

Module Catalogue for the Subject

FOKUS Life Sciences

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

> Examination regulations version: 2015 Responsible: Faculty of Biology

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Learning Outcomes

German contents and learning outcome available but not translated yet.

Das Masterstudium FOKUS Life Sciences ist ein internationaler Studiengang in englischer Sprache und ermöglicht eine internationale, forschungsorientierte Ausbildung in den Lebenswissenschaften. Vermittelt werden theoretische und praktische Kompetenzen im Gebiet Life Sciences, um in der Lage zu sein, wissenschaftliche Fragestellungen aus den Gebieten der Lebenswissenschaften bearbeiten zu können. Die Studierenden erlangen die Kompetenz, komplexe wissenschaftliche Fragestellungen zu verstehen und zu formulieren. Daneben erwerben sie die Fähigkeit, die Relevanz wissenschaftlicher Fragestellungen zu erkennen und experimentelle Lösungsansätze zu Fragestellungen aus dem Bereich der Lebenswissenschaften eigenständig zu planen und umzusetzen. Des Weiteren wird von den Studierenden die Fähigkeit erlangt, Ergebnisse der Experimente zu interpretieren und in einem wissenschaftlichen Kontext zu gewichten und einzuordnen. Die flexible Gestaltung des Studiengangs eröffnet besonders qualifizierten Studierenden die Möglichkeit, über einen "Fast track" frühzeitig mit einer Promotion zu beginnen, die von einem Strukturierten Ausbildungsprogramm begleitet wird und so parallel zur Promotion den Abschluss Master of Science ermöglicht. Näheres ist in der Promotionsordnung geregelt." In den in den Modulbeschreibungen erläuterten Lernergebnissen erlernen die Studierenden zudem die im Leitbild der Universität, den Qualitäts- und Qualifikationszielen der Fakultät für Biologie formulierten Elemente zur Entwicklung ihrer Persönlichkeit, und sie sie haben sich wissenschaftliches Denken und Arbeiten als fachliche Experten auf der ihnen entsprechenden Niveaustufe 7 des Hochschulgualifikationsrahmens angeeignet, haben die Regeln Guter Wissenschaftlicher Praxis verinnerlicht und wenden sie auch in fachfremden Bereichen an und können als fachliche Experten zielgruppenspezifisch fachkundig fundierte komplexere Zusammenhänge verständlich darstellen. Sie wissen um ihre gesellschaftspolitische Verantwortung als wissenschaftlich gebildete Akademiker der Life Sciences auf Masterebene und können fachlich begründete Bewertungen einer breiteren Öffentlichkeit vermitteln. Hinsichtlich neuer Erkenntnisse im Fach sind sie sensibilisiert hinsichtlich der Bewertung der aus dem Erkenntnisgewinn ableitbaren technischen Anwendbarkeit. Die Absolventinnen und Absolventen der Life Sciences haben gelernt, in ihrem organisatorischen Umfeld bürokratischen Ausuferungen oder politischen Absurditäten mit Humor zu begegnen, sie standhaft zu ertragen, oder Wege zu suchen, diese zu umgehen oder zu vermeiden (den Kriterien des Science Hero Preises der Konferenz Biologischer Fachbereiche (KBF.bio) folgend).

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)):

13-Jul-2015 (2015-25)

04-Apr-2019 (2019-30)

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



Compulsory Courses

(30 ECTS credits)

Module title			Abbreviation			
Methods in Life Sciences				07-MLS1-152-m01		
Module coordinator Modu			Module offered by	Module offered by		
degree	progra	mme coordinator Biolog	gie (Biology)	Faculty of Biology		
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					
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.						
Intende	ed lear	ning outcomes				
Studen se met	ts are a hods ai	able to review and expa nd techniques to desigr	nd their knowledge of experiments in a spe	standard molecular cific research area.	techniques and are a	able to choo-
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (3) Module	e taugh	t in: English				
Methoo module is	d of ass s creditab	sessment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
c) oral d) oral Studen Langua	examin examir ts will ge of a	ation of one candidate nation in groups of up to be informed about the r ssessment: English	each (30 to 60 minute 93 candidates (30 to 6 nethod, length and sc	s) or o minutes) ope of the assessme	nt prior to the cours	e.
Allocal		Jiaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biochemist	ry (2015)			
Master	's degr	ee (1 major) Biology (20	15)			
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) Biochemistry (2017) Master's degree (1 major) Biosciences (2018)						
Master's degree (1 major) Biosciences (2018)						
master	s uegr	ee (1 major) biochemist	iy (2019)			
Master's wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 10 / 210

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)

Module title			Abbreviation			
Topics	and Co	ncepts in Life Sciences			07-MLS2-152-m01	
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Biolog	gie (Biology)	Faculty of Biology		
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	0	<u>,</u>			
A broad variety of topics and concepts from the areas of neuroscience, infection and immunity, integrative biology, and biomedicine including for example: protein characterisation, DNA repair, Drosophila, computational biology, and neurocircuits.						
Intende	ed lear	ning outcomes				
Studen explain	ts have their s	e an overview of the cur ignificance and scientif	rent research topics in ic background.	the Graduate Schoo	l of Life Sciences an	d are able to
Course	S (type, r	umber of weekly contact hours	, language — if other than Ge	rman)		
V (3) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	essment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
c) oral o d) oral Studen Langua	examin examir ts will ge of a	ation of one candidate tation in groups of up to be informed about the r ssessment: English	each (30 to 60 minute 3 candidates (approx nethod, length and sco	s) or . 30 to 60 minutes) ope of the assessme	nt prior to the course	e.
Allocat		Jaces				
 A .] .] %			_			
Additio	natin	ormation				
Worklo	ad					
300 h			_			
Teachir	ng cycl	9				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ammes)		
Module	e appea	nrs 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 wi	ith 1 majo	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	e generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 12 / 210



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			
Researe	Research Concepts in Life Sciences				07-MLS3-152-m01	
Module coordinator				Module offered by		
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	Contents					
Student to prote structur as in th	ts are i ein stru ral biol e GSLS	ntroduced to research co icture, transcription and g ogy, neuronal differentia 5.	ncepts in the life scie growth control, genet tion and microbiolog	ences including for e ics, signalling casca y. Topics may vary ac	xample: biophysical approaches des and receptor pharmacology, ccording to current research are-	
Intende	ed leari	ning outcomes				
Student rently p gy and	ts are a resent biome	able to recognise the rese in the various section of dicine and are able to des	earch concepts and th the GSLS such as ner sign experiments.	neir applications in v uroscience, infectior	various fields of life sciences cur- n and immunity, integrative biolo-	
Courses	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
Ü (7) + S Module	S (1) taugh	t in: English				
Method module is	l of ass creditab	sessment (type, scope, langua ₎ le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (10 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) Students will be informed about the method, length and scope of the assessment prior to the course. 						
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	е				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	nrs in				
Master'	s degr	ee (1 major) FOKUS Life S	ciences (2015)			



Compulsory Electives

(60 ECTS credits)



Module Group - Group General Elective Modules

(ECTS credits)

Module	Module title				Abbreviation	
Neurobiology, Behavioural Physiology and Animal Ecology			07-MS1-152-m01			
Module	coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	Contents					
stems. mental partner if anima an intro tegrativ then to	matter Anima param or enc als are oductio re appr interac	s: Temporal organisations Is make use of endogen eters. To be at the right ough food has to be fou at the same place at th n to the mechanisms u oach, the lecture goes ctions in social groups,	on in the animal kingdo nous clocks to predict a place at the right time nd. Many mutualistic, e same time and in the nderlying the tempora from timing mechanisr populations or partne	om. Timing plays an i and adapt to daily or a is of great fitness re antagonistic or socia appropriate develo l organisation in the ns on the neuronal le rs in complex and va	mportant role in all seasonal changes in elevance if -for exam il interactions can or pmental stage. The l animal kingdom. Ad evel to individual be riable ecosystems.	living sy- n environ- ple- a mating nly take place ecture gives opting an in- haviour and
Intende	ed lear	ning outcomes				
Studen They lea of resea	ts get t arn to i arch fir	o know the advantages elate and integrate diff idings.	of an integrative appr erent fields within biol	oach when analysing ogy. In the seminar,	g complex biological students practise th	systems. e discussion
Course	S (type, r	number of weekly contact hour	, language — if other than Ge	rman)		
V (3) Module	taugh	t in: English				
Methoo module is	l of ass creditab	essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
a) writte c) oral e d) oral Studen Langua	en exa examin examir ts will ge of a	mination (30 to 60 min ation of one candidate nation in groups of up to be informed about the ssessment: German an	utes, including multipl each (30 to 60 minute 33 candidates (30 to 6 nethod, length and sc d/or English	e choice questions) (s) or o minutes) ope of the assessme	or nt prior to the cours	e.
Allocat	ion of j	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
				······································		
Module	annea	urs in				
Master Master Master Master Supple	s degr s degr s degr s degr s teacl menta	ee (1 major) Biology (20 ee (1 major) FOKUS Life ee (1 major) Bioscience ning degree Gymnasiun y course MINT Teacher	15) Sciences (2015) s (2016) n MINT Teacher Educat Education PLUS, Elite	ion PLUS, Elite Netwo Network Bavaria (EN	ork Bavaria (ENB) (20 B) (2016)	016)
Master's wi	th 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	er (120 ECTS) FOKUS Life Scien	am. reg. da- nces - 2015	page 17 / 210

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)

Module title				Abbreviation		
Neurog	Neurogenetics of Behaviour 07-MS1NB-152-m01					
Module	e coord	inator		Module offered by		
holder	of the (Chair of Neurobiology a	nd Genetics	Faculty of Biology		
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		1			
To unde be over how the ant top ting, mi genetic	erstanc whelm e brain ics of b irror ne model	I how the brain controls ingly complex and plas controls behaviour. Th behavioural neurobiolog eurons, molecular mech l systems such as the fr	s behaviour is at the he tic, yet neurogenetic n e lecture and seminar gy (incl. e. g. sleep, cor anisms of auditory-gui uit fly Drosophila, the	eart of neuroscience. nethods are powerful will give a state-of-th ntrol of appetite and ided behaviour, neur mouse, and the nem	Both brain and beha tools to dissect the e art view on current feeding, social beha ogenetic techniques atode C. elegans.	aviour can principles of and import- viour, ma-) focusing on
Intende	ed lear	ning outcomes				
In the lo genetic sing res	ecture, s in ge search	students acquire theor neral and the neuroger findings in English.	etical and methodolog etics of behaviour. In 1 	gical insights into cur the seminar, student	rent topics in the fie s practise presenting	ld of neuro- g and discus-
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) + Module	S (1) e taugh	t in: English				
Method	d of ass	sessment (type, scope, lang	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
module is	s creditab	le for bonus)				
a) writt c) oral d) oral Studen Langua	en exai examin examir ts will l ge of a	mination (30 to 60 min ation of one candidate nation in groups of up to be informed about the ssessment: German an	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 method, length and sc d/or English	e choice questions) (s) or o minutes) ope of the assessme	or nt prior to the course	2.
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Module appears in						
Master Master Master Master Supple Master Master	's degru 's degru 's teach mentar 's degru 's degru	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 ee (1 major) Bioscience rFOKUS Life Sciences (2015)	515) Sciences (2015) s (2016) n MINT Teacher Educat Education PLUS, Elite s (2017) s (2018) JMU Würzburg •	ion PLUS, Elite Netwo Network Bavaria (EN 9 generated 18-Apr-2025 • exa	ork Bavaria (ENB) (20 B) (2016) m. reg. da-	016) page 19 / 210
	uju		ta record Maste	er (120 ECTS) FOKUS Life Scier	1Ces - 2015	F-03 197 210



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)

Module title			Abbreviation			
Endogenous Clocks B			07-MECB-152-m01			
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Neurobiology and	d Genetics	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Introduction into endogenous clocks of unicellular organisms, fungi, plants and animals, with a focus on the neuronal organisation of the clock in the brain of mammals and insects. The biological functions of endogenous clocks and the underlying mechanisms will be discussed on the molecular, cellular and organismic levels. It will be explained how clocks adjust to a 24h day with variable photoperiods. Applied aspects regarding e. g. shift work or jetlag will also be discussed.						
Intende	ed lear	ning outcomes				
The stu into cu	dents rrent re	learn fundamental princip search in the field.	oles underlying chror	nobiology/endogeno	us clocks and obtain	n an insight
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (2) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	Sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, informat	ion on whether
c) oral (d) oral Studen Langua	examin examir ts will ge of a	ation of one candidate en nation in groups of up to g be informed about the mo ssessment: German and	ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco /or English	s) or o minutes) ope of the assessme	nt prior to the cours	e.
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachiı	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	immes)		
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015) 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 wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 21 / 210

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			
Endogenous Clocks			07-MS1CB-152-m01			
Module	e coord	inator		Module offered by		
holder	of the (Chair of Neurobiology a	nd Genetics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade		· · · · ·		
Duratio	n	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	ts	3.44440				
Introdu neuron clocks be expl work of	al orga and the lained l r jetlag	nto endogenous clocks nisation of the clock in e underlying mechanis how clocks adjust to a will also be discussed.	of unicellular organisn the brain of mammals ns will be discussed or 24h day with variable p	ns, fungi, plants and and insects. The bio n the molecular, cellu photoperiods. Applie	animals, with a focu logical functions of ular and organismic d aspects regarding	IS on the endogenous levels. It will e.g. shift
Intende	ed tear	ning outcomes				
The stu into cu search	idents rrent re finding	learn fundamental prin search in the field. In t s in English.	ciples underlying chror he seminar, they practi	obiology/endogeno se their presentatior	us clocks and obtair skills and the discu	1 an insight Ission of re-
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) + Module	S (1) e taugh	t in: English				
Method	d of ass	sessment (type, scope, lang	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
module is	s creditab	le for bonus)				
a) writt c) oral d) oral Studen Langua	en exal examin examir ts will ge of a	mination (30 to 60 min ation of one candidate nation in groups of up t be informed about the ssessment: German ar	utes, including multiple each (30 to 60 minute o 3 candidates (30 to 6 method, length and sce od/or English	e choice questions) o s) or o minutes) ope of the assessme	or nt prior to the course	e.
Allocat	ion of I	nlaces	<u></u>			
Allocal						
		ormation				
Additio	nat ini					
 Worklo						
workto	au					
300 n		-				
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 degr	ee (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)						
Mactor	s uegr Is toorl	ee (1 majui) Diuscience hing degree Gympaciur	:5 (2010) n MINT Teacher Educat	ion PLUS Flite Netwo	ork Bayaria (ENR) (a	020)
Master's wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg •	generated 18-Apr-2025 • exa	am. reg. da-	page 23 / 210
			ta record Maste	er (120 ECTS) FOKUS Life Scier	1Ces - 2015	

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 FOKUS Life Sciences (2015)

Module title					Abbreviation		
Neuromodulation and Neuronal Development B o7-MENMNDB-152-mo1					n01		
Module coordinator				Module offered by			
holder of the Chair of Neurobiology and		d Genetics	Faculty of Biology				
ECTS Method of grading			Only after succ. con	npl. of module(s)			
5	(not) s	successfully completed					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts		1				
Neurom aptic tra stems u biology ronal p	Neuromodulation: cellular and molecular biology of neuromodulators and their receptors, modulation of syn- aptic transmission and membrane potential, theoretical and functional aspects of neuromodulation, model sy- stems used to study modulation of neuronal circuits. Fundamental principles of molecular developmental neuro- biology. Focus is on the establishment of the neuroectoderm, pattern generation and regional specification, neu- ronal precursors, neuronal growth, differentiation of neurons, axonal pathfinding, neuronal connectivity.						
Intende	ed lear	ning outcomes					
The stu an insiន្	dents ght into	earn fundamental princ o current research in the	iples underlying neuro field.	omodulation and neu	Ironal development	and obtain	
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)			
V (3) Module	e taugh	t in: English					
Method	d of ass	Sessment (type, scope, langu	age — if other than German,	examination offered — if no	t every semester, informati	on on whether	
module is	creditab	le for bonus)					
c) oral e d) oral e Studen Langua	 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 						
Allocat	ion of _l	olaces					
			_				
Additio	nal inf	ormation	_				
Worklo	ad						
150 h							
Teachir	ıg cycl	e					
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)			
Module	appea	urs 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 leacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Supplementary course while reacher coulding PLUS, chile Network Bavaria (ENB) (2016) Master's degree (1 major) Riosciences (2017)							
Master	Master's degree (1 major) Biosciences (2018)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS. Elite Network Bavaria (ENB) (2020)							
Supple	mentai	γ course MINT Teacher E	Education PLUS, Elite	Network Bavaria (EN	B) (2020)	,	
Master's wi	th 1 majo	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 25 / 210	



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		
Neuromodulation and Neuronal Development					07-MS1NMND-152-r	n01
Module coordinator			Module offered by			
holder of the Chair of Neuropiology and		nd Genetics	Faculty of Biology			
ECTS Method of grading		Only after succ. cor	npl. of module(s)			
10	nume	rical grade		•		
Duratio	n	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	ts	3.446410				
Neurom aptic tra stems u biology ronal pu	nodula ansmis used to . Focus recurso	tion: cellular and molect ssion and membrane po study modulation of no is on the establishmer prs, neuronal growth, di	ular biology of neuron tential, theoretical an euronal circuits. Funda It of the neuroectoder fferentiation of neuror	nodulators and their d functional aspects mental principles of m, pattern generation is, axonal pathfindin	receptors, modulation of neuromodulation molecular developm n and regional specif g, neuronal connecti	on of syn- , model sy- 1ental neuro- fication, neu- ivity.
Intende	ed lear	ning outcomes				
The stu an insig finding	dents ght into s in En;	learn fundamental princ o current research in the glish.	iples underlying neuro field. In the seminar,	omodulation and neu students practise pr	uronal development esenting and discus	and obtain sing research
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (2) + S Module	S (1) e taugh	t in: English				
Methoo module is	d of ass creditab	Sessment (type, scope, lang Ile for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
 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 						
Allocat	ion of j	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ıg cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ammes)		
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'	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)					
Master's wi	th 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scien	am. reg. da- nces - 2015	page 27 / 210

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 FOKUS Life Sciences (2015)

Module title					Abbreviation			
Developmental Neurobiology and Chronobiology				07-MS1NEC-152-m01				
Module coordinator				Module offered by				
holder	of the (Chair of Neurobiology a	nd Genetics	Faculty of Biology				
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	Contents							
Lecture and seminar <i>Endogenous Clocks</i> : Students acquire an overview of endogenous clocks in unicellular or- ganisms, fungi, plants, and animals with a focus on the neuronal organisation of the endogenous clock in the brain of mammals and insects. Students learn about the biological purpose of endogenous clocks, their function on a molecular, cellular, and organismic level, as well as their adaptation to 24 hour days with varying hours of daylight. Related aspects of jetlag and shift-work are discussed. Lecture <i>Neuronal Development</i> : Fundamentals of neuronal development on the molecular level. Main focus is the establishment of the neuroectoderm, pattern formation, regional subdivision, neuronal progenitor cells, cell growth, differentiation of neurons, axonal naviga-								
Intende	ed lear	ning outcomes						
Studen ment a ments a are crit	ts acqu nd gair and to ically d	ire a fundamental kno an insight into current research specific quest iscussed in the semina	wledge and understand research. Students als ions that arise in their r.	ding of endogenous so learn to independ reading. Results of t	clocks and neuronal ently work on readin he students' indeper	develop- g assign- ıdent study		
Course	S (type, n	umber of weekly contact hour	s, language — if other than Gei	rman)				
V (2) + Module	S (1) e taugh	t in: English						
Methoo module is	d of ass creditab	e essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether		
a) writt c) oral o d) oral Studen Langua	en exar examin examin ts will l ge of a	nination (30 to 60 min ation of one candidate ation in groups of up t be informed about the ssessment: German ar	utes, including multiple each (30 to 60 minute o 3 candidates (30 to 6 method, length and sco d/or English	e choice questions) (s) or o minutes) ope of the assessme	or nt prior to the course	2.		
Allocat	ion of p	olaces						
Additio	nal inf	ormation						
Worklo	ad							
300 h								
Teaching cycle								
Referred to in LPO I (examination regulations for teaching-degree programmes)								
Module	e appea	irs 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 wi	ith 1 majoi	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 29 / 210		



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 degree (1 major) FOKUS Life Sciences (2025)

Module title					Abbreviation		
Experim	Experimental Sociobiology 07-MS1ES-152-m01						
Module coordinator				Module offered by	d by		
holder o logy	holder of the Chair of Behavioral Physiology and Sociobio- logy						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
10	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Content	ts						
The lect and me current more de	ture co chanis resear etail th	vers the diversity and th ms of neurobiology that ch in the Faculty. With the e topics covered in the	e development of soc t are the basis of the o he help of selected pu ecture.	ial behaviour as well rganisation of social blications, the semin	l as the behavioural groups. A special fo nar will discuss and	physiology ocus is on explore in	
Intende	d learr	ing outcomes					
Student ral biolo They are literatur	ts unde ogy. Stu e able f re in de	erstand the value of an i udents are able to recog to formulate scientific q epth.	ntegrative approach w nise and interpret rela uestions in the contex	when looking at comp ationships between v at of sociobiology and	olex correlations in b various aspects of so d are able to discuss	oehaviou- ociobiology. s cutting edge	
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ger	rman)			
V (2) + S Module	5 (1) taught	t in: English					
Method module is	l of ass creditab	essment (type, scope, langu le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	ion on whether	
 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 							
Allocati	ion of p	laces					
Additio	nal info	ormation					
Worklo	ad						
300 h							
Teachin	ig cycl	9					
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 wit	Master's with 1 major FOKUS Life Sciences (2015)JMU Würzburg • generated 18-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) FOKUS Life Sciences - 2015page 31 / 21					page 31 / 210	

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)

Module title	Abbreviation					
Molecular Biology B 07-MS2B-152-m01						
Module coordinator	Module offered by					
Dean of Studies Biologie (Biology)		Faculty of Biology				
ECTS Method of grading	Only after succ. con	pl. of module(s)				
7 (not) successfully completed						
Duration Module level	Other prerequisites					
1 semester graduate						
Contents						
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).						
Master level knowledge about the mol	ecular biology of the	aukanyotic and proka	anyotic cell			
Courses (type, number of weekly contact hours	language — if other than Ger					
V (3)						
Module taught in: German and/or Eng	lish					
Method of assessment (type, scope, langua module is creditable for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	ion on whether		
 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. 						
Allocation of places						
Additional information						
Workload						
210 h						
Teaching cycle						
Referred to in LPO I (examination regulation	is for teaching-degree progra	mmes)				
Master's with 1 major FOKUS Life Sciences (2015)	JMU Würzburg •			,		
	ta record Maste	r (120 ECTS) FOKUS Life Scien	am. reg. da- nces - 2015	page 33 / 210		



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 (2022)

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		
Molecu	Molecular Biology 07-MS2-152-m01						
Module coordinator				Module offered by			
Dean of Studies Biologie (Biology)			Faculty of Biology				
ECTS Method of grading		Only after succ. con	npl. of module(s)				
10	nume	rical grade					
Duratio	on	Module level	Other prerequisites	er prerequisites			
1 seme	ester	graduate					
Conter	nts						
cular b book " karyoti cells ir quarte molecu Biology of the o nology time). prokar on mac cell div cation nisms	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-						
Master		ning outcomes		eukanyotic and prok	anyotic cell		
Course		number of weekly contact hours	language — if other than Ge	rman)			
V (3) Modul	e taugh	t in: German and/or Eng	lish				
Metho module i	d of as: s creditat	sessment (type, scope, langu ble for bonus)	age — if other than German,	examination offered — if no	ot every semester, informat	ion on whether	
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					
Additio	onal inf	ormation					
Workload							
300 h							
Teaching cycle							
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
<u> </u>							
Master's w	vith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Maste	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scie	am. reg. da- nces - 2015	page 35 / 210	

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)
Module	title				Abbreviation
Pathog	enicity	of Microorganisms			07-MLSPM-152-m01
Module	coord	inator		Module offered by	
holder	of the O	Chair of Microbiology		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
Fundarr ted prol on biolo	nental karyoti ogy wil	orinciples of the mode of c and eukaryotic pathoge l be presented.	action of microbial p ens as model organis	athogenicity factors ms. In addition, curr	will be presented using selec- ent research methods in infecti-
Intende	ed learr	ning outcomes			
Student nisms b	ts have behind	e gained fundamental kno infectious diseases.	owledge in infection I	piology and pathoge	nicity research and the mecha-
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) Module	taugh	t in: English			
Method module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte c) oral e d) oral e Student Langua	en exar examin examin ts will l ge of a	nination (30 to 60 minute ation of one candidate ea ation in groups of up to 3 be informed about the me ssessment: German and/	es, including multiple ach (30 to 60 minute 3 candidates (approx ethod, length and sco for English	e choice questions) o s) or . 30 to 60 minutes) ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachin	ng cycl	9			
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)	
Module	appea	irs in			
Master'	s degre	ee (1 major) FOKUS Life S	ciences (2015)		
Master's degree (1 major) FOKUS Life Sciences (2025)					

Module title			Abbreviation		
Molecular Parasitology				07-MSPAR-171-m01	
Module	e coordi	nator		Module offered by	
holder logy	of the C	hair of Cell Biology and I	Developmental Bio-	Faculty of Biology	
ECTS	Metho	d of grading	Only after succ. com	pl. of module(s)	
10	numeri	ical grade		-	
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
The lect animals	ture <i>Mo</i> s. Speci	<i>lecular Parasitology</i> disc al emphasis is on neglec	cusses molecular and cted tropical diseases	l genetic aspects of p s.	parasitic diseases in humans and
Intende	ed learn	ing outcomes	•		
Particip into the	oants po e broade	er context of molecular c	e theoretical principl ell biology research.	es underlying parasi	itology and are able to put this
Course	S (type, nu	Imber of weekly contact hours, la	anguage — if other than Ger	man)	
V (1) + S Module	S (2) e taught	in: German and/or Engli	sh		
Methoo module is	d of asse	essment (type, scope, language for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte c) oral e d) oral e Studen	en exam examina examina ts will b	nination (30 to 60 minute ation of one candidate ea ation in groups of up to 3 e informed about the me	es, including multiple ach (30 to 60 minutes acandidates (30 to 60 ethod, length and sco for English	e choice questions) o s) or o minutes) ope of the assessme	or nt prior to the course.
	ion of n				
Additio	nal info	rmation			
Worklo					
200 h	<u>au</u>				
Teachir		,			
reaciiii	ig cycle				
Poforro	d to in I	POL (ovamination regulations	for toaching dogroe progra	mmac)	
			s for teaching-degree progra	inities)	
Module appears in					
Master'	's degre	e (1 maior) FOKUS Life S	ciences (2015)		
Master'	's degre	e (1 major) Biosciences ((2017)		
Master'	's degre	e (1 major) Biosciences	(2018)		
Master'	's degre	e (1 major) Biosciences ((2021)		
exchan	ge prog	ram Biosciences (2022)			
Master'	's degre	e (1 major) Biosciences ((2023)		
Master'	's degre	e (1 major) Biosciences ((2024)		

Module title			Abbreviation		
Molecu	Molecular Parasitology B			07-MSPARB-182-m01	
Module	coord	inator		Module offered by	
holder o logy	of the (Chair of Cell Biology and I	Developmental Bio-	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts	0			
The lect animals	ture <i>Me</i> s. Spec	olecular Parasitology disc ial emphasis is on neglec	cusses molecular and cted tropical disease	l genetic aspects of ¡ s.	parasitic diseases in humans and
Intende	ed lear	ning outcomes			
Particip into the	ants p broad	ossess a knowledge of th er context of molecular c	e theoretical principl ell biology research.	es underlying parasi	itology and are able to put this
Courses	S (type, r	number of weekly contact hours, la	anguage — if other than Ger	man)	
V (1) Module	e taugh	t in: German and/or Engli	sh		
Method module is	l of ass creditab	sessment (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
d) oral e d) oral e Student Langua	examin examir ts will ge of a	ation of one candidate ea ation in groups of up to g be informed about the typ ssessment: German and/	ach (30 to 60 minutes) ach (30 to 60 minutes) candidates (30 to 6 be and length of asse for English	s) or o minutes) essment at the begin	ning of the course.
Allocati	ion of p	olaces			
	-				
Additio	nal inf	ormation			
Worklo	ad				
oo h					
Teachir	ng cycl	 ۵			
	.3 .)	-			
Referre	d to in	IPOI (examination regulations	for teaching-degree progra	mmes)	
			s for teaching-degree progra	inities)	
Module	annea	ors in			
Master'	s degr	ee (1 major) FOKUS Life S	ciences (2015)		
Master'	s degr	ee (1 major) Biosciences ((2018)		
Master'	s degr	ee (1 major) Biosciences	(2021)		
exchan	ge prog	gram Biosciences (2022)			
Master'	s degr	ee (1 major) Biosciences ((2023)		
Master'	s degr	ee (1 major) Biosciences ((2024)		
Master'	s degr	ee (1 major) FOKUS Life S	ciences (2025)		

Module title					Abbreviation
Infectio	on Biolo	ogy			07-MLSINF-152-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Microbiology		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Fundam al patho method	nentals ogenici Is in inf	of molecular microbiolo; ty factors, regulation of v fection biology.	gy and infection biolo irulence, mechanism	ogy, mechanisms of a solution of host defence ar	adherence and invasion, bacteri- id pathogen interference, current
Intende	ed learr	ning outcomes			
The stu emerge	dents a nce of	are able to understand fu infectious diseases.	ndamental theories o	of molecular microbi	ology and infection biology,
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) Module	taugh	t in: English			
Method module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte c) oral e d) oral e Studen Langua	en exar examin examin ts will l ge of a	nination (30 to 60 minut ation of one candidate e ation in groups of up to g be informed about the mo ssessment: German and	es, including multiple ach (30 to 60 minutes 3 candidates (approx. ethod, length and sco ′or English	e choice questions) o s) or . 30 to 60 minutes) ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir	Teaching cycle				
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	in and a second s			
Master'	s degre	ee (1 major) FOKUS Life S	ciences (2015)		
Master'	Master's degree (1 major) FOKUS Life Sciences (2025)				

Module title			Abbreviation		
Topics	in Syst	ems Biology			07-MS3TSY-152-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Bioinformatics		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade		•	
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts	3			
Advanc sults fro as regu	es and om fun latory r	current results of compu ctional genomics, dynam networks.	tational systems biol ics of the transcripto	ogy are explained a me, of metabolism a	nd discussed, this includes re- ind metabolic networks as well
Intende	d learr	ning outcomes			
Underst ledge o	tand re f typica	cent results in systems b al technologies and resea	iology. Discuss their Irch questions of syst	implications. Have a ems biology.	an advanced (Master) level know-
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
V (2) + S Module	5 (1) taugh	t in: English			
Method module is	l of ass	e essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
c) oral e d) oral e Student Langua	examin examin ts will l ge of a	ation of one candidate ea ation in groups of up to be informed about the mo ssessment: German and	ach (30 to 60 minutes 3 candidates (30 to 60 ethod, length and sco for English	s) or o minutes) ope of the assessme	nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
300 h					
Teachir	ig cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	rs in			
Master'	s degre	ee (1 major) Biology (2014	5)		
Master'	s degre	ee (1 major) FOKUS Life S	,, ciences (2015)		
Master'	s degre	ee (1 major) Biosciences	(2016)		
Master'	s degre	ee (1 major) Biosciences	(2017)		
Master'	s degre	ee (1 major) Biosciences	(2018)		
Master'	s degre	ee (1 major) Biosciences	(2021)		
Master'	s degre	ee (1 major) Biosciences	(2023)		
Master'	s degre	ee (1 major) Biosciences	(2024)		
Master'	s degre	ee (1 major) FOKUS Life S	ciences (2025)		

Topics in Bioinformatics 07.MS2TBI-152-m01 Module correctinator Faculty of Biology Faculty of Biology Faculty of Biology ECTS Method of grading Only after succ. comp L of module(S) To numerical grade Domation Module leve! Other prerequisites 1 semester graduate Advances and current results of bioinformatics are explained and discussed, this includes results from genome and sequence analysis, protein domains and protein families, large-scale data analysis (e. g. next generation se quences, proteomics data), analysis of different functional RNAs (e. g. miRNAs, IncRNAs). Intended learning Contention Students are able to understand recent results in bioinformatics and discussed, this includes results from genome and sequence analysis (e. g. next generation se quences) Courses (yeo, number of weekly contex thours, language – if other than German) V(2) + S (.) Students are able to understand recent results in bioinformatics and discuss their implications. They have developed an advanced konvledge about typical techniques, scientific objectives and scientific questions. Ourse Stype, number of weekly contact thours, language – if other than German, examination offered – if mot were senester, information on wheetler module to cerditable for bonis) V (2) + S ()	Module title			Abbreviation		
Module coordination Module offered by holder of the Chair of Bloinformatics Faculty of Bloiology ECTS Method of grading Only after succ. compil. of module(s) 1 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents Advances and current results of bioinformatics are explained and discussed, this includes results from genome and sequence analysis, protein domains and protein families, large-scale data analysis (e. g. next generation sequences, proteomics data), analysis of different functional RNAs (e. g. miRNAs, IncRNAs). Intended learning outcomes Students are able to understand recent results in bioinformatics and discuss their implications. They have developed an advanced knowledge about typical techniques, scientific objectives and scientific questions. Courses (yee, number of weekly contact hours, language – if other than German Courses (yee, number of weekly contact hours, language – if other than German) V (2) + S (1) Module taught In: English Method of assessment (yee, scope, language – if other than German, examination offered – if not every senseter, information on whether module is creditable for boous) o) a) written examination (go to 6 on minutes, including multiple choice questions) or o) col a examination in groups of up to 3 candidate cack (so to 6 minutes) Gual examination of one candidate each (so to 6 minute	Topics in Bioinformatics				07-MS2TBI-152-m01	
holder Faculty of Biology ECTS Matter Sequer, or Matter Succ. comp L of module(s) 10 m Faculty of Biology 11 Sequerce Module Evert Other prerequisites Content gaduate Content Faculty of Biology, on the stand recent faculty of Biology, on the stand sequerce analysis (e.g., next generation sequences) Retroet Sequerce analysis, protein domains and protein families, large-scale data analysis (e.g., next generation sequerces) Students are able to understand recent results in bioinformatics and discuss their implications. They have despeaded typical techniques, scientific objectives and scientific questions. Courses Intervet with the information ing on pace and discuss their implications. They have despeaded typical techniques, scientific objectives and scientific questions. Courses Intervet with verse troens Intervet with verse semetre troens V > 2 > 5 U Intervet with retroens Intervet with retroens Students are dig	Module	coord	inator		Module offered by	
ECTS Method of grading Only after succ. compl. of module(s) 10 numerical grade Duration Module level Other prerequisites 1 graduate Advances and current results of bioinformatics are explained and discussed, this includes results from genome and sequence analysis, protein domains and protein families, large-scale data analysis (e.g. next generation sequences, proteomics data), analysis of different functional RNAs (e.g. miRNAs, IncRNAs). Intended learning outcomes	holder	of the (Chair of Bioinformatics		Faculty of Biology	
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Students are able to understand recent results in bioinformatics and discuss their implications. They have developed an advanced knowledge about typical techniques, scientific objectives and scientific questions. Courses (type, number of weekly contact hours, language – if other than German) Y (2) + S (1) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (30 to 60 minutes, including multiple choice questions) 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) 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 Additional information Workload 300 h Teaching cycle Module appears in Master's degree (1 major) Biology (2015) Master's degree (1 major) Biosciences (2013) Master's degree (1 major) Biosciences (2023) 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) Biosciences (2024) Master's degree (1 major) Biosciences (2024) Master's degree (1 major) FOKUS Life Sciences (2025)	Intende	ed leari	ning outcomes			
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Master's degree (1 major) Biosciences (2024) Master's degree (1 major) FOKUS Life Sciences (2025)	Master'	s degr	ee (1 major) Biosciences	(2023)		
Master's degree (1 major) FUKUS Life Sciences (2025)	Master'	s degr	ee (1 major) Biosciences	(2024)		
	Master	s degr	ee (1 major) FUKUS Life S	ciences (2025)		

Module title Abbreviation						
Plant Ec	Plant Ecology 07-MS31POEK-152-m01					
Module	coord	inator		Module offered by		
holder o gy	of the C	Chair of Ecophysiology a	and Vegetation Ecolo-	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	ts		-			
The lect (biogeo g. plant vel will experim address the Bota	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					
Intende	d learr	ning outcomes				
Particip in the c	ants a ontext	re able to identify and i of the current state of k	nterpret ecological and nowledge in these fiel	l ecophysiological in ds.	terrelations and to c	liscuss them
Courses	5 (type, n	umber of weekly contact hours	, language — if other than Ger	man)		
V (2) + S Module	S (1) taugh	t in: German and/or Eng	glish			
Method	l of ass	essment (type, scope, langu	uage — if other than German, o	examination offered — if no	t every semester, informati	ion on whether
module is	creditab	le for bonus)				
a) writte c) oral e d) oral e Langua	en exar examin examin ge of a	nination (30 to 60 minu ation of one candidate ation in groups of up to ssessment: German an	utes, including multiple each (30 to 60 minute 9 3 candidates (30 to 6 d/or English	e choice questions) o s) or o minutes)	Dr	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachin	ig cycl	e				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	appea	irs 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 with 1 major FOKUS Life Sciences (2015) Master's with 1 major FOKUS Life Sciences (2015) Master's with 1 major FOKUS Life Sciences (2015) Master's with 1 major FOKUS Life Sciences (2015)						
			ta record Maste	r (120 ECTS) FOKUS Life Scier	nces - 2015	

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)

Module title			Abbreviation		
Animal Ecology and Tropical Biology 2 B			07-MTÖ2B-152-m01		
Module	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)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
This mo focus is gical fea	odule p on the atures	rovides the fundamental e global significance of tr of these highly diverse b	s of the biology of tro opical systems (ecos iomes are also highli	pical habitats and tr ystem goods and eco ghted.	opical communities. A special osystem services), but the biolo-
Intende	d lear	ning outcomes			
The stu tropical the solu	dents v ecolog ution o	will acquire deep knowled gy. They will be qualified f current environmental r	dge of ecological theo to interpret scientific isks.	ories and up-to-date work and apply the	research issues in the field of knowledge they have acquired to
Courses	5 (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) Module	taugh	t in: English			
Method module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
c) oral e d) oral e Student Langua	examin examir ts will l ge of a	ation of one candidate en ation in groups of up to g be informed about the mo ssessment: German and,	ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco /or English	s) or o minutes) ope of the assessme	nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachin	ıg cycl	9			
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	ars in			
Master' Master' Master' Master' Master' Master' Supple	s degro s degro s teach mentar s degro s degro s teach mentar	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 ning degree Gymnasium I y course MINT Teacher Ec	5) ciences (2015) (2016) MINT Teacher Educati ducation PLUS, Elite I (2017) (2018) MINT Teacher Educati ducation PLUS, Elite I	ion PLUS, Elite Netwo Network Bavaria (ENI ion PLUS, Elite Netwo Network Bavaria (ENI	ork Bavaria (ENB) (2016) B) (2016) ork Bavaria (ENB) (2020) B) (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)

Module title					Abbreviation	
Animal Ecology and Tropical Biology 2					07-MS1TÖ2-152-m01	
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Animal Ecology a	nd Tropical Biology	Faculty of Biology		
FCTS Method of grading Only after succ compl. of module(s)			npl. of module(s)			
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 como	stor	graduate				
Conton	ster	glauuale				
			<u> </u>	• • • • • • •		
focus i gical fe	odule p s on the eatures	e global significance of tr of these highly diverse b	s of the biology of tro opical systems (ecos iomes are also highli	spical habitats and the stem goods and econg stem goods and econg steed.	osystem services), but the biolo-	
Intend	ed lear	ning outcomes				
The stu animal ve acqu	udents ecolog uired to	will acquire deep knowle y of the tropics. They will the solution of current e	dge of ecological the l be qualified to inter nvironmental risks.	ories and up-to-date oret scientific work a	research issues in the field of nd apply the knowledge they ha	
Course	S (type, r	number of weekly contact hours, I	anguage — if other than Ger	man)		
V (2) + Module	S (1) e taugh	t in: English				
Metho module is	d of ass s creditab	Sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
c) oral d) oral Studer Langua	examin examin examir nts will age of a	ation of one candidate e nation in groups of up to be informed about the m ssessment: German and	ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco /or English	s) or o minutes) ope of the assessme	nt prior to the course.	
Allocat	tion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
200 h						
Teachi	ng cycl	e				
		•				
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
Master	's degr	ee (1 maior) Biology (201	5)			
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master	Master's degree (1 major) Biosciences (2016)					
Master	's teac	ning degree Gymnasium	MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2016)	
Supple	ementa	ry course MINT Teacher E	ducation PLUS, Elite I	Network Bavaria (EN	B) (2016)	
Master	's degr	ee (1 major) Biosciences	(2017)			
Master	's degr	ee (1 major) Biosciences	(2018)			
Master Supple	's teacl ementa	hing degree Gymnasium ry course MINT Teacher E	MINT Teacher Educat ducation PLUS, Elite I	ion PLUS, Elite Netwo Network Bavaria (ENI	ork Bavaria (ENB) (2020) B) (2020)	
Master's w	vith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg •	generated 18-Apr-2025 • exa	am. reg. da- page 47 / 210	



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)

JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Master (120 ECTS) FOKUS Life Sciences - 2015

Module title					Abbreviation			
Biophysics and Biochemistry B					07-MS3BBB-152-mc)1		
Module	e coord	inator		Module offered by				
holder	holder of the Chair of Plant Physiology and Biophysics Faculty of Biology							
ECTS Method of grading Only after succ. compl. of module(s)								
5	(not) s	successfully completed						
Duratio	n	Module level	Other prerequisites	Other prerequisites				
1 seme	ster	graduate						
Conten	ts	5						
The mo and bic of parti opportu	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.							
Intende	ed lear	ning outcomes						
Studen sics, st context	ts are a ructura : of curi	able to use methods de l biology and biochem rent knowledge.	aling with soluble prot istry. They are able to ir	eins or membrane pr nterpret the data and	roteins in the fields o I to discuss the resul	of biophy- Its within the		
Course	S (type, r	umber of weekly contact hour	s, language — if other than Ger	rman)				
V (2) Module	e taugh	t in: English						
Methoo module is	d of ass creditab	s essment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	t every semester, informati	on on whether		
c) oral e d) oral Studen Langua	examin examir ts will ge of a	ation of one candidate ation in groups of up t be informed about the ssessment: German ar	each (30 to 60 minute o 3 candidates (30 to 6 method, length and sco id/or English	s) or o minutes) ope of the assessme	nt prior to the course	э.		
Allocat	ion of p	olaces						
Additio	nal inf	ormation						
Worklo	ad							
150 h								
Teachir	ıg cycl	e						
Referre	d to in	LPO I (examination regulati	ons for teaching-degree progra	mmes)				
Module	e appea	urs in						
Master	's degr	ee (1 major) Biology (20	015)					
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)							
Master	Master's degree (1 major) Biosciences (2016)							
Master'	's teacl	ning degree Gymnasiur	n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20)16)		
Supple Master	inentai	y course MINT Teacher	EUUCATION PLUS, EIITE I	Network Bavaria (ENI	b) (2016)			
Master	's degr	ee (1 major) Bioscience	(2017) (2018)					
Master	's teach	ning degree Gymnasiur	n MINT Teacher Educati	ion PLUS. Elite Netwo	ork Bavaria (ENB) (20	020)		
Supple	mentai	y course MINT Teacher	Education PLUS, Elite	Network Bavaria (ENI	B) (2020)	·		
Master's wi	th 1 majo	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	im. reg. da- nces - 2015	page 49 / 210		



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	
Biophysics and Biochemistry					07-MS3BB-152-m01	L
Module	e coord	inator		Module offered by		
holder	of the (Chair of Plant Physiology	and Biophysics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
The mo and bio of parti opporti	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.					
Intende	ed lear	ning outcomes				
Studen sics, st context	ts are a ructura t of cur	able to use methods dea l biology and biochemis rent knowledge.	ling with soluble prot try. They are able to ir	eins or membrane p nterpret the data and	roteins in the fields o I to discuss the resul	of biophy- lts within the
Course	S (type, r	number of weekly contact hours,	language — if other than Gei	rman)		
V (2) + Module	S (1) e taugh	t in: English				
Method module is	d of ass s creditab	sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
c) oral d) oral Studen Langua	examin examir ts will ge of a	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 ethod, length and sco /or English	s) or o minutes) ope of the assessme	nt prior to the course	e.
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	is for teaching-degree progra	immes)		
Module	e appea	urs in				
Master	Master's degree (1 major) Biology (2015)					
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master	's degr	ee (1 major) Biosciences	(2016)		and Davie (END) (
Master	'S teaci	ning degree Gymnasium N course MINT Teacher F	MINT Teacher Educat	ION PLUS, Ellte Netwo Network Bayaria (FNI	Drk Bavaria (ENB) (20 B) (2016)	016)
Master	's degr	ee (1 major) Biosciences	(2017)	Network Davalla (EN	(2010)	
Master	's degr	ee (1 major) Biosciences	(2018)			
Master	's teacl	ning degree Gymnasium	MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	020)
Supple	menta	y course MINT Teacher E	ducation PLUS, Elite	Network Bavaria (EN	B) (2020)	
Master's wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 51 / 210



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	
Cell and	Cell and Developmental Biology Master 2 07-MS2ZE2-152-mo1					
Module	coord	nator		Module offered by		
holder o logy	of the C	hair of Cell Biology and	Developmental Bio-	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	numer	ical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	ts					
The mod wicklun lecture portant sented. tic cell r within c ground-	dule cc gsbiold Signals as wel The to migrati hangir breaki	onsists of the lecture Sig ogie - Meilensteine und s and Differentiation do l as particularly interest pics range from classica on to molecular stem ce ng environments. In the ng publications in the fi	gnale und Differenzier Perspektiven (Milesto es not attempt to impa ing and important tren al developmental subj ell biology, epigenetic seminar Milestones a eld of developmental	ung (Signals and Diff nes and Perspectives art pure textbook kno nd-setting topics in d ects such as tissue r plasticity, origins of nd Perspectives of De biology are discusse	ferentiation) and the s of Developmental E owledge. Instead, his levelopmental biolog regeneration and mo multicellularity and evelopmental Biolog ed from an unusual p	seminar Ent- Biology). The storically im- gy are pre- rphogene- development y, classic point of view.
Intende	d learr	ning outcomes				
Particip tal biolo	ants po ogy and	ossess a knowledge of t d are able to put this int	he theoretical and mo o the broader context	olecular biological pr of cell and developm	inciples underlying on nental biology resear	developmen- rch.
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ger	rman)		
V (1) + S Module	5 (2) taught	t in: English				
Method module is	l of ass creditab	essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
a) writte c) oral e d) oral e Student Languag	en exar examin examin ts will b ge of a	nination (30 to 60 minu ation of one candidate ation in groups of up to be informed about the n ssessment: German and	tes, including multiple each (30 to 60 minute 3 candidates (30 to 6 nethod, length and sco d/or English	e choice questions) o s) or o minutes) ope of the assessme	or nt prior to the course	e.
Allocati	on of p	laces				
Additio	nal info	ormation				
 Worklos	ad		_			
200 h	40					
Teachin	g cycle	2	_			
	3 - ,					
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ammes)		
Module	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)						
Master's wit	th 1 major	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 53 / 210

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)

Module title				Abbreviation		
Cell and Developmental Biology Master 2 B 07-MZE2-B-152-m01					1	
Module	coord	inator		Module offered by		
holder o logy	of the C	Chair of Cell Biology and	d Developmental Bio-	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
3	(not) s	successfully completed		•		
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	te	Sidudic				
The lect knowled in deve regener multice	ture <i>Sig</i> dge. In lopmer ration a llularit	gnale und Differenzieru stead, historically impo ntal biology are presen and morphogenetic cell y and development wit	ng (Signals and Different ortant as well as particu ted. The topics range fr migration to molecula hin changing environm	entiation) does not at ularly interesting and om classical develop r stem cell biology, e ents.	ttempt to impart pure l important trend-set omental subjects suc pigenetic plasticity,	e textbook tting topics ch as tissue origins of
Intende	d learn	ning outcomes				
Particip tal biolo	ants p ogy and	ossess a knowledge of d are able to put this in	the theoretical and mo to the broader context	lecular biological pr of cell and developn	inciples underlying c nental biology resear	developmen- rch.
Courses	5 (type, n	umber of weekly contact hours	s, language — if other than Ger	rman)		
V (1) Module	taugh	t in: English				
Method module is	l of ass	e essment (type, scope, lang	uage — if other than German, o	examination offered — if no	t every semester, informati	on on whether
a) writte c) oral e d) oral e Student Langua	en exar examin examin ts will l ge of a	nination (30 to 60 mini ation of one candidate ation in groups of up to be informed about the ssessment: German an	ates, including multiple each (30 to 60 minute o 3 candidates (30 to 6 method, length and sco d/or English	e choice questions) (s) or o minutes) ope of the assessme	or nt prior to the course	2.
Allocal		JIALES				
Additio	nal info	ormation				
			_			
Worklo	ad					
90 h						
Teachin	ig cycl	9				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module appears in						
Master's degree (1 major) Biology (2015)						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master'	s degre	ee (1 major) Bioscience	s (2016)			
Master'	s degre	ee (1 major) Bioscience	s (2017)			
Master'	s degre	ee (1 major) Bioscience	S (2018) S (2024)			
waster	s aegre	ee (1 major) Bioscience	5 (2021 <i>)</i>			
Mactor	exchange program Biosciences (2022)					
Master's wit	th 1 major	FOKUS Life Sciences (2015)	JMU Würzburg •	generated 18-Apr-2025 • exa	am. reg. da-	page 55 / 210
			ta record Maste	r (120 ECTS) FOKUS Life Scier	nces - 2015	





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

Module title				Abbreviation		
Neurobiology F1					07-MS1NF1-152-m0	1
Module	e coord	inator		Module offered by		
holder	of the (Chair of Neurobiology a	nd Genetics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
10	nume	rical grade				
Duratio	'n	Module level	Other prerequisites	5		
1 seme	ster	graduate				
Conten	ts					
A curren special additio histoch stems a publica	nt topic isation n to a l nemistr are offe ation or	c in the field of neurobi s: molecular, clinical, c iterature search, a vari y, molecular biological ered. The experimental a seminar paper.	ology will be investiga ellular, developmenta ety of neurobiological techniques, clinical ar results will be docume	ted. The practical cou l or behavioural neur methods (for example nd neurogenetic tech nted and presented i	urse will be offered in robiology or in neuro e: electrophysiology niques) and differen in the form of a scier	n different genetics. In , immuno- t model sy- ntific talk, a
Intende	ed lear	ning outcomes				
The par knowle ground practice	rticipar dge an , gener e.	nts are able to conduct d skills (e. g. basic and ral and specific method	scientific research with advanced knowledge s) to carry out and doc	nin the field of neurol , special knowledge, ument neurobiologic	biology. They have a advanced methodol al experiments acco	cquired the ogical back- rding to best
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
P (14) + Module	· S (1) e taugh	t in: German and/or En	glish			
Methoo module is	d of ass creditab	Sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
a) writte b) log (c) oral e d) oral e e) prese Langua	en exal 15 to 30 examin examir entatio ge of a	mination (30 to 60 min o pages) or ation of one candidate nation in groups of up to n (20 to 45 minutes) ssessment: German an	utes, including multipl each (30 to 60 minute o 3 candidates (30 to 6 d/or English	e choice questions) o es) or 60 minutes) or	or	
Allocat	ion of J	olaces	<u>,</u> 0			
Additio	nal inf	ormation				
 Worklo	ad					
300 h						
Teachir	ng cvcl	e				
	0 .)					
Referre	d to in	IPOI (examination regulation		ammes)		
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 wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Mast	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 57 / 210



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) (20

Biophysics and Molecular Biotechnology B Module cordinator Module Cordinator Module Cordinator Module Cordinator Module Biotechnology and Biophysics Faculty of Biology CTTS Method G grading Only after succ. compL of module(s) numerical grade Duration Module Level Other prerequisites semester graduate Contents This lecture graduate Contents This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lecture discusses fundamental aspects of thermodynamics, kinetics and molecular interactions. The forst part of the lecture discusses fundamental aspects of thermodynamics, kinetics and molecular interactions. The forst part of the lecture discusses fundamental aspects of thermodynamics, kinetics and molecular interactions. The forst part of the lecture discusses fundamental aspects of thermodynamics, kinetics and molecular interactions. The oruse tenn moves on to discuss biophysical methods that facilitate the investigation of individual celles down to the level of single molecules. Focus is on electromanipulation and dielectric spectroscopy of cells, electrokinetic techni- ques, biomembranes, electrophysiology, ion channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Intended taught lin: English Method assessement dyne, scope, language – if other than Geman, examination differd – if not every sensetter, information on whether modules for bonavg a) or interestimation of go to do minutes, includites (oto 60 minutes) Students will be able to independently english Method of assessment type, scope, language – if other than Geman, examination differd – if not every sensetter, information on whether modules for datable for bonavg a) or interestimation of go to 60 minutes, includites (oto 60 minutes) Students will be able to independently english Method of assessment type, scope, language – if other than Geman, examination differd – if not every sensetter, information on whether module is f	Module title				Abbreviation		
Module coordinator Module offered by holder of the Chair of Biology and Biophysics Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) numerical grade Duration Module level Other prerequisites is semester graduate Contents This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lecture 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, electrokinetic techniques, biomembranes, electrophysicology, inor channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Interded learning outcomes Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently acquaint themselves with - biophysical mechanisms. Courses (type, number of weekly contact hours, language – if other than German) V(2) Module taught in: English Method of assessment (type, scope, language – if other than German) V(2) Oral examination of on candidate each (so to 6 minutes) or (so to 6 minutes) or (so ta 6 minutes) or (so ta 6 minutes) or (so	Biophy	Biophysics and Molecular Biotechnology B 07-MS2BTB-152-m01)1
holder of the Chair of Biotechnology and Biophysics Faculty of Biology ECTS Method of grading Only after succ. compl. of module(s) s numerical grade Module level Other prerequisites 1 semester graduate This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lecture 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 spectracocy of cells, electrokinetic techniques, biomembranes, electrophysiology, ion channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Interded Learning outcomes Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical mechanisms. Courses Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently acquaint themselves with - biophysical mechanisms. Courses Students will have acquired acknowledge of fundamental biophysical methods and their application on whether module of acsessment (yep, scope, language – if other than German) <t< td=""><td>Module</td><td>coord</td><td>inator</td><td></td><td>Module offered by</td><td></td><th></th></t<>	Module	coord	inator		Module offered by		
ECTS Metities or grading Only after succ. compl. of module(s) 5 numerical grad - Duraties Module level Other prequisites 5 graduate - Concertation Single molecules, focus is on electromany fulction and dielectric spectroscopy of cells, electrokinetic techniques, biomembranes, electrophysiology, ion channels, protein folding, single-molecule fluorescence methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with or, where metessary, will be able to independently acquaint themselves with - biophysical mechanism. Concertation - V (2) - Notice target in the sequence of the sequence of the sequence of the sequence of the secure second sequence of the sequence of the second sequence of the seco	holder	of the O	Chair of Biotechnology	and Biophysics	Faculty of Biology		
5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lecture 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, electrokinetic techniques, biomembranes, electrophysiology, ino channels, protein folding, single-molecule fluorescence methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical mechanisms. Courses type, number of weekly contact hours, language – if other than German V () Module taught in: English	ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
Duration Module level Other prerequisites 1 semester graduate Contents This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lecture 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, electrokinetic techniques, biomembranes, electrophysiology, ion channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Intended learning outcomes Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with -or, where necessary, will be able to independently acquaint themselves with - biophysical mechanisms. Courses (type, number of weekly contact hours, language – if other than German) V (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every sensiter, information on whether medule is information of one candidate each (30 to 60 minutes) or (2) oral examination of one candidate each (30 to 60 minutes) or (2) oral examination of places	5	nume	rical grade				
a semester graduate Contents This lecture provides a broad overview of biophysical techniques and their applications. The first part of the lecture 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, electrokinetic techni- ques, biomembranes, electrophysiology, ion channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Intended learning outcomes Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical methods. COURSE (type, number of weekly contact hours, language – if other than German) V (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 is creditable for bonus) a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) Courses (angle addition of a language of assessment prior to the course. Language of assessment tyre forman and/or English Allocation of places	Duratio	n	Module level	Other prerequisites			
Contents 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, electrokinetic techni- ques, biomembranes, electrophysiology, in on channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Intended learning outcomes Students will have acquired a knowledge of fundamental biophysical methods and their applications that will nable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical mechanisms. Courses (type, number of weekly contact hours, language – if other than German) V (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 is celltable for bonus) a) written examination of one candidate each (30 to 60 minutes) Cudents 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	1 semes	ster	graduate				
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 focurse 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, electrokinetic techni- ques, biomembranes, electrophysiology, ion channels, protein folding, single-molecule fluorescence methods and high-resolution as well as dynamic microscopy. Intended learning outcomes Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical mechanisms. Courses (type, number of weekly contact hours, language – if other than Geman) V (2) Module taught in: English Method of assessment (type, scope, language – if other than Geman, examination offered – if not every semester, information on whether module is conduble for bonus) a) written examination of one candidate each (30 to 60 minutes) or al examination of one candidate each (30 to 60 minutes) d) oral examination of one candidate each (30 to 60 minutes) C) oral examination of one candidate each (30 to 60 minutes) dudication of places 	Conten	ts	5	1			
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Students will have acquired a knowledge of fundamental biophysical methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical mechanisms. Courses (type, number of weekly contact hours, language – if other than German) V (2) Module taught in: English Method of assessment (type, scope, language – if other than German) V (2) a) written examination of so to ominutes, including multiple choice questions) 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) 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	Intende	ed learr	ning outcomes				
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Master's with 1 major FOKUS Life Sciences (2015) JMU Würzburg • generated 18-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) FOKUS Life Sciences - 2015 page 59 / 210	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)						
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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)

Module title				Abbreviation		
Biophysics and Molecular Biotechnology07-MS2BT-152-m01						
Module	e coord	inator		Module offered by		
holder	of the (Chair of Biotechnology a	nd Biophysics	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	i		
1 seme	ster	graduate				
Conten	ts					
This lea ture dis moves single r physiol dynam	cture processors on to d molecu logy, io ic micro	rovides a broad overview s fundamental aspects of liscuss biophysical meth les. Focus is on electror n channels, protein fold pscopy.	v of biophysical techn of thermodynamics, ki nods that facilitate the nanipulation and diele ling, single-molecule f	iques and their appli netics and molecular e investigation of ind ectric spectroscopy o luorescence method	ications. The first pa r interactions. The co ividual cells down to f cells, biomembran s and high-resolutio	rt of the lec- ourse then o the level of es, electro- n as well as
Intende	ed lear	ning outcomes	_			
Studen enable where i	ts will them t necess	have acquired a knowle o independently review ary, will be able to indep	dge of fundamental bi relevant literature. In pendently acquaint th	iophysical methods a addition, they will ha emselves with - biop	and their application ave become acquain hysical mechanisms	is that will ted with - or,
Course	S (type, r	number of weekly contact hours,	, language — if other than Ger	rman)		
V (2) + Module	S (1) e taugh	t in: English				
Method module is	d of ass creditab	sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
 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. 						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	ammes)		
Module appears in						
Master's degree (1 major) Biochemistry (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'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 wi	s uegr ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg •	generated 18-Apr-2025 • exa	ım. reg. da-	page 61 / 210
			ta record Maste	er (120 ECTS) FOKUS Life Scier	1Ces - 2015	



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

Module title				Abbreviation		
Behavio	3ehavioural Physiology and Sociobiology F1 07-MS1VF1-152-m01					
Module	coord	inator		Module offered by		
holder of the Chair of Behavioral Physiology and Sociobio- Faculty of Biology logy						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	ts					
Student the curr physiol ly analy Chair fo	ts will h rent top ogical, sed, su r availa	be integrated into one optics in the field of beha neurobiological and be ummarised in a scientif able topics and opport	of the research groups wioural physiology and ehavioural methods. Th fic report and presenter unities.	at the Chair and will I sociobiology. They ne results obtained v d in a talk. Please co	independently work will gain an insight in vill be graphically an ntact the research g	on one of nto the latest d statistical- roups at the
Intende	d learr	ning outcomes				
The stue sociobie scientif	dents a ology. ic audi	are able to independen In addition, they are ab ence.	tly perform scientific ex ole to process and docu	xperiments in the fie ument the results obt	ld of behavioural ph tained and to preser	ysiology and It them to a
Courses	5 (type, n	umber of weekly contact hours	s, language — if other than Ger	rman)		
P (14) + Module	S (1) taught	t in: German and/or En	glish			
Method module is	l of ass creditab	essment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	t every semester, informati	on on whether
a) writte b) log (1 c) oral e d) oral e e) prese Langua	en exar 15 to 30 examin examin entatio ge of a	nination (30 to 60 min o pages) or ation of one candidate ation in groups of up to n (20 to 45 minutes) ssessment: German an	utes, including multiple each (30 to 60 minute o 3 candidates (30 to 6 d/or English	s) or o minutes) or	or	
Allocati	on of p	olaces				
Additio	nal info	ormation				
 Worklo	ad					
300 h						
Teachin	g cvcl	9				
	3 -)	-				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
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 wit	th 1 major	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 63 / 210

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)

Module title				Abbreviation		
Cell and Developmental Biology F1					07-MS2ZEF1-152-m	01
Module	coord	inator		Module offered by		
holder o logy	of the (Chair of Cell Biology and	l Developmental Bio-	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
This 5 week full-time practical course provides an introduction to modern cell and developmental biology-related methods with a focus on bio-imaging techniques. A broad variety of model organisms is covered and the participants are encouraged to independently design and perform their own experiments. Participants use their acquired technological skills to analyse important basic biological processes. Large parts of this practical course are devoted to small projects, which should provide sustained insights into current research activities of the Chair. Interactions with Master's students, doctoral researchers and post-docs prepare participants for a working in a						
Intende	ed learr	ning outcomes				
The par logy and to perfo code of	ticipan d to inc orm and scient	ts are able to approach dependently implement d document cell and dev ific practice.	complex scientific qu acquired methodolog velopmental biology-re	estions in the fields ical tools to answer elated experiments,	of cell and developn these questions. The adhering to a genera	nental bio- ey are able Illy accepted
Courses	S (type, n	umber of weekly contact hours,	, language — if other than Ger	rman)		
P (14) + Module	S (1) taugh	t in: German and/or Eng	lish			
Method module is	l of ass creditab	s essment (type, scope, langu le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	on on whether
a) writte b) log (: c) oral e d) oral e e) prese Langua	en exar 15 to 30 examin examin entatio ge of a	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 and	ites, including multiple each (30 to 60 minute 3 candidates (30 to 6 d/or English	e choice questions) o s) or o minutes) or	or	
Allocati	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
300 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	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 wi	th 1 major	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 65 / 210

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)

Module title				Abbreviation		
Molecular Parasitology F1 07-MSPARF1-171-m01					01	
Module	coord	inator		Module offered by		
holder o logy	of the (Chair of Cell Biology and	Developmental Bio-	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	te	Sidduite	1			
This 5-w parasito perimer ses.	veek fu ology. I nts of t	ll-time practical course t introduces participant heir own. Participants u	provides an introduct s to a variety of paras se the skills they have	ion to modern metho ites and encourages e developed to analy	ods and concepts in them to design and se important biomec	molecular perform ex- dical proces-
Intende	ed leari	ning outcomes				
The par propriat les of g	ticipan te metl ood sc	its are able to perform s nods. They are able to a ientific practice.	cientific experiments ddress and document	n the field of molecu fundamental scienti	llar parasitology and fic questions, adher	to apply ap- ing to the ru-
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ge	rman)		
P (14) + Module	S (1) taugh	t in: German and/or Eng	lish			
Method module is	l of ass creditab	essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
a) writte b) log (1 c) oral e d) oral e e) prese Langua	en exar 15 to 30 examin examin entatio ge of a	mination (30 to 60 minu o pages) or ation of one candidate (lation 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 I/or English	e choice questions) o s) or o minutes) or	Dr	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachin	ng cycl	e				
	3 -)	-				
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	mmes)		
Module appears in						
Master'	s degr	ee (1 major) FOKUS Life	Sciences (2015)			
Master'	s degre	ee (1 major) Biosciences	(2017) (2018)			
Master	s degre	ee (1 major) Biosciences	(2010) (2021)			
Mastor	master's degree (1 major) Biosciences (2021) Master's degree (4 major) Biosciences (2022)					
Master's degree (1 major) Biosciences (2023) Master's degree (1 major) Biosciences (2024)						
			(
Master's wit	th 1 majoı	FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 67 / 210

Module title			Abbreviation			
Microbiology F1				07-MS2MF1-152-mc)1	
Module	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	ster	graduate				
Conten	ts		•			
Particip teractic lar biol niques	oants w ons wit ogy, m . Result	vill work independently o h the host. Participants w icrobiology, cellular biolo ts will be documented an	n a current research p vill employ a variety o ogy, and immunology nd discussed in a sem	project dealing with r f state-of-the-art me as well as data anal inar paper or an ora	nicrobial pathogens thods within the fiel ysis and literature re l presentation.	and their in- ds of molecu- search tech-
Intende	ed lear	ning outcomes				
Particip on biol	oants w ogy, pr	rill acquire the skills to ex operly document experin	xperimentally address nental results and ad	s scientific questions here to the standard	s in molecular biolog s of good scientific p	y and infecti- practice.
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
P (14) + Module	- S (1) e taugh	t in: German and/or Engl	ish			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	on on whether
 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) l anguage of assessment: German and/or English 						
Allocat	ion of _l	olaces				
Additio	nal inf	ormation	-			
The int	ernship	o must be completed full	time within a period	of 5 to 6 weeks.		
Worklo	ad					
300 h			-			
Teachi	ng cycl	е				
Teachir mester	ng cycle s.	e: Ongoing, after consult	ation with the superv	isor and registration	for both winter and	summer se-
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
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 teacl	hing degree Gymnasium	MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	020)
Master's wi	ith 1 majo	r FUKUS Lite Sciences (2015)	JMU Würzburg ● ta record Maste	generated 18-Apr-2025 • exa r (120 ECTS) FOKUS Life Scier	nm. reg. da- nces - 2015	page 68 / 210



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)

Module title			Abbreviation			
Systems Biology F1 07-MS3SYF1-152-m01					01	
Module coordinator Module offe			Module offered by			
holder	ofthe	Chair of Bioinformatics		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 pra ticular, protein namics ling).	actical o make structo of pro	course will provide stud students proficient in a ure analysis and proteir tein-protein interaction	ents with advanced in dynamical method in n folding, genome anal s, modelling cellular re	sights into a field of systems biology (are ysis and evolution; c gulation; modelling	systems biology and as that may be selec lynamic network ana metabolism, statisti	l will, in par- ted include alysis, the dy- cal model-
Intende	ed lear	ning outcomes				
Studen They ar ciples o	its have re able of good	e gained knowledge on to design scientific rese l scientific practice.	experimental setups a earch, to collect data a	nd methods used in nd to interpret them	the field of systems statistically, adherir	biology. Ig to the prin-
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
P (14) + Module	- S (1) e taugh	t in: German and/or En	glish			
Methoo module is	d of ass s creditab	Sessment (type, scope, lang ole for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
a) writt b) log (c) oral d) oral e) pres Langua	en exa 15 to 3 examin examir entatio ge of a	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	utes, including multipl each (30 to 60 minute 9 3 candidates (30 to 6 d/or English	e choice questions) o s) or o minutes) or	or	
Allocat	ion of _l	places				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	Δ				
וכמנווווא נארוב						
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) 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)						
Supple	menta	ry course MINT Teacher	Education PLUS, Elite	Network Bavaria (EN	B) (2016)	
Master's wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Maste	e generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 70 / 210

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

Module title					Abbreviation
Pharma	ceutica	al Biology and Metabolo	mics F1		07-MS3PBMF1-152-m01
Module	coordi	inator		Module offered by	
holder o	of the C	hair of Pharmaceutical B	iology	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	numer	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	s				
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 mass spectrometry is not required. Current scientific questions in the life sciences form the basis to impart scientific concepts and to 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-					
on of da	ata.	umbar of wookly contact hours		, 	· · ·
P (14) +	S (1)	the Course of the contact nours, is	anguage — II other than Ger		
Module	taught	t in: German and/or Engli	sn		
method module is	creditab	ESSMENT (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
 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 					
Allocati	on of p	olaces			
Additio	nal info	ormation			
Workloa	ad				
300 h					
Teachin	g cycle	9			
 Referree	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 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)

Module title			Abbreviation			
Computational Biology F1			07-MS3COBF1-152-1	m01		
Module	e coord	inator		Module offered by	_	
holder	of the (Chair of Bioinformatics		Faculty of Biology		
ECTS Method of grading Only after succ. compl. of modu			npl. of module(s)			
10	nume	rical grade				
Duratio	'n	Module level	Other prerequisites			
1 seme	ster	graduate				
Contents						
Detaile mics (s proteor netic ar a term	d insig equeno nics), t nalysis paper.	ht into methods in bioin ce-, domain analysis and opological and structura , protein structure analy	formatics; depending d annotation), omics c al analysis of biologica sis. Results are docun	on the topic selecte lata analysis (NGS, tr al interactions includ nented in the form of	d, fields covered inc ranscriptomics, meta ling statistical metho a presentation, a pr	lude: geno- abolomics, ods, phyloge- ublication or
Intende	ed lear	ning outcomes				
Studen are able scientif	ts have e to de fic prac	e gained knowledge on e sign experiments, collec tice.	experimental setups a t data and interpret th	nd methods used in nem statistically, adh	the field of bioinforr pering to the principl	natics. They es of good
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
P (14) + Module	· S (1) e taugh	t in: German and/or Eng	lish			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
a) writte b) log (c) oral e d) oral e) prese Langua	 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) 					
Allocat	ion of _l	olaces				
			_			
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	immes)		
			- Y			
Module	e appea	ars 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)						
muster 5 WI	an i maju		ta record Maste	er (120 ECTS) FOKUS Life Scier	1005 - 2015	puge /4 / 210



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)

Module title			Abbreviation			
Molecular Biology F1			07-MSF1-152-m01			
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Biologi	ie (Biology)	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
10 numerical grade						
Duratio	on .	Module level Other prerequisites				
1 seme	semester graduate					
Conten	ts	0	1			
Practical course on a topic in molecular biology. Students spend five weeks working on a small, well-defined scientific lab project and learn how to present their data. They learn to discuss their data in a seminar. The students learn to apply defined experimental procedures and methods, to independently address scientific questions and to document their experimental work in an appropriate manner.						
Intende	ed lear	ning outcomes				
Studen to trans their in	its have sfer the terpret	e reinforced previously ac oretical knowledge into ation and their presentat	cquired lab skills, acc experiments. Student tion.	uired new molecula is have gained exper	r lab techniques and tise in the analysis c	l learned how of raw data,
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
P (14) + Module	- S (1) e taugh	t in: German and/or Engl	lish			
Metho module is	d of ass s creditab	s essment (type, scope, langua ile for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
 b) log (c) oral d) oral e) pres Langua 	en exa 15 to 3 examin examir entatio ige of a	p ages) 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 /or English	s) or o minutes) or		
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	immes)		
				-		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biology (201	5)			
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) Biosciences (2016)						
Master's degree (1 major) Biosciences (2017)						
Master	Master's degree (1 major) Biosciences (2018)					
Master	Master's degree (1 major) Biosciences (2021)					
Master	Master's degree (1 major) Biosciences (2023)					
Master	S degr	ee (1 major) Biosciences	(2024)	generated 19 Apr 2025 - 200	am rag da	nage 76 / 240
Master S W	ian i majo	TI ONOS LITE SCIENCES (2015)	ta record Maste	er (120 ECTS) FOKUS Life Scier	nces - 2015	page /0 / 210

Module title				Abbreviation			
Physiol	logical	Plant Ecology F1			07-MS3PPEF1-152-n	101	
Module	coord	inator		Module offered by	Module offered by		
holder	of the (Chair of Plant Physiolog	y and Biophysics	Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)			
10	nume	rical grade					
Duratio	n	Module level	vel Other prerequisites				
1 semes	ster	graduate					
Conten	ts						
Under the guidance of an experienced scientist, students will work on a current research topic from the field of ecology/ecophysiology. Particular emphasis will be placed on the physiological bases of the interactions between 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 deepen their knowledge on applying special methods, in ecophysiology in particular but also in chemical analysis.							
Intende	ed lear	ning outcomes					
The par ply app siology	ticipar ropriat , adher	its are able to perform s e methods. They are al ring to the rules of good	scientific experiments so able to address and scientific practice.	in the field of physio d document question	logical plant ecology s in the field of ecolo	v and to ap- ogy/ecophy-	
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)			
P (14) + Module	S (1) taugh	t in: German and/or En	glish				
Method module is	l of ass creditab	sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informati	on on whether	
 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) 							
Allocati	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachir	ng cycl	e					
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)			
Module	appea	ars 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 wi	th 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Mast	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 77 / 210	

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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 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			
Molecu	lar and	Chemical Plant Ecolog	y F1		07-MS3MCPEF1-152	-m01
Module	coord	inator		Module offered by		
holder	of the O	Chair of Plant Physiolog	y and Biophysics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	o numerical grade					
Duration Module level Other prerequisites						
1 seme	ster	graduate				
Conten	ts					
Under the guidance of an experienced scientist, students will work on a current research topic from the field of molecular and chemical plant ecology. Particular emphasis will be placed on the molecular and chemical bases of the interactions between plants and abiotic and biotic environmental factors (e. g. cuticular barrier properties, plant-insect, and plant-fungus interactions). Working concepts and complex experiments will be designed, and the results will be documented and presented in the form of presentations, publications or logs. The participants will be involved in ongoing projects and will deepen their knowledge on applying special methods, in molecular biology in particular but also in chemical analysis.						
Intende	ed learn	ning outcomes				
The par and to a lar biole	ticipan apply a ogy/ch	ts are able to perform s ppropriate methods. Th emical ecology, adherir	cientific experiments ney are also able to ad ng to the rules of good	in the field of molecu dress and document scientific practice.	llar and chemical pla questions in the fie	ant ecology ld of molecu-
Course	5 (type, n	umber of weekly contact hours	, language — if other than Ge	rman)		
P (14) + Module	S (1) taugh	t in: German and/or Eng	glish			
Method module is	l of ass creditab	e essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
a) writte b) log (: c) oral e d) oral e e) prese Langua	en exar 15 to 30 examin examin entatio ge of a	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	ites, including multipl each (30 to 60 minute 9 3 candidates (30 to 6 d/or English	e choice questions) o s) or so minutes) or	or	
Allocat	ion of p	olaces				
 Additio	nal info	ormation				
Worklo	ad		_			
300 h						
Teachir	ng cycl	e				
Referre	d to in	LPOI (examination regulation	ns for teaching-degree progra	ammes)		
Module	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 wi	tn 1 major	FUKUS LIfe Sciences (2015)	JMU Würzburg ta record Maste	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 79 / 210





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)

Module title				Abbreviation			
Animal Ecology F1			07-MS1TÖF1-152-m	01			
Module	e coord	inator		Module offered by	Module offered by		
holder	of the (Chair of Animal Ecology	and Tropical Biology	Faculty of Biology			
ECTS Method of grading Only after succ. co			Only after succ. con	npl. of module(s)			
10 numerical grade							
Duratio	on	Module level	Other prerequisites				
1 semester graduate							
Conten	Contents						
This module consists of several exercises and a seminar series over the course of the entire semester. The exer- cises can be chosen from the following electives: 1. Wild and honeybee ecology (over the course of the seme- 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 in the habitat, identification and characteristics of different arthropod groups, field experiments. 3. Eco- logical modelling (block, 2 weeks): current methods of ecological processes modelling, simulation models, the students' own modelling project on current issues in ecology. 4. Agroecology (block, 1 week): insect communi- ties in agroecosystems, biological pest control in landscape context, evaluation of agri-environment schemes. 5. Forest ecology (block, 1 week): arthropod communities in forest ecosystems, methods of detection, influence of management on diversity patterns and functional groups. 6. Tropical ecology (block): small projects ecological or nature conservation-related issues to be implemented in a tropical ecosystem in East Africa. In the seminar, re- cent scientific publications on the topics covered in the modules listed above will be presented and discussed. Intended learning outcomes Students will have expanded their knowledge on ecological theories and current research issues in animal ecolo- gy. They will be able to design, perform, statistically analyse and interpret scientific research. They will be famili- ar with animal ecological methods and possible sources of error in data interpretation. They will have deepened their knowledge of the biology and ecology of important functional taxa of arthropods. Students will have acqui- red the knowledge and skills necessary to perform scientific activities in the context of an F2 practical course or a							
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)			
P (14) + Module	- S (1) e taugh	t in: German and/or En	glish				
Metho module is	d of ass s creditab	sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informati	ion on whether	
a) writt b) log (c) oral d) oral e) pres Langua	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						
Allocat	ion of _l	olaces					
Additio	onal inf	ormation					
Workload							
300 h							
Teachi	ng cycl	e					
Master's w	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scie	am. reg. da- nces - 2015	page 81 / 210	

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 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) 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)

Module title			Abbreviation			
Biophy	Biophysics and Molecular Biotechnology F1			07-MS2BTF1-152-m0	01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Biotechnology a	and Biophysics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10 numerical grade						
Duratio	Iration Module level Other prerequisites					
1 seme	1 semester graduate					
Conten	ts					
This pra method and mo tion flu	actical ds. Und olecular oresce	course provides studen ler expert guidance, stu r biotechnology, nano a nce microscopy, fluores	ts with an insight into dents will perform sele nd microsystems biote scence spectroscopy, a	different biotechnol ected experiments or echnology, biomateri analysis and electron	ogical and biophysic the following topics ials and biosensors, nanipulation of cells	al topics and s: cellular high-resolu-
Intende	ed lear	ning outcomes				
Students will have acquired a knowledge of fundamental biotechnological and biophysical methods and their applications that will enable them to independently review relevant literature. In addition, they will have become acquainted with - or, where necessary, will be able to independently acquaint themselves with - biophysical me- chanisms. Students will have acquired practical experience performing experiments, using a variety of scientific tools. In the seminar, students will have acquired detailed theoretical knowledge on these experiments and will have acquired practical experiments and states are a short presentation (as minutes) on one of the seminar.						
Course	S (type, n	number of weekly contact hours	, language — if other than Ge	rman)		
P (14) + Module	- S (1) e taugh	t in: German and/or En	glish			
Method	d of ass	sessment (type, scope, lang	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
module is	creditab	le for bonus)				
a) writt b) log (c) oral (d) oral e) prese Langua	en exar 15 to 30 examin examin entatio ge of a	mination (30 to 60 minu p pages) or ation of one candidate nation in groups of up to n (20 to 45 minutes) ssessment: German an	utes, including multipl each (30 to 60 minute 9 3 candidates (30 to 6 d/or English	e choice questions) (es) or 50 minutes) or	Dr	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
				······································		
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 wi	ith 1 majoi	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Maste	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 83 / 210

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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) (20

Module title				Abbreviation			
Biophy	sics of	Plant Membrane Prote	eins F1		07-MS3BPF1-152-m	01	
Module coordinator Module offere			Module offered by				
holder	ofthe	Chair of Plant Physiolog	gy and Biophysics	Faculty of Biology			
ECTS Method of grading Only after succ. compl. of module(s)			npl. of module(s)				
10	nume	rical grade	e				
Duratio	on	Module level	evel Other prerequisites				
1 seme	ster	graduate					
Conten	nts		I				
The mo nal cha rent to	odule p aracteri pics in	rovides an in-depth ins sation of plant membra molecular plant memb	ight into biophysical s ane proteins. The stude rane biology.	trategies and methoe ents will be integrate	ds which are used fo d into research proje	r the functio- ects on cur-	
Intend	ed lear	ning outcomes					
The stu protein	udents is, they	have knowledge of gen are able to independe	eral biophysical strate ntly work on related sc	gies and methods wi ientific issues and to	th a focus on plant r document the resul	nembrane lts obtained.	
Course	S (type, 1	number of weekly contact hour	s, language — if other than Ge	rman)			
P (14) + Module	⊦ S (1) e taugh	t in: German and/or En	glish				
Metho module is	d of as s creditat	s essment (type, scope, lang ble for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether	
c) oral d) oral e) pres Langua	examir examir entatio age of a	nation of one candidate nation in groups of up t on (20 to 45 minutes) issessment: German ar places	e each (30 to 60 minute o 3 candidates (30 to 6 nd/or English	es) or 50 minutes) or			
		armatian					
Additio		ormation					
Workle							
200 h							
Joon							
Teacin	ing cyci	C					
Deferre	d to in						
Kelene			ons for teaching-degree progra	ammes)			
Modul		arc in					
Master	's dear	ee (1 major) Biology (2)	215)				
Master	's degr	ee (1 major) Blotogy (20 ee (1 major) FOKUS Life	e 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	Master's degree (1 major) Biosciences (2017)						
Master's degree (1 major) Biosciences (2018) Master's teaching degree Gymnasium MINT Teacher Education DLUS, Elite Notwork Bayaria (ENB) (2020)							
Supple	ementa	ry course MINT Teacher	Education PLUS, Elite	Network Bavaria (EN	B) (2020)		
Master's w	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Mast	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scie	am. reg. da- nces - 2015	page 85 / 210	





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			Abbreviation			
Biochemistry and Structural Biology F1			07-MS3BSBF1-152-r	n01		
Module	e coord	inator		Module offered by		
holder of the Chair of Plant Physiology and Biophysics Faculty of Bi			Faculty of Biology			
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	0	1			
The mo logy. Th gy.	dule p ne stud	rovides an in-depth insig ents will be integrated ir	ht into strategies and to research projects	l methods in protein on current topics in t	biochemistry and st biochemistry and stru	ructural bio- uctural biolo-
Intende	ed lear	ning outcomes				
The stu logy wi indepe	idents th a foo ndently	have knowledge about g cus on membrane protei y and document the resu	eneral strategies and ns. They are able to po lts obtained.	methods of protein l erform and organise	piochemistry and str their scientific labor	uctural bio- atory work
Course	S (type, r	number of weekly contact hours,	language — if other than Gei	rman)		
P (14) + Module	· S (1) e taugh	t in: German and/or Eng	lish			
Methoo module is	d of ass s creditab	sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
 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 						
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
			0.00.00			
Module	e appea	ars in				
Master	's degr	ee (1 maior) Biology (201	5)			
Master	's degr	ee (1 major) FOKUS Life S	Sciences (2015)			
Master's degree (1 major) Biosciences (2016)						
Master	's teacl	ning degree Gymnasium	MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	016)
Supple	mentai	ry course MINT Teacher E	ducation PLUS, Elite	Network Bavaria (EN	B) (2016)	
Master	's degr	ee (1 major) Biosciences	(2017)			
Master	Master's degree (1 major) Biosciences (2018)					
waster	s teacl	ning degree Gymnasium	MINI leacher Educat	Ion PLUS, Elite Netwo	ргк Bavaria (ENB) (20 Р) (2020)	020)
Supple Master's wi	ith 1 maio	r FOKUS Life Sciences (2015)	JMU Würzburg •	generated 18-Apr-2025 • exa	DJ (2020) Im. reg. da-	page 87 / 210
	,0		ta record Maste	er (120 ECTS) FOKUS Life Scier	nces - 2015	, , , ,





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				Abbreviation	
Biochei	mistry,	Physiology and Genetics	s of Mammalian Cell	Culture	07-MSCC-152-m01
Module	coord	inator		Module offered by	
degree programme coordinator Biologie (Biology)			e (Biology)	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5 (not) successfully completed					
Duratio	n	Module level	Other prerequisites		
1 semester graduate					
Conten	ts				
Introdu tion, ge technol	ction to neratio ogies.	o cell culture, cell culture on of in vitro cell models a	lab equipment, cellu and their application	lar biochemistry and s, cell culture format	d cell structures, cell prolifera- s, fundamental cell analytical
Intende	ed learr	ning outcomes			
Studen able to	ts are a use the	ble to understand the biese techniques.	ochemistry, physiolo	gy and genetics of m	nammalian cell culture, and are
Course	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (3) Module	taugh	t in: English			
Methoo module is	l of ass creditab	essment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
 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) 					
Allocati	ion of r				
Allocal		naces			
Additio	nalinf	rmation			
Auditio	natini				
Worklo	ad				
150 h					
Teachir	ng cycl	9			
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)	
Module	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 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 degre	ee (1 major) Biosciences	(2024)		

Module title			Abbreviation			
Molecular Tumor Biology			07-TUM-MOL-152-m	101		
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Biolo	gie (Biology)	Faculty of Biology		
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	Other prerequisites		
1 seme	ster	graduate				
Conten	ts					
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.						
Intende	ed lear	ning outcomes				
Unders be used	tandin d addre	g of current topics and ess these challenges.	challenges in tumour r	esearch, understand	ing of the methods v	which could
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) Module	e taugh	t in: German and/or En	glish			
Methoo module is	d of ass creditab	Sessment (type, scope, lang ole for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
 c) oral examination (30 to 60 minutes), including multiple choice questions) of 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 						
Allocat	ion of _l	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h	-					
Teachiı	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biology (20	015)			
Master	's degr	ee (1 major) FOKUS Life	Sciences (2015)			
Master	Master's degree (1 major) Biosciences (2016)					
Master's degree (1 major) Biosciences (2017)						
Master	's degr	ee (1 major) Bioscience	s (2018)			
Master	's degr	ee (1 major) Bioscience	s (2021)			
exchan	ge pro	gram Biosciences (2022	2)			
Master	's degr	ee (1 major) Bioscience	s (2023)			
Master	Master's degree (1 major) Biosciences (2024)					
Master	's degr	ee (1 major) FOKUS Life	Sciences (2025)			
Master's wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg ta record Mast	• generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 90 / 210

Module title			Abbreviation			
Clinical Tumor Biology			07-TUM-CLIN-152-m	101		
Module	e coord	inator		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)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	Other prerequisites		
1 seme	ster	graduate				
Conten	ts	0				
In the lecture series <i>Klinische Tumorbiologie</i> (<i>Clinical Tumour Biology</i>), current clinical aspects will be addres- sed. Several tumour types will be discussed (such as tumours of the skin, lung, intestine, breast, blood). Additio- nal topics: diagnostics and pathology, different treatments and therapies and clinical trials.						
Intende	ed lear	ning outcomes				
Knowle ties and	dge of d limita	the similarities and dif itions of clinical medici	ferences of various tun ne.	nour types. Understa	nding of requiremen	ıts, possibili-
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) Module	e taugh	t in: German and/or En	glish			
Methoo module is	d of ass creditab	Sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
c) oral e d) oral Studen Langua	examin examir ts will ge of a	ation of one candidate nation in groups of up to be informed about the ssessment: German an	each (30 to 60 minute o 3 candidates (30 to 6 method, length and sc d/or English	s) or o minutes) ope of the assessme	nt prior to the cours	e.
Allocal		Jaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	immes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Biology (20	015) Sciences (2015)			
Master Master	's degr	ee (1 major) FORUS Life	s (2016)			
master's degree (1 major) Biosciences (2016) Master's degree (1 major) Biosciences (2017)						
Master's degree (1 major) Biosciences (2017) Master's degree (1 major) Biosciences (2018)						
Master	's degr	ee (1 major) Bioscience	s (2021)			
exchan	ge prog	gram Biosciences (202	2)			
Master	's degr	ee (1 major) Bioscience	s (2023)			
Master's degree (1 major) Biosciences (2024)						
Master	's degr	ee (1 major) FOKUS Life	Sciences (2025)			
Master's wi	ith 1 majo	r FOKUS Life Sciences (2015)	JMU Würzburg • ta record Maste	generated 18-Apr-2025 • exa er (120 ECTS) FOKUS Life Scier	am. reg. da- nces - 2015	page 91 / 210

Module title				Abbreviation	
Molecu	Molecular Neurobiology				03-MLSMN-152-m01
Module	coord	inator		Module offered by	
Dean of	f the Fa	culty of Biology	_	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			
Content	ts				
Current are pres	origina sented	al research papers and se and discussed in depth.	eminal background p	ublications from the	field of molecular neurobiology
Intende	ed learr	ning outcomes			
Student the con	ts are a text of	b to critically analyze ori the current ongoing rese	ginal research public arch in the field.	ations, present the r	main findings, and put them in
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) Module Method	taugh I of ass	t in: English t essment (type, scope, langua	ge — if other than German, 6	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes) oe informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachin	ng cycl	e			
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	irs in			
Master'	s degre	ee (1 major) FOKUS Life S	ciences (2015)		

Module title					Abbreviation	
Macron	nolecul	lar Crystallography			03-MLSCRY-152-m01	
Module	coord	inator		Module offered by		
Dean of	f the Fa	culty of Biology		Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
The prin be taug	nciples tht in th	of structure determination of structure determin	on of biological macr ation.	omolecules by mode	rn crystallography methods will	
Intende	ed learı	ning outcomes				
Studen niques.	ts are a	able to determine the stru	ictures of biological i	macromolecules by e	employing crystallographic tech-	
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (3) Module	taugh	t in: English				
Methoc module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
a) writte b) log (: c) oral e d) oral e e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or ation of one candidate es nation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h	150 h					
Teachir	Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	nrs in				
Master'	s degr	ee (1 major) FOKUS Life S	ciences (2015)			

Module title Abbrevia					Abbreviation
Clinical Medicine					03-MLSCMED-152-m01
Module	e coordi	inator		Module offered by	
Dean of	f the Fa	culty of Biology		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 seme	ster	graduate			
Conten	ts				
Lecture bed fro and 2.)	series m the v curren	focused on the interplay riewpoint of the clinician t challenges for basic and	between unmet med , followed by : 1.) a di d translational resear	ical needs and basic scussion of novel st ch. Topics vary every	c research. Diseases are descri- rategies to combat the disease y semester.
Intende	ed learr	ning outcomes			
Studen basic re	ts gain esearch	an awareness of current as well as the developm	challenges for basic tent of novel strategie	and translational res es in disease therapy	search, the clinical application of y.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) Module	e taugh	t in: English			
Method module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (2 c) oral e d) oral e e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will l 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) pe informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	rs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title					Abbreviation	
Molecular Techniques					03-MSMT-152-m01	
Module	coord	inator		Module offered by		
degree	progra	mme coordinator Biologi	e (Biology)	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
Introdu	ction to	o new and cutting edge m	olecular techniques	as well as methods f	for scientific investigation.	
Intende	ed learn	ning outcomes				
Studen strategi	ts are a es and	ble to apply molecular te experimental set-ups to	echniques and metho answer scientific que	ods as well as to inte estions.	grate these into experimental	
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (3) Module	taugh	t in: English				
Method module is	l of ass creditab	s essment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) log (: c) oral e d) oral e e) prese Langua	examin examin entatio ge of a	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 ⁄or English	s) or o minutes) or		
Allocat	ion of p	olaces				
		 !				
Additio	nat info	ormation				
 Worklo	- d					
workio	au					
Toochir		•				
Teacini	ig cycl	5				
 Doforro	d to in					
			s for teaching-degree progra	innes)		
Module	Module appears in					
Master'	s degre	ee (1 major) Biology (201	5)			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					
Master'	s degre	ee (1 major) Biosciences	(2016)			
Master'	s degre	ee (1 major) Biosciences	(2017)			
Master'	s degre	ee (1 major) Biosciences	(2018)			
Master'	s degre	ee (1 major) Biosciences	(2023)			
Master'	s degre	ee (1 major) Biosciences	(2024)			

Module title					Abbreviation
Clinical Neurobiology				03-MLSCN-152-m01	
Module	coord	inator		Module offered by	
Dean of	f the Fa	culty of Biology	_	Faculty of Medicine	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Introdu stems a	ction to is the f	o the anatomy, morpholo oundation for the unders	gy, cell biology and b tanding of relevant d	iophysics of the bra iseases.	in and the sensory and motor sy-
Intende	d learr	ning outcomes			
Student ses and of clinic	ts can i l are th cal neu	relate structure-function a us able to formulate new robiology.	aspects of neurons a hypotheses. Studen	nd their sensory and ts are prepared for ir	effector cells to relevant disea- ndependent research in the field
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) Module	taugh	t in: English			
Method module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar to to 30 examin examin entatio ts will b ge of a	nination (30 to 60 minuto pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) pe informed about the mo ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	appea	rs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation		
Biologi	cal Ma	cromolecules			03-MLSMAC-152-m01	
Module	coord	inator		Module offered by		
Dean of	f the Fa	culty of Biology		Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	ts					
The mo plied bi sion of	dule w iophysi the str	ill introduce students to t ical methods such as crys ucture and function of se	he foundations of ma stallography. The kno lected biological mad	acromolecular archit wledge acquired wil cromolecules.	ectures as well as frequently ap- l serve as a basis for the discus-	
Intende	ed leari	ning outcomes				
Student solutior	ts can n strate	understand general struc egies for problems in stru	ture-function relatior ctural biology, includ	nships of biological r ling the competence	nacromolecules and can develop to use in silico approaches.	
Courses	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) Module	taugh	t in: English				
Method module is	of ass creditab	sessment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will 1 ge of a	mination (30 to 60 minute o pages) or ation of one candidate ea nation in groups of up to <u>3</u> n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h	90 h					
Teachin	Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	nrs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Special Subject Lecture 1 (actual lectures to be specified)					07-MLSL1-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Cutting	edge t	opics in the life sciences	. Content varies each	semester.		
Intende	ed lear	ning outcomes				
Studen	ts gain	an overview of current to	pics in the life sciend	ces.		
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (5) Module	e taugh	t in: English				
Methoo module is	d of ass s creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) writt c) oral d) oral Studen Langua	en exai examin examir ts will l ige of a	nination (30 to 60 minut ation of one candidate e lation in groups of up to g be informed about the m ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (approx ethod, length and sco	e choice questions) (s) or . 30 to 60 minutes) ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces	,			
Additio	nal inf	ormation				
Consul	t Acade	emic Advisor				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title Abbreviation					Abbreviation	
Special Subject Lecture 1N (actual lectures to be specified) 07-N					07-MLSL1N-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Cutting	edge t	opics in the life sciences	. Content varies each	semester.		
Intende	ed leari	ning outcomes				
Studen	ts gain	an overview of current to	pics in the life sciend	ces.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (5)						
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte c) oral e d) oral Studen	en exar examin examin ts will l	mination (30 to 60 minut ation of one candidate e ation in groups of up to g be informed about the mo	es, including multiple ach (30 to 60 minutes 3 candidates (approx ethod, length and sco	e choice questions) (s) or . 30 to 60 minutes) ope of the assessme	or nt prior to the course.	
Langua	ge of a	ssessment: English				
Allocat	ion of p	olaces				
 Additio	nal inf	ormation				
Consult	t Acade					
Worklo	ad					
300 h						
Teachir	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title Abbrevia					Abbreviation	
Special Subject Lecture 2 (actual lectures to be specified)					07-MLSL2-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Present	tation a	and discussion of cutting	edge literature in the	field of life science	s.	
Intende	ed lear	ning outcomes				
Studen	ts are a	able to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.	
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (5)						
Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
module is	creditab	le for bonus)		1 1 X		
a) writt	en exai examin	nination (30 to 60 minut ation of one candidate e	es, including multiple	e choice questions) (or	
d) oral	examir	ation in groups of up to a	3 candidates (approx	. 30 to 60 minutes)		
Studen	ts will	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Langua	ge of a	ssessment: English				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Consul	t Acade	emic Advisor				
Worklo	ad					
300 h						
Teachiı	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title Abbreviation					Abbreviation	
Special Subject Lecture 2N (actual lectures to be specified)07-MLSL2N-152					07-MLSL2N-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Present	tation a	and discussion of cutting	edge literature in the	e field of life science	S.	
Intende	ed learı	ning outcomes				
Studen	ts are a	able to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
V (5)						
Module	e taugh	t in: English				
module is	creditab	;essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) writt	en exai	nination (30 to 60 minut	es, including multiple	e choice questions) o	or	
c) oral e	examın examin	ation of one candidate ea	ach (30 to 60 minute: 3 candidates (approx	s) or 30 to 60 minutes)		
Studen	ts will I	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Langua	ge of a	ssessment: English				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Consult	t Acade	emic Advisor				
Worklo	ad					
300 h						
Teachir	ıg cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in				
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title 4					Abbreviation	
Special Subject Lecture 3 (actual lectures to be specified) 07-MLSL3-152-1					07-MLSL3-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Current	t topics	in the field of life science	es, content varies ea	ch semester.		
Intende	ed lear	ning outcomes				
Studen	ıts gain	an overview of topics in	the field of life sciend	ces.		
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2)						
Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	s creditab	le for bonus)				
a) writt	en exai examin	nination (30 to 60 minut ation of one candidate e	es, including multiple	e choice questions) (or	
d) oral	examir	ation in groups of up to a	3 candidates (approx	. 30 to 60 minutes)		
Śtuden	ts will	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Langua	ige of a	ssessment: English				
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Consul	t Acade	emic Advisor				
Worklo	ad					
150 h	-					
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master	Master's degree (1 major) FOKUS Life Sciences (2015)					
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title Abbreviation					Abbreviation	
Special Subject Lecture 3N (actual lectures to be specified)o7-MLSL3N-152-mo1					07-MLSL3N-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Current	topics	in the field of life science	es, content varies ea	ch semester.		
Intende	ed leari	ning outcomes				
Studen	ts gain	an overview of topics in	the field of life sciend	ces.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2)						
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte c) oral e d) oral Studen	en exar examin examin ts will l ge of a	nination (30 to 60 minut ation of one candidate e ation in groups of up to g be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (approx ethod, length and sco	e choice questions) (s) or . 30 to 60 minutes) ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Consult	t Acade	emic Advisor				
Worklo	ad					
150 h						
Teachir	ıg cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title Abbreviation					Abbreviation	
Special Subject Lecture 4 (actual lectures to be specified)					07-MLSL4-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Cutting	edge l	iterature in the field of lif	e sciences.			
Intende	ed lear	ning outcomes				
Studen	ts are a	able to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (2)						
Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)				
c) oral e	en exal examin	ation of one candidate e	ach (30 to 60 minute	s) or		
d) oral	examir	ation in groups of up to	3 candidates (approx	. 30 to 60 minutes)		
Studen	ts will	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Langua	ge or a					
Allocat	ion of p	Diaces				
Additio						
Consul	t Acade	emic Advisor				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title					Abbreviation	
Special Subject Lecture 4N (actual lectures to be specified) o7-MLSL4N-15					07-MLSL4N-152-m01	
Module coordinator				Module offered by		
Dean of Studies Biologie (Biology)				Faculty of Biology		
ECTS	TS Method of grading Only after succ. con			ıpl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1-2 sem	nester	graduate	Please consult with course advisory service in advance.			
Conten	ts					
Cutting	edge l	iterature in the field of lif	e sciences.			
Intende	ed learr	ning outcomes				
Studen	ts are a	ble to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2)						
Module	e taugh	t in: English				
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
a) writt	en exar	nination (30 to 60 minut	es, including multiple	e choice questions) (or	
d) oral e	examin examin	ation of one candidate ea	ach (30 to 60 minute: 3 candidates (approx	s) or 30 to 60 minutes)		
Studen	ts will l	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Language of assessment: English						
Allocation of places						
Additional information						
Consult Academic Advisor						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title					Abbreviation	
Special Subject Lecture 5 (actual lectures to be specified) 07-MLSL5-152-m					07-MLSL5-152-m01	
Module coordinator				Module offered by		
Dean of Studies Biologie (Biology)				Faculty of Biology		
ECTS	TS Method of grading Only after succ. co		Only after succ. com	npl. of module(s)		
3	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with course advisory service in advance.			
Conten	ts					
Current	topics	in the field of life science	es.			
Intende	ed leari	ning outcomes				
Studen	ts gain	an overview of current to	pics in the life sciend	ces.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (1)						
Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)				
a) writte	en exai examin	nination (30 to 60 minut ation of one candidate e	es, including multiple	e choice questions) (or	
d) oral	examin	ation in groups of up to a	3 candidates (approx	. 30 to 60 minutes)		
Studen	ts will I	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Langua	ge of a	ssessment: English				
Allocation of places						
Additional information						
Consult Academic Advisor						
Workload						
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module	Module title Abbreviation					
Special Subject Lecture 5N (actual lectures to be specified) 07-MLSL5N-152-m01					07-MLSL5N-152-m01	
Module coordinator				Module offered by		
Dean of Studies Biologie (Biology)				Faculty of Biology		
ECTS	S Method of grading Only after succ. compl. of module(s)					
3	nume	rical grade				
Duratio	Duration Module level		Other prerequisites			
1 semester graduate		graduate	Please consult with course advisory service in advance.			
Conten	ts					
Current	topics	in the field of life science	es.			
Intende	ed learr	ning outcomes				
Studen	ts gain	an overview of current to	pics in the life sciend	ces.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (1)						
Module	e taugh	t in: English				
Method module is	creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
 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 (approx. 30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. 						
Allocation of places						
Additional information						
Consult	t Acade	emic Advisor				
Workload						
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title					Abbreviation	
Special Subject Lecture 6 (actual lectures to be specified) o7-MLSL6-152-m					07-MLSL6-152-m01	
Module coordinator				Module offered by		
Dean of Studies Biologie (Biology)				Faculty of Biology		
ECTS	TS Method of grading Only after succ. co		Only after succ. com	npl. of module(s)		
3	(not) s	successfully completed				
Duration Module level		Other prerequisites				
1 seme	ster	graduate	Please consult with course advisory service in advance.			
Conten	ts					
Current	topics	in the field of life science	es.			
Intende	ed leari	ning outcomes				
Studen	ts gain	an overview of current to	pics in the life sciend	ces.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
V (1)						
Module	taugh	t in: English				
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)	• • • • • •	1 · · · · · · · · · · · · · · · · · · ·		
a) writte	en exar examin	nination (30 to 60 minute ation of one candidate e	es, including multiple	e choice questions) (s) or	or	
d) oral	examin	ation in groups of up to g	3 candidates (approx	. 30 to 60 minutes)		
Studen	ts will I	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.	
Langua	ge of a	ssessment: English				
Allocation of places						
Additional information						
Consult Academic Advisor						
Workload						
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) FOKUS Life Sciences (2025)						
Module title					Abbreviation	
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Special Subject Lecture 6N (actual lectures to be specified)					07-MLSL6N-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Cutting	edge t	opics in the life sciences	. Content varies each	semester.		
Intende	ed learn	ning outcomes				
Studen	ts are a	ble to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (1)						
Module	taugh	t in: English				
Methoo module is	creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte c) oral e	en exar examin	nination (30 to 60 minut ation of one candidate ea	es, including multiple ach (30 to 60 minute	e choice questions) (s) or	or	
d) oral	examin	ation in groups of up to	3 candidates (approx	. 30 to 60 minutes)		
Studen	ts will l	be informed about the mo	ethod, length and sco	ope of the assessme	nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Consult	t Acade	emic Advisor				
Worklo	ad					
90 h						
Teachir	ng cycl	9				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in				
Master	s degre	ee (1 major) FOKUS Life S	ciences (2015)			
Master's degree (1 major) FOKUS Life Sciences (2025)						

Module title					Abbreviation
Special Subject Lecture 7N (actual lectures to be specified)					07-MLSL7N-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Cutting	edge t	opics in the life sciences	. Content varies each	semester.	
Intende	ed leari	ning outcomes			
Studen	ts are a	able to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3)					
Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writte c) oral e	en exaı examin	nination (30 to 60 minut ation of one candidate ea	es, including multiple ach (30 to 60 minute	e choice questions) (s) or	or
d) oral	examin	ation in groups of up to	3 candidates (approx	. 30 to 60 minutes)	
Studen Langua	ts will i ge of a	ssessment: English	ethod, length and sco	ope of the assessme	nt prior to the course.
Allocat	ion of p	places			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
300 h					
Teachir	ıg cycl	е			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
Master	Master's degree (1 major) FOKUS Life Sciences (2025)				

Module title					Abbreviation
Special Subject Lecture 8N (actual lectures to be specified)					07-MLSL8N-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studio	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1-2 sem	nester	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Cutting	edge t	opics in the life sciences	. Content varies each	semester.	
Intende	ed leari	ning outcomes			
Studen	ts are a	able to understand, prese	ent and critically disc	uss cutting edge lite	rature in the field of life sciences.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3)					
Module	e taugh	t in: English			
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
a) writte	en exai evamin	nination (30 to 60 minut ation of one candidate e	es, including multiple	e choice questions) (or
d) oral	examin	ation in groups of up to a	3 candidates (approx	. 30 to 60 minutes)	
Studen	ts will I	be informed about the m	ethod, length and sco	ope of the assessme	nt prior to the course.
Langua	ge of a	ssessment: English			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
300 h					
Teachir	ng cycl	e			
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	e appea	ars in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
Master's degree (1 major) FOKUS Life Sciences (2025)					

Module title					Abbreviation
Congress Participation 3 (Poster)				07-MLSM3-152-m01	
Module	e coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(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				
Design	and pr	esentation of a poster de	scribing research pro	oject results.	
Intende	ed learı	ning outcomes			
Poster o regardi	design, ng exp	oral presentation of reseriment design and inter	earch project results/ pretation of results.	abstract thereof, ab	ility to answer specific questions
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
f) poste Langua	er in aco ge of a	cordance with conference ssessment: English	e specifications		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
90 h					
Teachir	ıg cycl	e			
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	e appea	irs in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
Master	Master's degree (1 major) FOKUS Life Sciences (2025)				

Module title					Abbreviation
Congress Participation 4 (Poster) 2				07-MLSM4-152-m01	
Module	e coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(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				
Design	and pr	esentation of a poster de	scribing research pro	oject results.	
Intende	ed learı	ning outcomes			
Poster o regardi	design, ng exp	, oral presentation of rese eriment design and inter	earch project results/ pretation of results.	abstract thereof, ab	ility to answer specific questions
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
f) poste Langua	er in aco ge of a	cordance with conference ssessment: English	e specifications		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
90 h					
Teachir	ıg cycl	e			
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
	-				
Module	e appea	irs in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
Master	Master's degree (1 major) FOKUS Life Sciences (2025)				

Module title				Abbreviation	
Congress Participation 3 (Talk) 1				07-MLSMT3-152-m01	
Module coordinator				Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	(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				
Design	and pr	esentation of a talk desc	ribing research proje	ct results.	
Intende	ed learn	ning outcomes			
Concep present questio	otualisa t currer ons rega	ition of a scientific talk, p it data, oral presentation arding experiment desigr	preparation of a ppt p of research project ro and interpretation o	resentation/individu esults/abstract there f results.	ual slides, design of figures to eof, ability to answer specific
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	irs in			
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation	
Congress Participation 4 (Talk) 2					07-MLSMT4-152-m01
Module	Module coordinator			Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	(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				
Design	and pr	esentation of a talk desc	ribing research proje	ct results.	
Intende	ed learn	ning outcomes			
Concep present questio	otualisa t currer ons rega	tion of a scientific talk, p it data, oral presentation arding experiment desigr	preparation of a ppt p of research project r n and interpretation o	resentation/individu esults/abstract there f results.	ual slides, design of figures to eof, ability to answer specific
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	irs in			
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Internship 1				07-MLSEP1-152-m01	
Module	coord	inator		Module offered by	
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(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				
Researd selecte	ch expe d. The	erience abroad in agencie practical course has to ha	es, institutes or indus ave a duration of no l	try. Topics will vary a ess than 5 weeks.	according to the individual place
Intende	ed lear	ning outcomes			
Studen [.] experie	ts are f nce.	amiliar with the structure	es of agencies, resear	ch institutes and inc	dustry and have gained practical
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	e taugh	t in: English			
Methoo module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writte b) log (: c) oral e d) oral e e) prese Studen Langua	en exai 10 to 3 examin examir entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or lation of one candidate en lation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) (s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	places			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
300 h					
Teachir	Teaching cycle				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	appea	ars in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title Abbreviation				Abbreviation	
Internship 2				07-MLSEP2-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Researd selecte	ch expe d. The	erience abroad in agencie practical course has to h	es, institutes or indus ave a duration of no l	try. Topics will vary a ess than 5 weeks.	according to the individual place
Intende	ed lear	ning outcomes			
Studen experie	ts are f nce.	amiliar with the structure	es of agencies, resear	ch institutes and inc	dustry and have gained practical
Courses	5 (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module Method	taugh I of ass	t in: English :essment (type. scope. langua	ge — if other than German. 6	examination offered — if no	ot every semester, information on whether
module is	creditab	le for bonus)			,,
a) writte b) log (c) oral e d) oral e e) prese Student Langua	en exai 10 to 3 examin examir entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to 3 n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Consult	Acade	emic Advisor			
Worklo	ad				
300 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	appea	nrs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Internship 3				07-MLSEP3N-152-m01	
Module	coord	inator		Module offered by	
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Researd selecte	ch expe d. The	erience abroad in agencie practical course has to ha	es, institutes or indus ave a duration of no l	try. Topics will vary a ess than 5 weeks.	according to the individual place
Intende	ed lear	ning outcomes			
Studen experie	ts are f nce.	amiliar with the structure	es of agencies, resear	ch institutes and inc	dustry and have gained practical
Courses	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	e taugh	t in: English			
Method module is	of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exai 10 to 3 examin examir entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
300 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	appea	ars in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Internship 4			07-MLSEP4N-152-m01		
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Researd selecte	ch expe d. The	erience abroad in agencie practical course has to ha	es, institutes or indus ave a duration of no l	try. Topics will vary a ess than 5 weeks.	according to the individual place
Intende	ed leari	ning outcomes			
Studen experie	ts are f nce.	amiliar with the structure	es of agencies, resear	ch institutes and inc	dustry and have gained practical
Courses	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English			
Method module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Consult	Acade	emic Advisor			
Worklo	ad				
300 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	appea	ars in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation			
Excursion 1				07-MLSEX1-152-m01		
Module	coord	inator		Module offered by		
Dean of	fStudi	es Biologie (Biology)	-	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Topic of area of	f the fie integra	eld trip will vary accordin ative biology. The field tri	g to the company or i p should have a dura	nstitute visited and t tion of 2-5 days.	may include field work in the	
Intende	ed leari	ning outcomes				
This mo or to lea	odule w arn hov	vill provide students with w to collect data in the fie	an opportunity to for eld.	ge links with industr	ry and potential employers and/	
Courses	5 (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
E (8) Module	taugh	t in: English				
Method module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 3 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate ea nation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Consult	Acade	emic Advisor				
Worklo	ad					
150 h	150 h					
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	appea	urs in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title			Abbreviation			
Excursion 2				07-MLSEX2-152-m01		
Module	coord	inator		Module offered by		
Dean of	fStudi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Topic of area of	f the fio integra	eld trip will vary accordin ative biology. The field tri	g to the company or i p should have a dura	nstitute visited and tion of 2-5 days.	may include field work in the	
Intende	ed lear	ning outcomes				
This mo or to lea	odule w arn hov	vill provide students with w to collect data in the fie	an opportunity to for eld.	ge links with industi	y and potential employers and/	
Courses	5 (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
E (8) Module	taugh	t in: English				
Method module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exai 10 to 3 examin examir entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or lation of one candidate ea nation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Consult	Acade	emic Advisor				
Worklo	ad					
300 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	appea	ars in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation		
Excursion 3					07-MLSEX3N-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudi	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Topic o area of	f the fi integra	eld trip will vary according ative biology. The field tri	g to the company or i p should have a dura	nstitute visited and tion of 2-5 days.	may include field work in the	
Intende	ed lear	ning outcomes				
This mo or to lea	odule w arn hov	<i>v</i> ill provide students with v to collect data in the fie	an opportunity to for eld.	ge links with industi	ry and potential employers and/	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
E (8) Module	e taugh	t in: English				
Methoc module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (: c) oral e d) oral e e) prese Studen Langua	en exai 10 to 3 examin examir entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or ation of one candidate es nation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Consult	t Acade	emic Advisor				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation		
Excursion 4					07-MLSEX4N-152-m01	
Module	coord	inator		Module offered by		
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.	
Conten	ts					
Topic o area of	f the fie integra	eld trip will vary accordin ative biology. The field tri	g to the company or i p should have a dura	nstitute visited and tion of 2-5 days.	may include field work in the	
Intende	ed lear	ning outcomes				
This mo or to lea	odule w arn hov	<i>v</i> ill provide students with w to collect data in the fie	an opportunity to for eld.	ge links with industi	ry and potential employers and/	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
E (8) Module	taugh	t in: English				
Methoc module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (: c) oral e d) oral e e) prese Studen Langua	en exai 10 to 3 examin examir entatio ts will 1 ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Consult	t Acade	emic Advisor				
Worklo	ad					
300 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	appea	ins in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Special Training Program GSLS 1					07-MLSTP1-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(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				
Transfe	rable s	kills tutorial: scientific w	riting and (oral) prese	entation skills.	
Intende	ed lear	ning outcomes			
The stu	dents	oossess scientific writing	and (oral) presentati	on skills.	
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
T (3) Module	e taugh	t in: English			
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	s creditab	le for bonus)			
a) writt b) log (c) oral d) oral e) prese Studen Langua	en exal 10 to 3 examin examir entatio ts will ge of a	nination (30 to 60 minut o pages) or ation of one candidate e lation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Consul	t Acade	emic Advisor			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Special Training Program GSLS 2					07-MLSTP2-152-m01
Module	e coord	inator		Module offered by	
Dean o	fStudi	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(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				
Transfe	erable s	kills tutorial: patent law.			
Intende	ed lear	ning outcomes			
Studen	its have	e developed an understar	nding of the fundame	ntal principles of pa	tent law.
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
T (3) Module	e taugh	t in: English			
Metho module is	d of ass s creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writt b) log (c) oral d) oral e) pres Studen Langua	ien exan (10 to 3) examin examir entatio nts will l age of a	nination (30 to 60 minut o pages) or ation of one candidate e lation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Consul	t Acade	emic Advisor			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Special Training Program GSLS 3 07-MLS					07-MLSTP3-152-m01
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology	
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 seme	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Transfe on.	rable s	kills tutorial: business et	iquette, team buildir	g and negotiation sl	kills or intercultural communicati-
Intende	ed leari	ning outcomes			
Studen [.] commu	ts have nicatio	e acquired skills in the aro	ea of business etique	tte, team building a	nd negotiation or intercultural
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
T (3) Module	taugh	t in: English			
Method	l of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
a) writte b) log (: c) oral e d) oral e e) prese Studen Langua	en exar 10 to 3 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate e nation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Consult	t Acade	emic Advisor			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation	
Responsible Conduct of Research 1					07-MLSRR1-152-m01
Module	coord	inator		Module offered by	
Dean of	Studie	es Biologie (Biology)		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 semes	ster	graduate			
Content	ts				
Respon tions to biosafe	sible a this eı ty and	nd ethical conduct of res nd, information on natior risks.	earch, content and ir al and international	nportance of complia authorities regulatin	ance with international regula- g rules of conduct of research,
Intende	d lear	ning outcomes			
Students meet the academic requirements/possess the knowledge and skills required of a biosafety officer. They have developed an awareness of critical elements in quality management and quality control in research labs. Students know national and international authorities that are responsible for the regulation and control of good scientific conduct and ethical questions involving, in particular, genetically modified organisms. Students understand crucial elements of responsible and ethical conduct of research as well as the consequences of a violation of those rules.					
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) Module	taugh	t in: English			
Method module is	l of ass creditab	e essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar to to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes) pe informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
 Additio	nal info	ormation			
Consult	Acade	emic Advisor			
Worklo	ad				
60 h					
Teaching cycle					
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	irs in			
Master' Master'	s degre	ee (1 major) Experimental ee (1 major) FOKUS Life S	medicine (2015)		
master	Master 5 degree (1 major) rokos Lite Sciences (2015)				

Module title				Abbreviation	
Tutorial 1				07-MLSTU1-152-m01	
Module	coord	inator		Module offered by	
degree	progra	mme coordinator Master	Life Sciences	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Student in the d ses.	ts work egree	as tutors (expenditure o programmes and are invo	f time: approximately lved in the organisat	y 90 working hours). ion and planning of	They support teaching activities lectures, seminars and lab cour-
Intende	ed leari	ning outcomes			
The tuto organis	ors are e and j	able to communicate cor plan (important elements	nplex topics. They ar of) their projects and	e able to lead studer d of the projects of th	nts or groups. They know how to ne students they mentor.
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
T (2) Module	taugh	t in: English			
Method module is	l of ass creditab	s essment (type, scope, langua ₎ le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will 1 ge of a	mination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Consult	Acade	emic Advisor			
Worklo	ad				
90 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)	
Module	appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Tutorial 2				07-MLSTU2-152-m01	
Module	coord	inator		Module offered by	
degree	progra	mme coordinator Master	Life Sciences	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.
Conten	ts				
Student in the d ses.	ts work egree	as tutors (expenditure o programmes and are invo	f time: approximately lved in the organisat	y 150 working hours) ion and planning of	. They support teaching activities lectures, seminars and lab cour-
Intende	d learı	ning outcomes			
The tuto organis	ors are e and j	able to communicate cor plan (important elements	nplex topics. They ar of) their projects and	e able to lead studer d of the projects of th	nts or groups. They know how to ne students they mentor.
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
T (3) Module	taugh	t in: English			
Method module is	l of ass creditab	s essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar to to 30 examin examin entatio ts will 1 ge of a	mination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Consult	Acade	emic Advisor			
Worklo	ad				
150 h					
Teachin	ıg cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	Module appears in				
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Responsible Conduct of Research 2					07-MLSRR2-152-m01
Module	coord	inator		Module offered by	
Dean of	Studie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.
Content	ts				
Quality a.) scier pretatio	manag ntific p on of ra	gement and quality contro ublication - definition of w data and c.) planning o	ol in research labs. A plagiarism and relate of experiments and se	pplication of the rule d violations - b.) eva cientific controls.	es of good scientific practice to aluation, presentation, and inter-
Intende	d learr	ning outcomes			
Students meet the academic requirements/possess the knowledge and skills required of a biosafety officer. They have developed an awareness of critical elements in quality management and quality control in research labs. Students know national and international authorities that are responsible for the regulation and control of good scientific conduct and ethical questions involving, in particular, genetically modified organisms. Students understand crucial elements of responsible and ethical conduct of research as well as the consequences of a					
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	taugh	t in: English			
Method module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Languag	en exar to to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	on of p	olaces			
Additio	nal inf	ormation			
Consult	Acade	emic Advisor			
Workload					
120 h					
Teachin	ig cycl	e			
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)	
Module	appea	in and a second s			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation		
Responsible Conduct of Research 3					07-MLSRR3-152-m01	
Module	coord	inator		Module offered by		
Dean of	Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate	Please consult with	course advisory serv	vice in advance.	
Content	ts					
Quality a.) scier pretatio	manag ntific p on of ra	gement and quality contro ublication - definition of w data and c.) planning o	ol in research labs. A plagiarism and relate of experiments and se	pplication of the rule d violations - b.) eva cientific controls.	es of good scientific practice to aluation, presentation, and inter-	
Intende	d learr	ning outcomes				
Student They ha labs. St good so underst violatio	Students meet the academic requirements/possess the knowledge and skills required of a biosafety officer. They have developed an awareness of critical elements in quality management and quality control in research labs. Students know national and international authorities that are responsible for the regulation and control of good scientific conduct and ethical questions involving, in particular, genetically modified organisms. Students understand crucial elements of responsible and ethical conduct of research as well as the consequences of a					
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (3) Module	taugh	t in: English				
Method module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (2 c) oral e d) oral e e) prese Student Langua	en exar to to 30 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	on of p	olaces				
Additio	nal info	ormation				
Consult	Acade	emic Advisor				
Workload						
180 h						
Teachin	ig cycl	e				
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)		
Module	appea	ins in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					



Module Group - GSLS-Section Neurosciences

(ECTS credits)

Module title					Abbreviation
Research Group Seminar Neurosciences 1					07-MLSRG-NS1-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Current bers, ex	: progre xchang	ess in the research group e of experiences, trouble	presentation and di shooting tips.	scussion of the resu	lts of all research group mem-
Intende	ed lear	ning outcomes			
Studen trouble	ts have shootii	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) pres Langua	entatio ge of a	n (20 to 45 minutes) ssessment: English			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module appears in					
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		
Master	Master's degree (1 major) Translational Neuroscience (2015)				
Master	's degr	ee (1 major) Translational	Neuroscience (2017))	
Master	's degr	ee (1 major) Translational	Neuroscience (2018))	
Master's degree (1 major) Translational Neuroscience (2022)					

Module title					Abbreviation		
Resear	ch Grou	ıp Seminar Neuroscience	07-MLSRG-NS2N-152-m01				
Module	e coord	inator		Module offered by			
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
Present	tation a	nd discussion of cutting	edge literature.				
Intende	ed learr	ning outcomes					
Overvie content	ew of cเ t of put	itting edge literature in th lications.	ne field of neuroscien	ce, ability to critical	ly read, present and discuss the		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
S (2) Module	e taugh	t in: English					
Methoo module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether		
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)				
Allocat	ion of p	olaces					
Additio	nal info	ormation					
Worklo	ad						
150 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	e appea	rs in					
Master	Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Research Group Seminar Neurosciences 3					07-MLSRG-NS3-152-m01	
Module	e coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Present	tation a	and discussion of cutting	edge literature.			
Intende	ed learr	ning outcomes				
Overvie content	ew of cu t of pub	itting edge literature in th blications.	ne field of neuroscien	ce, ability to critical	ly read, present and discuss the	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	e ssment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ins in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module	title		Abbreviation				
Resear	ch Grou	up Seminar Neuroscience	07-MLSRG-NS4N-152-m01				
Module	e coord	inator		Module offered by			
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
3	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
Present	tation a	and discussion of cutting	edge literature.				
Intende	ed learr	ning outcomes					
Overvie content	ew of cเ t of pub	utting edge literature in th blications.	ne field of neuroscien	ce, ability to critical	ly read, present and discuss the		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
S (1) Module	e taugh	t in: English					
Methoo module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether		
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)				
Allocat	ion of p	olaces					
Additio	nal info	ormation					
Worklo	ad						
90 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	e appea	urs in					
Master	Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Gradua	Graduate Program Seminar Neurosciences 1 07-MLSGP-NS1-152-mo1					
Module	e coord	inator		Module offered by		
Dean of	f Studi	es Biologie (Biology)	_	Faculty of Biology		
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 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s nental r	speakers present and dis research with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed lear	ning outcomes				
Studen rent me	ts acqu ethods.	uire an overview of cutting	g edge research in th	eir field as well as ar	n understanding of new and cur-	
Courses	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in Fnalish				
Mothod						
module is	creditab	le for bonus)	ge — If other than German, e	examination offered — if no	it every semester, information on whether	
e) prese Langua	entatio ge of a	n (20 to 45 minutes) ssessment: English				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ıg cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) Translational Neuroscience (2015)						
Master	s aegr	ee (1 major) Translational	Neuroscience (2017))		
Master	s uegn 's dear	ee (1 major) Translational	Neuroscience (2018))		
master's degree (1 major) translational neuroscience (2022)						

Module title Abbreviation					Abbreviation	
Gradua	Graduate Program Seminar Neurosciences 2N 07-MLSGP-NS2N-152-m01					
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learr	ning outcomes				
Studen rent me	ts acqu ethods.	lire an overview of cutting	g edge research in th	eir field as well as ar	n understanding of new and cur-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	e taugh	t in: English				
Methoo module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title Abbre					Abbreviation	
Graduate Program Seminar Neurosciences 3 07-MLSGP-NS3-152-mo1					07-MLSGP-NS3-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learn	ning outcomes				
Studen rent me	ts acqu ethods.	ire an overview of cutting	g edge research in the	eir field as well as ar	n understanding of new and cur-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) Module	e taugh	t in: English				
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
module is	creditab	le for bonus)				
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h	90 h					
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module	Module title Abbreviation					
Gradua	Graduate Program Seminar Neurosciences 4N 07-MLSGP-NS4N-152-mo1					
Module	e coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learı	ning outcomes				
Studen rent me	ts acqu ethods.	lire an overview of cutting	g edge research in th	eir field as well as ar	n understanding of new and cur-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) Module	e taugh	t in: English				
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)	· · · ·			
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h	90 h					
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title				Abbreviation		
Worksh	iop Nei	urosciences 1			07-MLSWS-NS1-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
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					
Discuss thods.	sion of	current methods and tec	hniques required in la	ab projects. Insights	into and training in novel me-	
Intende	ed learr	ning outcomes				
Student	ts acqu	ire proficiency in those n	nethods and techniqu	ues that are required	l in their lab projects.	
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
W (2) Module	taugh	t in: English				
Method module is a) writte	l of ass creditab en exar	eessment (type, scope, langua le for bonus) nination (30 to 60 minuto	ge — if other than German, e es, including multiple	examination offered — if no	t every semester, information on whether	
b) log (a c) oral e d) oral e e) prese	approx examin examin entatio	. 10 to 30 pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes)	ach (30 to 60 minutes 3 candidates (approx	s) or . 30 to 60 minutes) c	or	
Student Langua	ts will l ge of a	pe informed about the me ssessment: English	ethod, length and sco	ope of the assessme	nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal info	ormation				
Workloa	ad					
150 h						
Teachin	ng cycl	9				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master'	Master's degree (1 major) Translational Neuroscience (2015)					
Master'	s degre	ee (1 major) Translational	Neuroscience (2017)			
Master'	s degre	ee (1 major) Translational	Neuroscience (2018))		
Master'	s degre	ee (1 major) Translational	Neuroscience (2022	J		

Module title Abbreviation					Abbreviation	
Worksł	Workshop Neurosciences 2N 07-MLSWS-NS2N-152-m01					
Module	e coord	inator		Module offered by		
Dean o	f Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discus: thods.	sion of	current methods and tec	hniques required in la	ab projects. Insights	into and training in novel me-	
Intende	ed learı	ning outcomes				
Studen	ts acqu	uire proficiency in those n	nethods and techniq	ues that are required	l in their lab projects.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
W (2)						
Module	e taugh	t in: English				
Method module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	it every semester, information on whether	
a) writt b) log (c) oral d) oral e) pres Studen Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				
Master	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation	
Workshop Neurosciences 3 07-MLSWS-NS3-152-m01						
Module	e coord	inator		Module offered by		
Dean o	f Studie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discuss thods.	sion of	current methods and tec	hniques required in l	ab projects. Insights	into and training in novel me-	
Intende	ed learı	ning outcomes				
Studen	ts acqu	uire proficiency in those n	nethods and techniq	ues that are required	l in their lab projects.	
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
W (1) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (c) oral e d) oral e e) prese Studen Langua	en exar 10 to 3 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	in in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Workshop Neurosciences 4 07-MLSWS-NS4-152-m01						
Module	e coord	inator		Module offered by		
Dean o	f Studio	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discuss thods.	sion of	current methods and tec	hniques required in la	ab projects. Insights	into and training in novel me-	
Intende	ed leari	ning outcomes				
Studen	ts acqu	uire proficiency in those n	nethods and techniq	ues that are required	l in their lab projects.	
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
W (1) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (c) oral e d) oral e e) prese Studen Langua	en exar 10 to 3 examin examin entatio ts will l ge of a	mination (30 to 60 minute o pages) or ation of one candidate ea nation in groups of up to <u>3</u> n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	 olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master's degree (1 major) FOKUS Life Sciences (2015)						
Module title				Abbreviation		
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Retreat Neurosciences 1					07-MLSRNS1-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
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					
Present and the perviso	ation o ir disc rs/exa	of current research projec ussion in the research co mination committee and	t results in the form o mmunity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-	
Intende	ed leari	ning outcomes				
Poster o literatu	design re in th	skills, (oral) presentatior e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.	
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in: English				
Method module is	l of ass creditab	e ssment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n (20 to 45 minutes) ssessment: English				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master'	s degr	ee (1 major) FOKUS Life S	ciences (2015)			
Master'	s degr	ee (1 major) Translational	Neuroscience (2015))		
Master'	s degr	ee (1 major) Translational	Neuroscience (2017)			
Master'	s degr	ee (1 major) Translational	Neuroscience (2018))		
Master's degree (1 major) Translational Neuroscience (2022)						

Module title			Abbreviation		
Retreat	Neuro	sciences 2N			07-MLSRNS2N-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ers/exa	of current research projec ussion in the research co mination committee and	t results in the form o mmunity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster o literatu	design re in th	skills, (oral) presentation e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module appears in					
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		

Module title			Abbreviation			
Neuroscience Lab 1					07-MLSPC-NS1-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	.t.	
Intende	ed leari	ning outcomes				
Student theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-	
Course	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
P (8) Module Method	taugh I of ass	t in: English : essment (type, scope, langua	ge — if other than German, 6	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)				
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 3 examin examin entatio ts will l ge of a	nination (30 to 60 minut o pages) or ation of one candidate ed ation in groups of up to 3 n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	Workload					
300 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module appears in						
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title			Abbreviation		
Neuroscience Lab 2				07-MLSPC-NS2-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	:t.
Intende	ed leari	ning outcomes			
Student theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Course	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English	go — if other than Gorman	avamination offered — if no	t avans comostor, information on whother
module is	creditab	le for bonus)			t every semester, mornution on whether
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will 1 ge of a	nination (30 to 60 minut o pages) or ation of one candidate es ation in groups of up to <u>a</u> n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
300 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	Module appears in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation			
Neuroscience Lab 3					07-MLSPC-NS3-152-m01	
Module	coord	inator		Module offered by		
Dean of	Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
Student	ts sper	d five weeks working on	a small, well-defined	scientific lab projec	:t.	
Intende	d learr	ning outcomes				
Student theoret on.	ts have ical kn	reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-	
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
P (8) Module Method	taugh I of ass	t in: English essment (type, scope, langua;	ge — if other than German, 6	examination offered — if no	it every semester, information on whether	
module is	creditab	le for bonus)				
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes) pe informed about the me ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) (5) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal info	ormation				
Workload						
300 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title			Abbreviation			
Neuroscience Lab 4				07-MLSPC-NS4-152-m01		
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	:t.	
Intende	ed learr	ning outcomes				
Student theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-	
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
P (8) Module	e taugh	t in: English				
Method module is	l of ass creditab	e ssment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocati	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
300 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					



Module Group - GSLS-Section Infection And Immunity

(ECTS credits)

Module title Abbreviation					Abbreviation	
Research Group Seminar Infection and Immunity 1					07-MLSRGII1-152-m01	
Module	coord	inator		Module offered by		
Dean o	f Studie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, ex	: progre kchang	ess in the research group e of experiences, trouble	: presentation and di shooting tips.	scussion of the resu	lts of all research group mem-	
Intende	ed learr	ning outcomes				
Studen tal plan	ts have ining a:	e developed problem solv s well as troubleshooting	ving skills, presentati skills.	on skills, scientific d	liscussion skills and experimen-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	e taugh	t in: English				
Methoo module is	d of ass	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Research Group Seminar Infection and Immunity 2N					07-MLSRGII2N-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, ex	progre kchang	ess in the research group e of experiences, trouble	: presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-	
Intende	ed learr	ning outcomes				
Studen tal plan	ts have ining as	e developed problem solv s well as troubleshooting	ving skills, presentati skills.	on skills, scientific d	liscussion skills and experimen-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in: English				
Methoo module is	l of ass	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module	Module title Abbreviation					
Research Group Seminar Infection and Immunity 3					07-MLSRGII3-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, ex	: progre kchang	ess in the research group e of experiences, trouble	: presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-	
Intende	ed learr	ning outcomes				
Studen tal plan	ts have ining as	e developed problem solv s well as troubleshooting	ving skills, presentati skills.	on skills, scientific d	liscussion skills and experimen-	
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1)						
Module	taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module	Module title Abbreviation					
Research Group Seminar Infection and Immunity 4N					07-MLSRGII4N-152-m01	
Module	coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, ex	: progre kchang	ess in the research group e of experiences, trouble	presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-	
Intende	ed learı	ning outcomes				
Studen tal plan	ts have ining a:	e developed problem solv s well as troubleshooting	ving skills, presentati skills.	on skills, scientific d	liscussion skills and experimen-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1)						
Module	taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teachir	Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Graduate Program Seminar Infection and Immunity 1					07-MLSGP-II1-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology		
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 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov ime/topics of the res	el/current methods as well as search group.	
Intende	ed learn	ning outcomes				
Studen of new	ts have and cu	e gained an overview of corrent methods.	utting edge research	in their field and hav	ve developed an understanding	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
Module	taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module	Module title Abbreviation						
Graduate Program Seminar Infection and Immunity 2N					07-MLSGP-II2N-152-m01		
Module	coord	inator		Module offered by			
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology			
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.		
Intende	ed learr	ning outcomes					
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
S (2)							
Module	taugh	t in: English					
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether		
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)				
Allocat	ion of p	olaces					
Additio	nal info	ormation					
Worklo	ad						
150 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	e appea	in and the second se					
Master's degree (1 major) FOKUS Life Sciences (2015)							

Module title Abbreviation					Abbreviation
Graduate Program Seminar Infection and Immunity 3					07-MLSGP-II3-152-m01
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.
Intende	ed learn	ning outcomes			
Studen of new	ts have and cu	e gained an overview of corrent methods.	utting edge research	in their field and hav	ve developed an understanding
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teachir	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation	
Graduate Program Seminar Infection and Immunity 4N 07-MLSGP-II4N-152-mo1					07-MLSGP-II4N-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s iental r	speakers present and dis research with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learn	ning outcomes				
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1)						
Module	taugh	t in: English				
Methoo module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teachir	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title				Abbreviation		
Workshop Infection and Immunity 1					07-MLSWII1-152-m01	
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Master	Life Sciences	Faculty of Biology		
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 seme	ster	graduate				
Conten	ts					
Discuss	sion of	current methods and tec	hniques required in l	ab projects.		
Intende	ed learr	ning outcomes				
Studen	ts will I	nave acquired proficiency	y in those methods a	nd techniques that a	re required in their lab projects.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
W (2) Module	e taugh	t in: English				
Methoo	l of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)			,	
a) writte b) log (c) oral e d) oral e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minut o pages) or ation of one candidate e ation in groups of up to g n (20 to 45 minutes) oe informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module appears in						
Master	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Workshop Infection and Immunity 2N					07-MLSWII2N-152-m01
Module	e coord	inator		Module offered by	
degree	progra	mme coordinator Master	Life Sciences	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Discuss	sion of	current methods and tec	hniques required in la	ab projects.	
Intende	ed learı	ning outcomes			
Studen	ts will I	have acquired proficiency	y in those methods a	nd techniques that a	re required in their lab projects.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
W (2) Module	e taugh	t in: English			
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
a) writt b) log (c) oral (d) oral e) prese Studen Langua	en exar 10 to 3 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module appears in					
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation		
Workshop Infection and Immunity 3					07-MLSWII3-152-m01	
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Master	Life Sciences	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discuss	sion of	current methods and tec	hniques required in l	ab projects.		
Intende	ed leari	ning outcomes				
Studen	ts will I	nave acquired proficiency	y in those methods a	nd techniques that a	are required in their lab projects.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
W (1)						
Module	e taugh	t in: English				
Method	d of ass	s essment (type, scope, langua	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) writte b) log (c) oral e	en exar 10 to 30 examin	nination (30 to 60 minut o pages) or ation of one candidate ea	es, including multiple ach (30 to 60 minute	e choice questions) o s) or	or	
d) oral e) prese Studen Langua	examin entatio ts will I ge of a	ation in groups of up to g n (20 to 45 minutes) pe informed about the mo ssessment: English	3 candidates (30 to 6 ethod, length and sco	o minutes) or ope of the assessme	nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module appears in						
Master	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation		
Workshop Infection and Immunity 4					07-MLSWII4-152-m01	
Module	e coord	inator		Module offered by		
degree	progra	mme coordinator Master	Life Sciences	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discuss	sion of	current methods and tec	hniques required in l	ab projects.		
Intende	ed learr	ning outcomes				
Studen	ts will I	have acquired proficiency	y in those methods a	nd techniques that a	are required in their lab projects.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
W (1)						
Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) writte b) log (c) oral e d) oral e e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h	90 h					
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module appears in						
Master	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Retreat	Infect	ion and Immunity 1			07-MLSRII1-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ers/exa	of current research projec ussion in the research co mination committee and	t results in the form on munity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster o literatu	design re in th	skills, (oral) presentation e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	appea	ars in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		

Module title			Abbreviation		
Retreat	Infect	ion and Immunity 2N			07-MLSRII2N-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ers/exa	of current research projec ussion in the research co mination committee and	t results in the form o mmunity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster o literatu	design re in th	skills, (oral) presentation e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		

Module title			Abbreviation		
Infection and Immunity Lab 1				07-MLSPC-II1-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
Student	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	:t.
Intende	ed leari	ning outcomes			
Student theoreti on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module Method	taugh I of ass	t in: English :essment (type, scope, langua; le for bonus)	ge — if other than German, 6	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student	en exar 10 to 30 examin examin entatio ts will 1 ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workloa	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Infection and Immunity Lab 2				07-MLSPC-II2-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudi	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	:t.
Intende	ed leari	ning outcomes			
Student theoreti on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module Method	taugh I of ass	t in: English s essment (type, scope, langua le for bonus)	ge — if other than German, 6	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workloa	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	nrs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Infection and Immunity Lab 3				07-MLSPC-II3-152-m01	
Module	coord	inator		Module offered by	
Dean of	Studie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
Student	ts sper	nd five weeks working on	a small, well-defined	scientific lab projec	:t.
Intende	d learr	ning outcomes			
Student theoreti on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English			
Method module is	l of ass creditab	s essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar to to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) o 5) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Infection and Immunity Lab 4				07-MLSPC-II4-152-m01	
Module	coord	inator		Module offered by	
Dean of	Studie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	scientific lab projec	:t.
Intende	d lear	ning outcomes			
Student theoreti on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English	if the star Courses	in the offered if an	
module is	creditab	le for bonus)	ge — If other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua	en exar to to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) oe informed about the me ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 ethod, length and sco	e choice questions) o 5) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				



Module Group - GSLS-Section Integrative Biology

(ECTS credits)

Module title Abbreviation					Abbreviation
Research Group Seminar Integrative Biology 1 07-MLSRGIB:					07-MLSRGIB1-152-m01
Module coordinator				Module offered by	
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology	
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 seme	ster	graduate			
Conten	ts				
Current bers, ex	: progre kchang	ess in the research group e of experiences, trouble	: presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-
Intende	ed learr	ning outcomes			
Studen trouble	ts have shootir	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in and a second s			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Research Group Seminar Integrative Biology 2N					07-MLSRGIB2N-152-m01
Module coordinator				Module offered by	
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Current bers, ex	progre kchang	ess in the research group: e of experiences, trouble	presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-
Intende	ed learr	ning outcomes			
Studen trouble	ts have shootir	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	taugh	t in: English			
Method	l of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)	· · · ·		
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title Abbreviation					Abbreviation
Resear	ch Grou	ıp Seminar Integrative B	iology 3		07-MLSRGIB3-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Current bers, ex	progre xchang	ess in the research group e of experiences, trouble	presentation and di shooting tips.	scussion of the resu	lts of all research group mem-
Intende	ed learr	ning outcomes			
Studen ⁻ trouble	ts have shootir	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) Module	e taugh	t in: English			
Methoo module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module	Abbreviation					
Resear	Research Group Seminar Integrative Biology 4N 07-MLSRGIB4N-152-m01					
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, e>	progre kchang	ess in the research group e of experiences, trouble	presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-	
Intende	ed learr	ning outcomes				
Studen trouble	ts have shootir	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) Module	taugh	t in: English				
Methoo module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	appea	in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Gradua	Graduate Program Seminar Integrative Biology 1 07-MLSGPIB1-152-m01				
Module	e coord	inator		Module offered by	
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.
Intende	ed learr	ning outcomes			
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation	
Gradua	Graduate Program Seminar Integrative Biology 2 07-MLSGPIB2N-152-m01					
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s iental r	speakers present and dis esearch with relevance to	cuss cutting edge res the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learr	ning outcomes				
Studen of new	ts have and cu	e gained an overview of co rrent methods.	utting edge research	in their field and hav	ve developed an understanding	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in: English				
Method	l of ass	essment (type, scope, langua;	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
	•					
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	appea	rs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title Abbreviation					Abbreviation
Gradua	te Prog	gram Seminar Integrative	Biology 3		07-MLSGPIB3-152-m01
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Invited fundam	guest s iental r	speakers present and dis esearch with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.
Intende	ed learr	ning outcomes			
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) Module	taugh	t in: English			
Methoo module is	l of ass	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Graduate Program Seminar Integrative Biology 4N 07-MLSGPIB4N-152-m01					
Module coordinator				Module offered by	
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
3	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Invited fundam	guest s nental r	speakers present and dis esearch with relevance to	cuss cutting edge res the current program	search including nov me/topics of the res	rel/current methods as well as search group.
Intende	ed learr	ning outcomes			
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Workshop Integrative Biology 1					07-MLSWS-IB1-152-m01
Module	e coord	inator		Module offered by	
Dean o	fStudi	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Discus	sion of	current methods and tec	hniques required in l	ab projects or in the	field during field trips.
Intende	ed leari	ning outcomes			
Studen jects.	its have	e acquired proficiency in t	those methods and to	echniques that are re	equired in their lab or field pro-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
W (2) Module	e taugh	t in: English			
Metho module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writt b) log (c) oral d) oral e) pres Studen Langua	en exan 10 to 30 examin examin entatio its will l age of a	nination (30 to 60 minut o pages) or ation of one candidate en ation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
	-				
Additio	onal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in in			
Master	's degr	ee (1 major) FOKUS Life S	ciences (2015)		

Module	Module title Abbreviation					
Worksh	Workshop Integrative Biology 2N 07-MLSWS-IB2N-152-m01					
Module coordinator				Module offered by		
Dean o	f Studio	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discus	sion of	current methods and tec	hniques required in l	ab projects or in the	field during field trips.	
Intende	ed leari	ning outcomes				
Studen jects.	ts have	e acquired proficiency in t	hose methods and te	echniques that are re	equired in their lab or field pro-	
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
W (2) Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	s creditab	le for bonus)				
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (10 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) Students will be informed about the method, length and scope of the assessment prior to the course. 						
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master's degree (1 major) FOKUS Life Sciences (2015)						
Module title					Abbreviation	
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Workshop Integrative Biology 3					07-MLSWS-IB3-152-m01	
Module	e coord	inator		Module offered by		
Dean o	f Studie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Discus	sion of	current methods and tec	hniques required in l	ab projects or in the	field during field trips.	
Intende	ed leari	ning outcomes				
Studen jects.	ts have	e acquired proficiency in t	hose methods and te	echniques that are re	equired in their lab or field pro-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
W (1) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) writt b) log (c) oral (d) oral e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	mination (30 to 60 minute o pages) or ation of one candidate ea lation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	s) or o minutes) or ope of the assessme	or nt prior to the course.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	in and a second s				
Master	Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation
Workshop Integrative Biology 4					07-MLSWS-IB4-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studio	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Discuss	sion of	current methods and tec	hniques required in l	ab projects or in the	field during field trips.
Intende	ed leari	ning outcomes			
Studen jects.	ts have	e acquired proficiency in t	hose methods and to	echniques that are re	equired in their lab or field pro-
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
W (1) Module	e taugh	t in: English			
Methoo module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writte b) log (c) oral e d) oral e e) prese Studen Langua	en exar 10 to 34 examin examin entatio ts will l ge of a	mination (30 to 60 minut o pages) or ation of one candidate ea iation in groups of up to g n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	ars in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Retreat Integrative Biology 1					07-MLSRIB1-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology	
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 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ers/exa	of current research projec ussion in the research co mination committee and	t results in the form o mmunity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster o literatu	design re in th	skills, (oral) presentatior e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	Module appears in				
Master'	's degr	ee (1 major) FOKUS Life S	ciences (2015)		

Module title			Abbreviation		
Retreat Integrative Biology2N					07-MLSRIB2N-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ers/exa	of current research projec ussion in the research co mination committee and	t results in the form o mmunity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster o literatu	design re in th	skills, (oral) presentation e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	in			
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Integrative Biology Lab 1				07-MLSPC-IB1-152-m01	
Module	coord	inator		Module offered by	
Dean of	Studie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Student	ts sper	nd five weeks working on	a small, well-defined	l scientific lab or fiel	d project.
Intende	d learı	ning outcomes			
Student theoreti on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module Method	taugh l of ass	t in: English : essment (type, scope, langua; le for bonus)	ge — if other than German, 6	examination offered — if no	t every semester, information on whether
a) writte b) log (1 c) oral e d) oral e e) prese Student	en exar to to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workloa	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in				
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Integrative Biology Lab 2				07-MLSPC-IB2-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab or fiel	d project.
Intende	ed leari	ning outcomes			
Student theoreti on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module Method	taugh I of ass	t in: English : essment (type, scope, langua;	ge — if other than German, 6	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
a) writte b) log (1 c) oral e d) oral e e) prese Student Langua;	en exar 10 to 30 examin examin entatio ts will 1 ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to 3 n (20 to 45 minutes) pe informed about the me ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Integrative Biology Lab 3				07-MLSPC-IB3-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	scientific lab or fiel	d project.
Intende	ed learr	ning outcomes			
Student theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English			
module is	creditab	le for bonus)	ge — If other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minut o pages) or ation of one candidate es ation in groups of up to g n (20 to 45 minutes) oe informed about the mo ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 6 ethod, length and sco	e choice questions) o 5) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
300 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	appea	in in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation	
Integrative Biology Lab 4				07-MLSPC-IB4-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	scientific lab or fiel	d project.
Intende	ed learr	ning outcomes			
Student theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English			
module is	creditab	s essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writte b) log (: c) oral e d) oral e e) prese Student Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minute o pages) or ation of one candidate ea ation in groups of up to g n (20 to 45 minutes) be informed about the me ssessment: English	es, including multiple ach (30 to 60 minutes 3 candidates (30 to 60 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Workload					
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				



Module Group - GSLS-Section Biomedicine

(ECTS credits)

Module title					Abbreviation
Research Group Seminar Biomedicine 1					07-MLSRGBM1-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology	
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 seme	ster	graduate			
Conten	ts				
Current bers, ex	progre xchang	ess in the research group e of experiences, trouble	presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-
Intende	ed leari	ning outcomes			
Studen trouble	ts have shootii	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Module	taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation	
Research Group Seminar Biomedicine 2N					07-MLSRGBM2N-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, e>	progre kchang	ess in the research group e of experiences, trouble	: presentation and di shooting tips.	scussion of the resu	Its of all research group mem-	
Intende	ed learr	ning outcomes				
Studen trouble	ts have shootir	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in: English				
Method	l of ass	s essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	creditab	le for bonus)				
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	appea	irs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation	
Research Group Seminar Biomedicine 3					07-MLSRGBM3-152-m01	
Module	coord	inator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Current bers, e>	progre kchang	ess in the research group e of experiences, trouble	: presentation and di shooting tips.	scussion of the resu	lts of all research group mem-	
Intende	ed learr	ning outcomes				
Studen trouble	ts have shootir	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) Module	taugh	t in: English				
Method module is	l of ass	e essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
90 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title					Abbreviation
Research Group Seminar Biomedicine 4N					07-MLSRGBM4N-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Current bers, e>	progre kchang	ess in the research group e of experiences, trouble	presentation and dis shooting tips.	scussion of the resu	lts of all research group mem-
Intende	ed learı	ning outcomes			
Studen trouble	ts have shootii	e developed problem solv ng skills and are able to p	ving skills, presentati blan experiments.	on skills, scientific d	liscussion skills as well as
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) Module	e taugh	t in: English			
Method	l of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation	
Graduate Program Seminar Biomedicine 1					07-MLSGP-BM1-152-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Biologie (Biology)		Faculty of Biology		
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 seme	ster	graduate				
Conten	ts					
Invited fundam	guest s nental r	speakers present and dis research with relevance to	cuss cutting edge res o the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learı	ning outcomes				
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title				Abbreviation	
Graduate Program Seminar Biomedicine 2N 07-ML					07-MLSGP-BM2N-152-m01
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Invited fundam	guest s iental r	speakers present and dis esearch with relevance to	cuss cutting edge res the current program	search including nov me/topics of the res	el/current methods as well as search group.
Intende	ed learr	ning outcomes			
Studen of new	ts have and cu	e gained an overview of corrent methods.	utting edge research	in their field and hav	ve developed an understanding
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	taugh	t in: English			
Methoo module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title					Abbreviation	
Graduate Program Seminar Biomedicine 3 07-M					07-MLSGP-BM3-152-m01	
Module	coord	nator		Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	uccessfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
Invited fundam	guest s iental r	peakers present and dis esearch with relevance to	cuss cutting edge res the current program	search including nov me/topics of the res	el/current methods as well as search group.	
Intende	ed learr	ning outcomes				
Student of new	ts have and cu	gained an overview of corrent methods.	utting edge research	in their field and hav	ve developed an understanding	
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) Module	taught	t in: English				
Method module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)			
Allocati	ion of p	laces				
Additio	nal info	ormation				
Worklo	ad					
90 h						
Teachir	Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	rs in				
Master's degree (1 major) FOKUS Life Sciences (2015)						

Module title				Abbreviation	
Graduate Program Seminar Biomedicine 4N 07-MLSGP-BM4N-152-m01					07-MLSGP-BM4N-152-m01
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
3	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Invited fundam	guest s iental r	speakers present and dis esearch with relevance to	cuss cutting edge res the current program	search including nov me/topics of the res	el/current methods as well as search group.
Intende	ed learr	ning outcomes			
Studen of new	ts have and cu	e gained an overview of c rrent methods.	utting edge research	in their field and hav	ve developed an understanding
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) Module	taugh	t in: English			
Methoo module is	l of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
e) prese Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teachir	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Workshop Biomedicine 1			07-MLSWS-BM1-152-m01		
Module coordinator Modu			Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
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 seme	ster	graduate			
Conten	ts				
Discuss	sion of	current methods and tec	hniques required in l	ab projects.	
Intende	ed learn	ning outcomes			
Studen jects.	ts have	e acquired proficiency in t	hose methods and te	echniques that are re	equired in their lab or field pro-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
W (2) Module	taugh	t in: English			
Methoo module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (c) oral e d) oral e e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will l ge of a	nination (30 to 60 minut o pages) or ation of one candidate es ation in groups of up to <u>3</u> n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	ars in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Workshop Biomedicine 2N					07-MLSWS-BM2N-152-m01
Module	e coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)	_	Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Discuss	sion of	current methods and tec	hniques required in l	ab projects.	
Intende	ed leari	ning outcomes			
Studen jects.	ts have	e acquired proficiency in t	hose methods and to	echniques that are re	equired in their lab or field pro-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
W (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (c) oral e d) oral e e) prese Studen Langua	en exar 10 to 30 examin examin entatio ts will 1 ge of a	nination (30 to 60 minut o pages) or ation of one candidate es ation in groups of up to 3 n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	irs in			
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation	
Workshop Biomedicine 3				07-MLSWS-BM3-152-m01	
Module coordinator M			Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Discuss	sion of	current methods and tec	hniques required in l	ab projects.	
Intende	ed learr	ning outcomes			
Studen jects.	ts have	e acquired proficiency in t	hose methods and te	echniques that are re	equired in their lab or field pro-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
W (1) Module	taugh	t in: English			
Methoo module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (a c) oral e d) oral e e) prese Studen Langua	en exar approx examin examin entatio ts will l ge of a	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate es ation in groups of up to <u>3</u> n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (30 to 6 ethod, length and sco	e choice questions) o s) or o minutes) or ope of the assessme	or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
-					
Module	e appea	nrs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Workshop Biomedicine 4				07-MLSWS-BM4-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Discuss	sion of	current methods and tec	hniques required in l	ab projects.	
Intende	ed learr	ning outcomes			
Studen jects.	ts have	e acquired proficiency in t	hose methods and te	echniques that are re	equired in their lab or field pro-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
W (1) Module	taugh	t in: English			
Methoo module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) log (a c) oral e d) oral e e) prese Studen Langua	en exar approx examin examin entatio ts will l ge of a	nination (30 to 60 minuto . 10 to 30 pages) or ation of one candidate ea ation in groups of up to <u>3</u> n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (approx ethod, length and sco	e choice questions) o s) or . 30 to 60 minutes) o ope of the assessme	or or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	e appea	nrs in			
Master's degree (1 major) FOKUS Life Sciences (2015)					

Module title				Abbreviation	
Retreat	Biome	edicine 1			07-MLSRBM1-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ors/exa	of current research projec ussion in the research co mination committee and	t results in the form on munity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster (literatu	design re in th	skills, (oral) presentatior e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of _l	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	ars in			
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation	
Retreat	Biome	dicine 2N			07-MLSRBM2N-152-m01
Module	e coord	inator		Module offered by	
Dean of	f Studi	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present and the perviso	tation o eir disc ers/exa	of current research projec ussion in the research co mination committee and	t results in the form on munity. Discussion troubleshooting.	of a poster and/or ta and evaluation of ir	lk. Critical evaluation of results nterim progress reports with su-
Intende	ed lear	ning outcomes			
Poster o literatu	design re in th	skills, (oral) presentatior e field, troubleshooting s	n skills, ability to criti skills, evaluation of ir	cally discuss results nterim progress repo	taking into consideration current rts.
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
e) preso Langua	entatio ge of a	n with or without slides (ssessment: English	20 to 45 minutes)		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	Module appears in				
Master	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title			Abbreviation		
Biomedicine Lab 1				07-MLSPC-BM1-152-m01	
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	scientific lab projec	:t.
Intende	ed leari	ning outcomes			
Student theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Course	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module Method	taugh I of ass	t in: English s essment (type, scope, langua	ge — if other than German, 6	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
a) writte b) log (a c) oral e d) oral e e) prese Student Langua	en exar approx examin examin entatio ts will l ge of a	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate en ation in groups of up to 3 n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (approx ethod, length and sco	s) or . 30 to 60 minutes) o ppe of the assessme	or or nt prior to the course.
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	ars in			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation	
Biomed	licine L	ab 2			07-MLSPC-BM2-152-m01
Module	coord	inator		Module offered by	
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Studen	ts sper	nd five weeks working on	a small, well-defined	scientific lab projec	:t.
Intende	ed leari	ning outcomes			
Studen theoret on.	ts have ical kn	e reinforced previously ac owledge in the lab. Stude	quired lab skills, acq ents have gained exp	uired new lab techn ertise in the analysis	iques, and learned how to apply s of raw data and their presentati-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (8) Module	taugh	t in: English	a if other than Corman	avamination offered if no	t over comester information on whether
module is	creditab	le for bonus)	ge — If other than German, e	examination onered — if no	it every semester, mormation on whether
a) writte b) log (a c) oral e d) oral e e) prese Studen Langua	en exar approx examin examin entatio ts will l ge of a	nination (30 to 60 minut . 10 to 30 pages) or ation of one candidate en ation in groups of up to 3 n (20 to 45 minutes) be informed about the mo ssessment: English	es, including multiple ach (30 to 60 minute: 3 candidates (approx ethod, length and sco	e choice questions) o s) or . 30 to 60 minutes) o ope of the assessme	or or nt prior to the course.
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	in and the second se			
Master'	Master's degree (1 major) FOKUS Life Sciences (2015)				

Module title				Abbreviation		
Biomedicine Lab 3					07-MLSPC-BM3-152-m01	
Module coordinator				Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	TS Method of grading Only after succ. co			npl. of module(s)		
10 numerical grade -						
Duration Module level		Other prerequisites				
1 semester		graduate				
Conten	Contents					
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	:t.	
Intende	ed learr	ning outcomes				
Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.						
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
P (8) Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 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 (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. 						
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) FOKUS Life Sciences (2015)						

Module title				Abbreviation		
Biomedicine Lab 4					07-MLSPC-BM4-152-m01	
Module coordinator				Module offered by		
Dean of	fStudie	es Biologie (Biology)		Faculty of Biology		
ECTS	TS Method of grading Only after succ. co			npl. of module(s)		
10 numerical grade						
Duration Module level		Other prerequisites				
1 semester		graduate				
Conten	Contents					
Studen	ts sper	nd five weeks working on	a small, well-defined	l scientific lab projec	:t.	
Intende	ed learr	ning outcomes				
Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.						
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
P (8) Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
 a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 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 (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. 						
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) FOKUS Life Sciences (2015)						





Thesis (30 ECTS credits)

Module title					Abbreviation	
Masterthesis Life Sciences					07-MLST-152-m01	
Module coordinator				Module offered by		
chairpe	rson o	f examination committee	Biologie (Biology)	Faculty of Biology		
ECTS	CTS Method of grading Only after su			compl. of module(s)		
25 numerical grade						
Duration Module level		Module level	Other prerequisites			
1 semester		graduate				
Conten	ts					
Investig in a wri	gation of the second se	of a current scientific topi esis as well as oral exam	ic, using modern met ination.	hods and technique	s. Documentation of the results	
Intende	ed learr	ning outcomes				
sent and interpret raw data according to international standards of good scientific conduct. They are able to summarise their data in a written thesis, adhering to scientific rules and standards. Students are able to critically discuss and defend their experiment plan, results and interpretations thereof and are able to put their own research in the context of current publications in their field. They have acquired a broad expertise both in their field of study and in related fields.						
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
No courses assigned to module Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether						
written thesis (50 to 100 pages) Language of assessment: English						
Allocation of places						
Additio	nal inf	ormation				
Time to complete: 6 months						
Workload						
750 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015) Master's degree (1 major) FOKUS Life Sciences (2025)						
master's degree (1 major) FUKUS LIFE SCIENCES (2025)						

Module title					Abbreviation	
Oral Examination Life Sciences					07-MLSAK-152-m01	
Module coordinator				Module offered by		
chairpe	rson of	f examination committee	Biologie (Biology)	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	cc. compl. of module(s)		
5 numerical grade			07-MLST			
Duration Module level		Other prerequisites				
1 semes	ster	graduate				
Contents						
Investig in a writ	gation o tten the	of a current scientific topi esis as well as oral exam	c, using modern met ination.	hods and technique	s. Documentation of the results	
Intende	d learr	ning outcomes				
sent and interpret raw data according to international standards of good scientific conduct. They are able to summarise their data in a written thesis, adhering to scientific rules and standards. Students are able to critically discuss and defend their experiment plan, results and interpretations thereof and are able to put their own research in the context of current publications in their field. They have acquired a broad expertise both in their field of study and in related fields.						
K (o) Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
presentation of Master's thesis (30 minutes) and discussion (15 minutes) Language of assessment: English						
Allocation of places						
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) FOKUS Life Sciences (2015)						
Master's degree (1 major) FOKUS Life Sciences (2025)						