) Biosciences (2017)						
Master's degree (1 major) Biosciences (2018)							
	Master's degree (1 major) Biosciences (2021)						
	Master's degree (1 major) Biosciences (2023)						
Master	Aaster's degree (1 major) Biosciences (2024)						

Module	Module title Abbreviation						
Special Subject Studies Biology and Natural Sciences 2 o7-MVMINT2-152-mo1							
Module coordinator				Module offered by			
Coordi	nator B	ioCareers		Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
3	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
			Please consult with course advisory service in advance.				
Conten	ts						
-	•	ic lecture, seminar, work es with a graded assessr		ical course (1 weekl	y contact hour) in biological or		
Intend	ed lear	ning outcomes					
Specifi	c skills	and knowledge on an int	erdisciplinary subjec	t in the biological o	r natural sciences.		
		, number of weekly conta	· _ · _ ·				
		t in: German and/or Engl night also be offered in V					
		sessment (type, scope, la on on whether module ca			ation offered — if not every seme-		
e) pres Langua	entatio ige of a	ation in groups of up to g n (20 to 45 minutes) ssessment: German and,	_				
Allocat	ion of p	Diaces					
Additio	nal inf	ormation					
Worklo	Dad						
90 h							
Teachi	ng cycl	e					
Referred to in LPO I (examination regulations for teaching-degree programmes)							
-							
Module appears in							
Master's degree (1 major) Biology (2015)							
	Master's degree (1 major) Biosciences (2016)						
	Master's degree (1 major) Biosciences (2017)						
	Master's degree (1 major) Biosciences (2018)						
Master's degree (1 major) Biosciences (2021) Master's degree (1 major) Biosciences (2023)							
	Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)						
master	5 4051		(

Module	e title				Abbreviation
		ct Studies Biology and N	atural Sciences 2B		07-MVMINT2B-152-m01
Module coordinator				Module offered by	
Coordi	nator B	ioCareers		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate	Please consult with	course advisory ser	vice in advance.
Conten	Its				
-	•	fic lecture, seminar, work es with a graded assessr		ical course (1 weekl	y contact hour) in biological or
Intend	ed lear	ning outcomes			
Specifi	c skills	and knowledge on an in	terdisciplinary subjec	t in the biological o	r natural sciences.
•		, number of weekly conta		· · · · · ·	
		t in: German and/or Engl night also be offered in V			
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-
e) pres	entatio age of a	nation in groups of up to g n (20 to 45 minutes) ssessment: German and		o minutes) or	
Allocal		JIACES			
Additio	onal Inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	е			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Biology (2015)					
Master's degree (1 major) Biosciences (2016)					
	Master's degree (1 major) Biosciences (2017)				
Master	-	ee (1 major) Biosciences	(2017)		
Master Master	's degr	ee (1 major) Biosciences ee (1 major) Biosciences	(2017) (2018)		
Master Master Master	's degr	ee (1 major) Biosciences	(2017) (2018) (2021)		

Module					Abbreviation
Specia	l Subje	ct Studies Biology and N	atural Sciences 3		07-MVMINT3-152-m01
Module	e coord	inator		Module offered by	
Coordin	nator B	ioCareers		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
-	•	ic lecture, seminar, work es; assessment ungrade		ical course (2 weekl	y contact hours) in biological or
Intende	ed lear	ning outcomes			
Specifi	c skills	and knowledge on an in	terdisciplinary subject	t in the biological or	r natural sciences.
		, number of weekly conta		-	
Course Method	type: r		, Ü, P, R or E format nguage — if other tha		tion offered — if not every seme-
ster, in	formati	on on whether module c	an be chosen to earn	a bonus)	
		mpletion as certified by t ssessment: German and			
Allocat	ion of _l	olaces			
Additio	onal inf	ormation			
	_				
Worklo	ad				
120 h					
Teachi	ng cvcl	e			
	0.93				
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Biology (201	5)		
	Master's degree (1 major) Biosciences (2016)				
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
	-	ee (1 major) Biosciences	-		
Master	's degr	ee (1 major) Biosciences	(2024)		

Module	e title				Abbreviation	
Specia	al Subjec	t Studies Biology and	l Natural Sciences 4		07-MVMINT4-152-m	101
Module coordinator			Module offered by			
	Coordinator BioCareers					
ECTS		d of grading	Only after succ. com	Faculty of Biology		
5	-i	ical grade				
) Duratio	r	Module level	Other prorequisites			
1 seme		graduate	Other prerequisites Please consult with	course advisory sen	vice in advance	
		glauuale	Flease consult with			
Conten						
		ic lecture, seminar, wo es with a graded asses	orkshop, retreat or pract ssment.	ical course (2 weekl	y contact hours) in b	oiological or
Intend	led learn	ing outcomes				
Specifi	ic skills	and knowledge on an	interdisciplinary subject	t in the biological or	r natural sciences.	
Course	es (type,	number of weekly cor	ntact hours, language —	if other than Germa	an)	
S (2)						
	e taught	in: German and/or Er	nglish			
Course	e type: m	ight also be offered ir	n V, Ü, P, R or E format			
			, language — if other tha e can be chosen to earn		ition offered — if not	every seme-
•					<u> </u>	
		pages) or	utes, including multiple	e choice questions) (01	
			e each (30 to 60 minute	s) or		
			o 3 candidates (30 to 6	-		
e) pres	sentatior	n (20 to 45 minutes)				
Langua	age of as	ssessment: German ar	nd/or English			
Allocat	tion of p	laces				
Additic	onal info	ormation				
Worklo	oad					
	Jau					
150 h						
Teachi	ing cycle					
Referre	ed to in	LPOI (examination re	gulations for teaching-o	legree programmes)		
Modul	e appea	rs in				
		e (1 major) Biology (2	015)			
	-	e (1 major) Bioscience	-			
	-		m MINT Teacher Educati	on PLUS. Elite Netw	ork Bavaria (ENB) (2	016)
			r Education PLUS, Elite I			,
		e (1 major) Bioscience		× ×		
	-	e (1 major) Bioscience				
	-	-	m MINT Teacher Educati	on PLUS, Elite Netw	ork Bavaria (ENB) (2	020)
Supple	ementar	y course MINT Teache	r Education PLUS, Elite I	√etwork Bavaria (EN	B) (2020)	
		e (1 major) Bioscience				
	-	e (1 major) Bioscience				
Master		e (I major) bioscience	=5 (2023)			
	r's degre	e (1 major) Bioscience	-			
Master		-	es (2024)	generated 19-Apr-2025 • exa	am reg da.	page 255 / 265



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 256 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module title					Abbreviation	
Special Subject Studies Biology and Natural Sciences 4B				07-MVMINT4B-152-	m01	
Modul	e coordinator			Module offered by		
	nator BioCareers		Out offers and a second	Faculty of Biology		
ECTS	Method of grading (not) successfully cor	nnlatad	Only after succ. com	ipi. of module(s)		
5		inpleted				
Duratio			Other prerequisites		iin	
1 seme			Please consult with	course advisory ser	/ice in advance.	
Conten						
	r specific lecture, semi l sciences; assessmen			ical course (2 weekl	y contact hours) in b	piological or
Intend	ed learning outcomes					
Specifi	ic skills and knowledge	e on an in	terdisciplinary subjec	t in the biological o	r natural sciences.	
Course	es (type, number of wee	ekly conta	act hours, language —	if other than Germa	in)	
S (2)						
Module	e taught in: German an					
Course	e type: might also be of	fered in V	/, Ü, P, R or E format			
	d of assessment (type, formation on whether				ition offered — if not	every seme-
a) writt	ten examination (30 to	60 minut	es, including multiple	e choice questions)	or	
	(15 to 30 pages) or		, 6			
	examination of one ca			-		
	examination in groups		3 candidates (30 to 6	o minutes) or		
	entation (20 to 45 min age of assessment: Gei		/or English			
	tion of places	manana				
Allocal	tion of places					
Additio	onal information					
Additio						
Worklo	bad					
150 h						
Teachi	ng cycle					
Referre	ed to in LPO I (examina	ation regu	llations for teaching-c	legree programmes)		
	· · · · · · · · · · · · · · · · · · ·			<u> </u>		
Module	e appears in					
	r's degree (1 major) Bio	1001 (201	E)			
	r's degree (1 major) Bio					
				on PLUS, Flite Netw	ork Bayaria (FNR) (20	016)
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Master's degree (1 major) Biosciences (2017)						
	r's degree (1 major) Bio					
	r's teaching degree Gyr			on PLUS, Elite Netw	ork Bavaria (ENB) (2	020)
Supple	ementary course MINT	Feacher E	ducation PLUS, Elite I	Network Bavaria (EN	B) (2020)	
	r's degree (1 major) Bio					
	r's degree (1 major) Bio					
Master	r's degree (1 major) Bio	sciences	(2024)			
Master's w	vith 1 major Biosciences (2017)		JMU Würzburg •	generated 19-Apr-2025 • ex	am. reg. da-	page 257 / 265
				er (120 ECTS) Biowissenscha		



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 258 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

Module	title				Abbreviation
Specia	Subje	ct Studies Biology and N	atural Sciences 5		07-MVMINT5-152-m01
Module		instar		Madula offered by	
				Module offered by	
		ioCareers		Faculty of Biology	
ECTS		od of grading	Only after succ. con	ipl. of module(s)	
6		successfully completed			
Duratio		Module level	Other prerequisites		· · ·
1 seme		graduate	Please consult with	course advisory ser	vice in advance.
Conten	ts				
-	•	ïc lecture, seminar, work es; assessment ungrade		ical course (3 weekl	y contact hours) in biological or
Intende	ed lear	ning outcomes			
		and knowledge on an int	terdisciplinary subject	t in the biological o	r natural sciences.
		, number of weekly conta	· · · · · ·		
	- (type	, number of weekly collid	et nours, language –		A11)
		t in: German and/or Engl night also be offered in V			
		-		an Gorman, oxamina	ation offered — if not every seme-
		on on whether module ca			ation offered — If not every serile-
•		mpletion as certified by t			
		ssessment: German and,			
Allocat					
•••		ormation			
Additio	natini	ormation			
Worklo	ad				
180 h					
Teachi	ıg cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Module	e appea	irs in			
		ee (1 major) Biology (201	5)		
	-	ee (1 major) Biosciences			
	-	-		ion PLUS, Elite Netw	ork Bavaria (ENB) (2016)
		y course MINT Teacher E			
Master's degree (1 major) Biosciences (2017)					
	-	ee (1 major) Biosciences			
	-			ion PLUS, Elite Netw	ork Bavaria (ENB) (2020)
		y course MINT Teacher E			
		ee (1 major) Biosciences			
	-	ee (1 major) Biosciences			
Master	's degr	ee (1 major) Biosciences	(2024)		
		ning degree Gymnasium I ry course MINT Teacher E			ork Bavaria (ENB) (2025) B) (2025)

Module	title				Abbreviation				
Theory and History of Science					07-MWIG-152-m01				
Module coordinator				Module offered by					
				•					
		ioCareers	Outra francisca a su	Faculty of Biology					
ECTS		od of grading	Only after succ. com	pl. of module(s)					
3		successfully completed							
Duratio		Module level	Other prerequisites						
1 seme		graduate							
Conten	ts								
sion ma	aking a				human memory, intentional deci- Fundamental terms and princip-				
Intende	ed lear	ning outcomes							
awaren	ess of		terms and definitions		hey have developed an increased and concerns arising with know-				
Courses	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)				
S (2)									
Module	taugh	t in: German and/or Engl	ish						
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-				
a) writte	en exa	mination (30 to 60 minut	es, including multiple	e choice questions) of	or				
b) log (:	15 to 3	o pages) or		·					
		ation of one candidate e							
		nation in groups of up to g	3 candidates (30 to 6	o minutes) or					
		n (20 to 45 minutes) ssessment: German and,	or English						
Allocat	-								
AllULAL		JIACES							
Additio	nalinf	ormation							
	nat ini								
Worklo	ad								
90 h									
Teachir	ıg cycl	e							
	_ ,								
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)					
Module appears in									
Master's degree (1 major) Biology (2015)									
Master's degree (1 major) Biosciences (2016)									
Master'	Master's degree (1 major) Biosciences (2017)								
Master'	Master's degree (1 major) Biosciences (2018)								
Master'	's degr	ee (1 major) Biosciences	(2021)						
Master'	's degr	ee (1 major) Biosciences	(2023)						
	c door	ee (1 major) Biosciences	(202)		Aaster's degree (1 major) Biosciences (2023)				

Module title				Abbreviation	
Cell and Deve	elopmental Biology Maste	er 1 B		07-MZE1-B-152-m01	
Module coordinator Module offered by					
	Chair of Cell Biology and	Developmental Bio-	Faculty of Biology		
logy	chair of cell blotogy and				
ECTS Meth	od of grading	Only after succ. con	npl. of module(s)		
3 (not)	successfully completed				
Duration	Module level	Other prerequisites	i		
1 semester	graduate				
Contents					
	<i>ellpathologie</i> (Cytopatholo onsequences, such as inf			cell and unravels their biological cdisorders and cancer.	
	rning outcomes				
		ound knowledge on c	vtopathology and ar	e able to put this into the broader	
	ll biology research.		jtoputhology and ar		
Courses (type	e, number of weekly conta	ict hours, language –	- if other than Germa	an)	
V (1)	,				
Module taug	nt in: German and/or Engl	ish			
				ation offered — if not every seme-	
ster, informa	tion on whether module c	an be chosen to earn	a bonus)		
	amination (30 to 60 minut			or	
	nation of one candidate e nation in groups of up to g				
	assessment: German and		o minutes)		
Allocation of	places				
Additional in	formation				
Workload					
90 h					
Teaching cyc	le				
Referred to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Module appears in					
Master's degree (1 major) Biology (2015)					
-	Master's degree (1 major) Biosciences (2016)				
-	ree (1 major) Biosciences				
	ree (1 major) Biosciences				
-	ree (1 major) Biosciences				
-	ree (1 major) Biosciences	-			
master s deg	ree (1 major) Biosciences	(2024)			

Module	e title				Abbreviation	
Cell an	d Develo	opmental Biology Mas	ter 2 B		07-MZE2-B-152-m0	1
Module coordinator				Module offered by		
holder of the Chair of Cell Biology and Developmental Bi			Dovelonmental Rie	Faculty of Biology		
logy	of the C	fiall of Cell Biology and	i Developmentat bio-	raculty of biology		
ECTS	Metho	d of grading	Only after succ. con	npl. of module(s)		
3		uccessfully completed				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten		<u> </u>	1			
knowle in deve regene	edge. Ins elopmen ration ar	nale und Differenzieru. tead, historically impo tal biology are present nd morphogenetic cell and development with	rtant as well as particued. The topics range fin migration to molecula	ularly interesting and om classical develo r stem cell biology, e	l important trend-se pmental subjects su	tting topics ch as tissue
Intende	ed learn	ing outcomes				
		ssess a knowledge of are able to put this int				
Course	s (type,	number of weekly con	act hours, language –	- if other than Germa	ın)	
V (1)						
Module	e taught	in: English				
		essment (type, scope, on on whether module			tion offered — if not	every seme-
a) writt	en exam	nination (30 to 60 minu	ites, including multiple	e choice questions)	or	
		tion of one candidate				
		ation in groups of up to e informed about the r			nt prior to the cours	•
		sessment: German an		ope of the assessme		е.
	tion of pl					
 A d d :+ : a		rmation				
Auditio	onal info	IIIIdlioii				
Worklo	bad					
90 h						
Teachi	ng cycle					
 Referre	ed to in L	.POI (examination reg	ulations for teaching-	degree programmes)		
 Referre	ed to in L	POI (examination reg	ulations for teaching-	degree programmes)		
	ed to in L e appear		ulations for teaching-o	degree programmes)		
 Module	e appear			degree programmes)		
 Module Master Master	e appear 's degre 's degre	r s in e (1 major) Biology (20 e (1 major) FOKUS Life	15) Sciences (2015)	degree programmes)		
 Module Master Master Master	e appear 's degre 's degre 's degre	r s in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Bioscience:	15) Sciences (2015) 5 (2016)	degree programmes)		
 Module Master Master Master Master	e appea r 's degre 's degre 's degre 's degre	r s in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Biosciences e (1 major) Biosciences	15) Sciences (2015) 5 (2016) 5 (2017)	degree programmes)		
 Module Master Master Master Master Master	e appear ''s degre ''s degre ''s degre ''s degre ''s degre	r s in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Biosciences e (1 major) Biosciences e (1 major) Biosciences	15) Sciences (2015) 5 (2016) 5 (2017) 5 (2018)	degree programmes)		
 Module Master Master Master Master Master	e appear ''s degre ''s degre ''s degre ''s degre ''s degre	r s in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Bioscience: e (1 major) Bioscience: e (1 major) Bioscience: e (1 major) Bioscience:	15) Sciences (2015) 5 (2016) 5 (2017) 5 (2018) 5 (2021)	degree programmes)		
 Module Master Master Master Master Master exchan	e appear d's degre d's degre d's degre d's degre degre degre degre degre prog	r s in e (1 major) Biology (20 e (1 major) FOKUS Life e (1 major) Biosciences e (1 major) Biosciences e (1 major) Biosciences	15) Sciences (2015) 5 (2016) 5 (2017) 5 (2018) 5 (2021))	degree programmes)		



Master's degree (1 major) Biosciences (2024) Master's degree (1 major) FOKUS Life Sciences (2025)

Master's with 1 major Biosciences (2017)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da-	page 263 / 265
	ta record Master (120 ECTS) Biowissenschaften - 2017	

				Abbreviation		
Clinical Tumor Biology 07					07-TUM-CLIN-152-m01	
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
sed. Se	everal ti		issed (such as tumoi	urs of the skin, lung,	clinical aspects will be addres- intestine, breast, blood). Additio- linical trials.	
Intend	ed learı	ning outcomes				
		the similarities and diffentions of clinical medicine		nour types. Understa	nding of requirements, possibili-	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
V (2) Module	e taugh	t in: German and/or Engl	ish			
		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-	
c) oral d) oral Studer	examin examin Its will l	nination (30 to 60 minut ation of one candidate es ation in groups of up to 3 be informed about the mo ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	s) or o minutes)		
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
150 h						
	ng cycl	6				
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
Module appears in						
Master's degree (1 major) Biology (2015)						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) Biosciences (2016)						
	Master's degree (1 major) Biosciences (2017)					
	Master's degree (1 major) Biosciences (2018)					
	-	ee (1 major) Biosciences	(2021)			
		gram Biosciences (2022)	(2022)			
	-	ee (1 major) Biosciences ee (1 major) Biosciences				
	-		-			
muster	Master's degree (1 major) FOKUS Life Sciences (2025)					

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Module title					Abbreviation		
Molecular Tumor Biology					07-TUM-MOL-152-m01		
Module coordinator		Module offered by					
degree	degree programme coordinator Biologie (Biology)		e (Biology)	Faculty of Biology			
ECTS	ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	1 semester graduate						
Contents							
The lecture <i>Molekulare Tumorbiologie</i> (<i>Molecular Tumour Biology</i>) discusses molecular characteristics of tu- mours and relevant biological processes (such as signal transduction, cell growth, cell proliferation, metabo- lism), tumour-specific modifications and current molecular biological methods in tumour research.							
Intended learning outcomes							
Understanding of current topics and challenges in tumour research, understanding of the methods which could be used address these challenges.							
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)		
V (2) Module taught in: German and/or English							
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)							
 a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English 							
Allocation of places							
Additic	nalinf	ormation					
Auunu							
Workload							
150 h Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module appears in							
Master's degree (1 major) Biology (2015)							
Master's degree (1 major) FOKUS Life Sciences (2015)							
Master's degree (1 major) Biosciences (2016)							
Master's degree (1 major) Biosciences (2017)							
Master's degree (1 major) Biosciences (2018)							
Master's degree (1 major) Biosciences (2021) exchange program Biosciences (2022)							
Master's degree (1 major) Biosciences (2023)							
Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)							
Master's degree (1 major) FOKUS Life Sciences (2025)							