

# **Annex SFB**

# Studienfachbeschreibung (subject description, SFB) for the subject Biomedicine as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Medicine Examination regulations version: 2018 Responsible: Faculty of Biology Examination regulations version: 2018

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

= lecture

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

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

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

= list of modules

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

Conventions for the Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable for bonus.

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

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

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

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

### ASP02015

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

### 07-Mar-2018 (2018-6)

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

Every module will be described using the following form:

Abbreviation	Module title		,						
	ECTS Durat		Duration	(in semesters)	Method of grading		Module level		
	Courses		To be spe	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y					
	Method of as	ssessme	ent						
	Only after su completion of		l if applica	fapplicable					
	Other prereq	uisites	if applica	if applicable					
	Participants on of places		ocati- if applica	if applicable					
	Additional information		on if applica	if applicable					
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)			

Compulsory Cours	ses (110 ECTS cro	edits)									
Modules Biology (	20 ECTS credits	)									
07-ZE-	Basics of Biol	ogy - From	Cells	to Organisms							
ORG-152-m01	ECTS 7	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	Courses		V (1.5) + V (1.5) + V (2) + Ü (3)							
	Method of ass	Method of assessment		n examination (appr able for bonus	rox. 60 minutes)						
	other prerequ	isites					ce of exercises (minimun sites for admission to ass	num 80%) and successful completiassessment.			
07-PHYORG-152- m01	Physiology of	Organism	ıs				,				
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	,	V (1) +	- V (1) + V (1) + Ü (2)			,				
	Method of ass	sessment		n examination (appr able for bonus	rox. 60 minutes)						
	other prerequ	isites					ce of exercises (minimun sites for admission to ass	n 80%) and successful completisessment.			
07-GE-	Genetics and Neurobiology										
NEU-152-m01	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) -	+ Ü (1.5)			<u>^</u>				
	Method of ass	Method of assessment		written examination (60 to 90 minutes) creditable for bonus							
	other prerequ	isites					ce of exercises (minimun sites for admission to ass	n 80%) and successful completisessment.			
07-3A3EBIO-	Developmenta	al Biology	of Anir	nals			·				
Tl-152-m01	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (1) +	- Ü (3)							
	Method of ass	sessment		n examination (appr able for bonus	rox. 60 minutes)						
	other prerequ	other prerequisites				ses. Regular attendan for admission to asse		successful completion of exerci-			
	Referred to in	LPO I	§ 61 l	Nr. 5							

<b>Modules Chemist</b>	ry (12 ECTS credits)										
08-CH-BM-152-	General Chemistry	or St	udents of Biomedicine								
mo1	ECTS 8 Dur	ation	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	\	V (2) + V (2) + P (5)								
	Method of assessm		written examination (approx. 120 minutes) and assessment of practical skills during lab course (ungraded): Vortestate/Nach-								
			estate (pre and post-experiment oral exams; approx. 15 minutes each) and log (approx. 3 to 5 pages) Assessment offered: Once a year, summer semester								
08-0C-BM-152-	Advanced Organic Chemistry for Students of Biomedicine										
mo1		ation	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	'	/ (3)			'	•				
	Method of assessm			(90 to 180 minutes) or							
			o) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (approx. 30 minutes)								
Modules Physics	o ECTS credits)										
11-EFNF-152-mo1	Introduction to Physics for Students of other Disciplines										
11-EFNF-152-11101	<del></del>	ation	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		/ (4) + V (3)	Method of Stading	idilicited gidde	Modulitevel	undergraduate				
			written examination (60	o to 120 minutes)							
					conjunction with No. I	2nd letter d) and No.	l 1st letter d) of annex 1 to the				
				annex 2 to the APOLmCh							
11-PFNF-152-m01	Qualification goal: scientific competences  Laboratory Course Physics for Students of other Disciplines										
11-PFNF-152-11101	<u> </u>	ECTS 3 Duration 1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses		P (4)	Method of grading	ilot) successibility comp	neted   Modulitevel	undergraduate				
	Method of assessm		· · ·	t with oral test (approx. 1	5 minutes, during expe	riments) and b) writte	n examination (approx. 90 minu-				
		t	a) practical assignment with oral test (approx. 15 minutes, during experiments) and b) written examination (approx. 90 minutes).								
			each experiment compose repeated once.	rises preparation, perfor	mance and evaluation.	lest as well as perforr	mance of experiments can each				
	Participants and all			general transferable skill	s (ASO): 10 places (lotte	 erv)					
	cation of places		o, ao part or poot or ;	50aa	o ( 10 Q). 10 p.u.000 (10 t.	<b>,</b> ,					
	Additional Informat	_	according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the								
			APOLmCh and No. 4 of Qualification goal: scie	annex 2 to the APOLmCh							
Modules Mathema	atics/Statistics (r FCT		· <u> </u>	nune competences							
10-M-STAB-152-	Mathematics/Statistics (5 ECTS credits)  B-152- Statistics for Students of natural sciences and biomedicine										
mo1		ation	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		/ (2) + Ü (2)	metriod or grading	Tamerical Sidde	modulievel	anacigiaadate				
	Method of assessment   written examination (90 to 120 minutes)										
Bachelor's with 1 major					IMII Würzhurg • generated o	2-Aug-2025 • exam. reg. data r	ecord 82 300 - - H 2018 page 4 / 19				
Dacricior 5 With 1 major	5.0caicine (2010)				,mo maizbaig - generated o	202) Chaiii. icg. data i	200.0 02 300				

Modules Biochemi	stry and	Moleci	ılar Biolog	gy (20	ECTS credits)						
03-98-BCH-152-	Basic B	iochen	nistry and	Molec	ular Biology						
moi	$\overline{}$	10	Duratio		2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	ļ.	V (5) +	V (5) + S (4) + Ü (4)						
	Method	l of ass	essment		written examination (45 to 90 minutes) creditable for bonus						
	other p	rerequi	sites	Admis	Admission prerequisite to assessment: presentations.						
03-98-BCHF-152- m01	Advanc	Advanced Biochemistry and Molecular Biology									
	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses				/ (4) + S (1) + Ü (6) Module taught in: German and/or English						
	Method of assessment			If ann of one didate	ounced by the lect candidate each (	urer at the beginning			replaced by an oral examination ates (approx. 20 minutes per can-		
	other p	rerequi	sites	Admis	sion prerequisite	to assessment: prese	ntations.		_		
<b>Modules Anatomy</b>	and Path	ology	(15 ECTS c	redits)							
03-98-ANA-1-152-	Anatomy and Cell Biology										
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	,	V (3) + S (2) + Ü (2)							
	Method	d of ass	essment	written examination (60 to 90 minutes) Assessment offered: Once a year, winter semester							
03-98-ANA-2-152-	Histolo	gy						·			
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (1) +	P (5)			,			
	Method of assessment					prox. 60 minutes) and ce a year, summer sei		cal skills (approx. 60 mir	nutes), weighted 1:2		
03-98-APA-152-	Genera	l Patho	logy	•							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (3) +	- P (1)			*			
	Method	Method of assessment			n examination (60	to 90 minutes) and s	uccessful completion	of practical exercises (un	graded)		

Modules Physiolog	gy (10 EC	TS cred	its)								
03-98-PHY1-152-	Human	Physio	logy 1								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	S		V (3) -	+ Ü (2)						
	Method	l of ass	essment		n examination (app sment offered: Onc	orox. 60 minutes) e a year, winter semester		-			
03-98-PHY2-152-	Human	Physio	logy 2								
mo1	ECTS	5	Duratio	n	1 semester	undergraduate					
	Courses	S		V (3) ·	+ Ü (2)		*				
	Method	l of ass	essment		n examination (app sment offered: Onc	orox. 60 minutes) se a year, summer semester					
Modules Pharmaco	ology and	d Toxico	ology (5 E	CTS cr	edits)						
03-98-APT-152-	Pharma	cology	and Toxi	cology							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	S		V (5)							
			essment	of one	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (20 to 30 minutes) or an oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate).						
<b>Modules Microbiol</b>	ogy, Viro	ology a	nd Immun	ology	(5 ECTS credits)						
03-98-MVI-152-	General Microbiology, Virology, Immunology										
mo1	ECTS 5 Duratio			1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	S		V (1.5	) + V (1.5) + V (1.5)						
	Method	l of ass	essment	If ann	written examination (approx. 90 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (20 to 30 minutes) or an oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate).						
Modules Advanced	Lab Cou	rse (8 I	ECTS cred	its)							
03-98-IPP-152-m01	Project	Work i	n a Resea	rch Lal	ooratory						
	ECTS	8	Duratio	n	1 semester	Method of grading (not) successfully co	ompleted   Modul level	undergraduate			
	Courses			R (12) Modu	le taught in: Germa	n/English					
	Method	Method of assessment			presentation (20 to 30 minutes) as well as log (10 to 15 pages) or, where applicable, project proposal (approx. 5 pages) Language of assessment: German or English						
	other pi	rerequi	_			ee programme coordinator required.					
	Additio	Additional Information			onal information o	n module duration: 6 to 8 weeks.					

<b>Compulsory Electiv</b>	res (35 ECTS cred	dits)								
Compulsory Electiv	es Cell Biology,	Genetics	and B	ioinformatics (10 E0	CTS credits)					
03-98-PZB1-172-	Cell Biology - F	ocus sigi	nal trai	nsduction and stem	cells					
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		P (5) + S (1) Module taught in: German/English							
	Method of asse	essment	a) written examination (45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) Students will be informed about the type and length of assessment at the beginning of the course. Language of assessment: German and/or English							
	other prerequis	ites	May r	ot be combined wit	:h 03-98-PZB2 or 03-	98-PZB3.				
	Participants an cation of places		Biome	edizin (Biomedicine	) Bachelor's: 18 plac	es.				
	Additional Info	rmation	Additional information on module duration: 2 weeks, full time.							
03-98-PZB2-172-	Cell Biology - F	ocus cyto	skelet	on and microscopic						
mo1	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		P (5) - Modu	S (1) le taught in: Germa	n/English					
	Method of asse	essment	b) ora Stude	ents will be informed	e candidate each (2	length of assessment	at the beginning of the c	course.		
	other prerequis	ites	May r	May not be combined with 03-98-PZB1 or 03-98-PZB3.						
	Participants an cation of places		Biomedizin (Biomedicine) Bachelor's: 8 places.							
	Additional Info	rmation	Additional information on module duration: 2 weeks, full time.							
03-98-PZB3-172-	Cell Biology - F	ocus imn	nunolo	gy						
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		P (5) + S (1) Module taught in: German/English							
	Method of asse	essment								
	other prerequis	ites			:h 03-98-PZB1 or 03-					
	Participants an cation of places	d allo-			) Bachelor's: 12 plac					
	Additional Info	rmation	Addit	ional information or	n module duration: 2	weeks, full time.				

oduction	assessment	V (2) + Ü (3) written examination (30 prox. 15 minutes) and w		-	Modul level	undergraduate					
oduction	assessment	written examination (30 prox. 15 minutes) and w			·						
oduction		prox. 15 minutes) and w									
5 5		be repeated once.	vritten examination (30 to 90 minutes) and successful completion of exercises (ungraded), oral test during experiments (aprox. 15 minutes) and written examination (90 minutes).  ach experiment comprises preparation, performance and evaluation. Test as well as performance of experiments can each be repeated once.								
	Introduction to Bioinformatics										
	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
ses		V (0.5) + Ü (4)			'	-					
nod of as		a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes) Students will be informed about the type and length of assessment at the beginning of the course.									
crobiolo	logy, Virology	and Immunology (10 EC	CTS credits)								
tical Cou	ourse in Immu	inology and Virology									
5 5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
ses		P (5) + S (1) Module taught in: Germ	an/English								
nod of as		a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes) Students will be informed about the type and length of assessment at the beginning of the course.									
tional Inf	nformation	Additional information of	on module duration: 2 v	veeks, full time.		_					
tical Cou	ourse in Mole	cular Infection Biology			'						
5 5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
ses		P(5) + S(1) Module taught in: Germ	an/English								
nod of as		b) log (10 to 20 pages) of c) oral examination of or d) oral examination in g e) presentation (20 to 30 Students will be informed)	or ne candidate each (20 roups of up to 3 candid o minutes) ed about the type and l	ates (approx. 20 minutes ength of assessment at th	•	ourse.					
100			b) log (10 to 20 pages) of c) oral examination of of d) oral examination in ge) presentation (20 to 3) Students will be informed.	b) log (10 to 20 pages) or c) oral examination of one candidate each (20 d) oral examination in groups of up to 3 candid e) presentation (20 to 30 minutes) Students will be informed about the type and le	b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes e) presentation (20 to 30 minutes) Students will be informed about the type and length of assessment at the	b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or					

03-98-PMo-	Practic	al Cour	se in Mole	cular I	Microbiology						
Mi-182-mo1	ECTS	5	Duratio	n	1 semester	Method of grading nu	ımerical grade	Modul level	undergraduate		
	Course	S			P (5) + S (1) Module taught in: German/English						
	Method	d of ass	essment	b) log c) ora d) ora e) pre	a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes) Language of assessment: German or English						
	Additio	nal Info	ormation	Additi	onal information o	on module duration: 2 we	eks, full time.				
03-98-lmmK-182-		ts in In	nmunolog								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading   nu	ımerical grade	Modul level	graduate		
	Courses			Modu	- S (2.5) le taught in: Germa e type: alternative						
	Method of assessment			a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) Language of assessment: German and/or English							
	Modules successfully completed			03-98	-MVI						
	Participants and allo- cation of places		Biome	Biomedizin (Biomedicine) Bachelor's: 16 places.							
Advanced Compuls Students may also gie" ("Infection and	take mo	dules fi			ellbiologie, Geneti	k und Bioinformatik" ("Ce	ll Biology, Genetics and Bio	Informatics") a	nd "Infektiologie und Immunolo-		
03-98-PPT-152-	Practic	al Cour	se in Phar	macol	ogy and Toxicolog	у					
mo1	ECTS	5	Duratio		1 semester	Method of grading nu	ımerical grade	Modul level	undergraduate		
	Courses			P (3) +	- S (1) le taught in: Germa	an/English					
	Method of assessment			presentation of practical work (approx. 30 minutes) and application (preparing a scientific publication; approx. 1.5 hours), weighted 7:3							

03-98-PPC-152-	Pathop	hysiolo	gy and Pa	athobi	ochemistry						
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (3) -							
					Module taught in: German/English						
	Method	d of ass	essment	a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)							
					Students will be informed about the type and length of assessment at the beginning of the course.						
					age of assessment:						
03-98-RVZ-152-	$\overline{}$		7		perimental Biomedi						
mo1		5	Duration		1 semester	Method of grading   numerical grade	Modul level	undergraduate			
	Course	S		P (6)	l. t	· /F.· · · li-li					
	NA .1				le taught in: German						
	Method	or ass	essment	a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or							
				c) oral examination of one candidate each (20 to 30 minutes) or							
				d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or							
					e) presentation (20 to 30 minutes)						
						l about the type and length of assessment at the b	eginning of the c	course.			
	Additio	nal Info	rmation		lage of assessment:	n module duration: 2 weeks, full time.		_			
02 08 DE2 452					Laboratory	i module duration: 2 weeks, full time.					
03-98-PF2-152- mo1			1		·	Makka dafawadina kumaniaalawada	Madulland	Lundayaya du ata			
11101		5	Duration		1 semester	Method of grading   numerical grade	Modul level	undergraduate			
	Course	5		P (6) Module taught in: German/English							
	Method of assessment			practical assignment with presentation (approx. 10 minutes) and log (approx. 10 pages) Language of assessment: German or English							
	Additional Information			Additional information on module duration: 3 to 4 weeks, full time.							

o8-BGV-171-mo1	Imagin	g meth	ods in life	-scien	ces	-		1			
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2)	+ S (1)			•	•		
	Method	d of ass	essment	b) log c) ora d) ora e) pre f) pra	a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours)						
				Langu Asses	anguage of assessment: German and/or English ssessment offered: Once a year, winter semester						
	cation	of place			emie (Biochemis	try) Bachelor's: 25 places	5.				
03-98-PGN-182-	Introdu	ction to	Neurobi	ology							
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
				V (2)	*			,			
		Method of assessment				· ·					
03-98-PZB1-172-	Cell Biology - Focus signal transduction and stem cells										
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		P (5) + S (1) Module taught in: German/English							
	Method	Method of assessment a) b) Si			a) written examination (45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) Students will be informed about the type and length of assessment at the beginning of the course. Language of assessment: German and/or English						
	other p	rerequi	sites	May r	ot be combined	with 03-98-PZB2 or 03-98	B-PZB3.				
	Particip cation		nd allo- es	Biomedizin (Biomedicine) Bachelor's: 18 places.							
	Additio	nal Info	rmation	Addit	ional information	on module duration: 2 w	veeks, full time.				

03-98-PZB2-172-	Cell Biolog	y - Focus cyto	oskeleton and microsco	pic imaging							
mo1	ECTS 5	Duration	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		P (5) + S (1) Module taught in: Ger								
	Method of	assessment	b) oral examination of Students will be inform	a) written examination (45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) Students will be informed about the type and length of assessment at the beginning of the course. Language of assessment: German and/or English							
	other prere	quisites	May not be combined	with 03-98-PZB1 or 03-	98-PZB3.						
	Participant cation of p		Biomedizin (Biomedic	Biomedizin (Biomedicine) Bachelor's: 8 places.							
	Additional	Information	Additional information	on module duration: 2	weeks, full time.						
03-98-PZB3-172- m01	Cell Biolog	y - Focus imm	nunology	ology							
	ECTS 5	Duration		Method of grading	numerical grade	Modul level	undergraduate				
	Courses		P (5) + S (1) Module taught in: Ger								
	Method of	assessment	b) oral examination of Students will be inform	written examination (45 to 90 minutes) or							
	other prere	quisites	May not be combined	with 03-98-PZB1 or 03-	98-PZB2.		-				
	Participant cation of p	laces	Biomedizin (Biomedic	ine) Bachelor's: 12 plac	es.						
	Additional	Information	Additional information	on module duration: 2	weeks, full time.						
03-98-PGH-152-	Introduction to Genetics and Human Genetics										
mo1	ECTS 5	Duration		Method of grading	numerical grade	Modul level	undergraduate				
	Courses	,	V (2) + Ü (3)								
	Method of	assessment	prox. 15 minutes) and	written examination (9	o minutes).		oral test during experiments (ap-				
07-BI-152-m01	Introduction	n to Bioinfor	matics								
	ECTS 5	Duration		Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (0.5) + Ü (4)								
	Method of	assessment	d) oral examination in e) presentation (20 to	or one candidate each (2) groups of up to 3 cand 30 minutes)	o to 30 minutes) or idates (approx. 20 minute	•	ourse.				
Bachelor's with 1 major	Biomedicine (2018	3)	·	1	JMU Würzburg • generated o	o2-Aug-2025 • exam. reg. data r	ecord 82 300 - - H 2018 page 12 / 19				

03-98-PIV-152-m01	Dractic	al Caur	co in Imm	unalamia	nd Virolom;						
03-90-210-152-11101	ECTS		Duration			Method of grading   numerical grade	Modul level	undorgraduato			
		5	Duration		emester	Method of grading   numerical grade	Modul level	undergraduate			
	Course	S		P(5) + S(	Module taught in: German/English						
	Method	d of ass	essment		a) written examination (45 to 90 minutes) or o) log (10 to 20 pages) or						
				b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or							
					d) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or						
					e) presentation (20 to 30 minutes)						
				Students will be informed about the type and length of assessment at the beginning of the course.							
	Additio	nal Info	ormation	Additiona	ıl information o	n module duration: 2 weeks, full time.					
03-98-PMIB-152-	Practic	al Cour	ourse in Molecular Infection Biology								
mo1	ECTS	5	Duration	1 1 5	emester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S			P (5) + S (1) Module taught in: German/English						
						<u> </u>					
	Method	d of ass	essment			<sub>1</sub> 5 to 90 minutes) or					
				b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or							
				d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or							
				e) presentation (20 to 30 minutes)							
				Students will be informed about the type and length of assessment at the beginning of the course.							
	Additio	nal Info	ormation	Additional information on module duration: 2 weeks, full time.							
03-98-PMo-	Practic	al Cour	se in Mole	cular Mici	obiology		,				
Mi-182-mo1	ECTS	5	Duration	1 1 5	emester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		P(5) + S(							
					aught in: Germa						
	Method	d of ass	essment			<sub>1</sub> 5 to 90 minutes) or					
				b) log (10 to 20 pages) or							
				c) oral examination of one candidate each (20 to 30 minutes) or							
				d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or							
				e) presentation (20 to 30 minutes) Language of assessment: German or English							
	Additio	nal Info	ormation			n module duration: 2 weeks, full time.		-			
	1										

03-98-lmmK-182-	Conce	Concepts in Immunology											
mo1	ECTS	5	Duratio	n 1 semester		Method of grading	numerical grade	Modul level	graduate				
	Course	es		Modu	/ (1) + S (2.5) Module taught in: German/English Course type: alternatively S instead of Ü								
	Metho	d of asse	essment	b) log	tten examination (45 (10 to 20 pages) lage of assessment:	to 90 minutes) or German and/or Engl	ish						
	Modules successfully completed 03-98-MVI												
		pants an of place		Biome	edizin (Biomedicine)	Bachelor's: 16 place	25.						

# Key Skills Area (20 ECTS credits)

General Key Skills (5 ECTS credits)
In the area of general transferable skills, students may choose from the modules offered as part of the pool of general transferable skills (ASQ) of the University of Würzburg.

# Subject-specific Key Skills (15 ECTS credits)

03-98-FSQ-	Genetic Engineering and Biosafety										
GEN-152-m01	ECTS 1 Duration			1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	·S		V (1)							
	Method	d of asse		a) written examination (45 to 90 minutes) or							
				b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)							
				Students will be informed about the type and length of assessment at the beginning of the course.							
	Additional Information			Students MUST take this module.							
03-98-FSQ-	Laboratory Animal Sciences 1										
VTK1-152-m01	ECTS 2 Duratio		Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			V (2)							
	Method	d of asse	essment	written examination (approx. 90 minutes)							
03-98-FSQ-	Labora	tory Ani	mal Scier	ices 2							
VTK2-152-m01	ECTS 3 Duratio		Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			V (2) + P (1)							
	Method of assessment			written examination (approx. 90 minutes)							
	Additional Information			Equivalent to animal welfare qualification (GV-SOLAS (Society of Laboratory Animals) / FELASA category B).							

03-TM-BSTAT-181-	Biostatistics											
mo1	ECTS 2 Duration		า	1 semester	Method of grading (n	not) successfully completed	Modul level	graduate				
	Courses	S			) + S (0.5) le taught in: Germai	n or English		,				
	Method of assessment			oral examination (approx. 30 minutes) Language of assessment: German or English								
	other p	rerequis	sites	May r	ot be combined wit	h o3-TM-BIOM.						
03-98-FSQ-	Selecte	d Cours	ses from I	Biology	and Medicine 1							
MB1-182-m01	ECTS	2	Duration	<u> </u>	1 semester	Method of grading (n	not) successfully completed	Modul level	undergraduate			
	Courses	S		V (2)								
	Method	d of asse	essment		tten examination (4							
				c) ora d) ora	b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)							
	other p	rerequis	sites	Prior a	Prior approval from degree programme coordinator required.							
03-98-FSQ-	Selected Courses from Biology and Medicine 2											
MB2-182-m01	ECTS	2	Duration	1	1 semester	Method of grading (n	not) successfully completed	Modul level	undergraduate			
	Courses			V (2)								
	Method of assessment			a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)								
	other p	rerequis	sites	Prior a	Prior approval from degree programme coordinator required.							
03-98-FSQ-	Selecte	d Cours	ses from I	Biology	iology and Medicine 3							
MB3-182-mo1	ECTS	3	Duratio	1	1 semester	Method of grading (n	not) successfully completed	Modul level	undergraduate			
	Courses			V (3)	V (3)							
	Method of assessment			a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)								
	other prerequisites			Prior a	approval from degre	e programme coordinat	tor required.					

03-98-FSQ-	Selected Courses from other Faculties with a Biomedical Focus 1											
AF1-182-m01	ECTS	2	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	S	•	V (2)								
	Method	l of ass	essment	b) log c) ora d) ora	a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)							
	other p	rerequi	sites			ee programme coordi	nator required.					
03-98-FSQ-	•	•			aculties with a Bio	, -		1				
AF2-182-m01	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	S	'	V (3)	•	•		•				
	Method	l of ass	essment	a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes)								
	other p	rerequi	sites	Prior approval from degree programme coordinator required.								
03-98-FSQ-	Supervising Tutorials 1											
TUT1-182-m01	ECTS 2 Duratio		Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			T (2)	T (2)							
	Method of assessment											
	other prerequisites			Prior approval from degree programme coordinator required.								
03-98-FSQ-	Supervising Tutorials 2											
TUT2-182-m01	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			T (3)								
	Method	l of ass	essment	Log (2 to 3 pages)								
	other p			Prior approval from degree programme coordinator required.								
03-98-FSQ-		ising Tu	ıtorials 3									
TUT3-182-mo1	ECTS	3	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			T(3)								
	Method	l of ass	essment		to 3 pages)							
	other p	rerequi	sites	Prior	Prior approval from degree programme coordinator required.							

03-98-FSQ-	Journal Club 1											
LIT1-152-m01	ECTS 2 Duration		1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			S (1) Modu	S (1) Module taught in: German/English							
	Method	of asse	essment		presentation (approx. 15 minutes) Language of assessment: German or English							
03-98-FSQ-	Journal Club 2											
LIT2-152-m01	ECTS	2	Duration	1	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		S (1) Modu	le taught in: German	n/English						
	Method	of asse	essment		ntation (approx. 15 nage of assessment:							
03-98-FSQ-	Excursi	on 1										
EXK1-152-m01	ECTS	1	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	5		E (1)								
	Method	of asse	essment	report (1 to 2 pages)								
	other pr	rerequis	sites	Prior approval from degree programme coordinator required.								
03-98-FSQ-	Excursion 2											
EXK2-152-m01	ECTS	1	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			E (1)								
				report (1 to 2 pages)								
	other pr			Prior approval from degree programme coordinator required.								
03-98-FSQ-		tional L	aborator									
F2PR-152-m01		2	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (2)								
				Log (5 to 10 pages)								
				Additional information on module duration: 2 weeks								
03-98-FSQ-				omedical Research 1								
F2PR1-152-m01	ECTS	3	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (4)								
					to 10 pages)	,						
	other pr						R2 nor with 03-98-FSQ-F2PR3.					
	Additio	nal Info	rmation	Additi	onal information on	module duration: 2 v	weeks, full time.					

03-98-FSQ-	Laboratory Course in Biomedical Research 2											
F2PR2-152-m01	ECTS 4	Duratio	n	1 semester	Method of grading	(not) successfully complete	d Modul level	undergraduate				
	Courses		P (6)		,		,					
	Method of as	sessment	Log (10	to 15 pages) and	talk (approx. 10 minu	tes)						
	other prerequ	iisites	May be	e combined neithe	r with 03-98-FSQ-F2P	R1 nor with 03-98-FSQ-F2PR3	•					
	Additional In	formation	Additio	onal information or	n module duration: 3	weeks, full time.						
03-98-FSQ-	Laboratory Course in Biomedical Research 3											
F2PR3-152-m01	ECTS 5	Duratio		1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate				
	Courses		P (8)									
	Method of as	sessment	Log (10	to 15 pages) and	talk (approx. 10 minu	tes)						
	other prerequ					R1 nor with 03-98-FSQ-F2PR2	•					
	Additional In	formation	Additio	onal information or	n module duration: 4	weeks, full time.						
03-98-FSQ-	Intercultural	Competen	ce									
IKK-152-m01	ECTS 3	Duratio		1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate				
	Courses		S (3)									
	Method of as	sessment			5 to 90 minutes) or							
				(10 to 20 pages) or	e candidate each (20	to an minutes) or						
						dates (approx. 20 minutes pe	r candidate) or					
			e) presentation (20 to 30 minutes)									
				nts will be informed	d about the type and	length of assessment at the b	peginning of the o	course.				
03-98-FSQ-	Personal Skills in Science											
NETW1-152-m01	ECTS 2	Duratio	n	1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate				
	Courses		V (2)					_				
	Method of as	sessment	a) written examination (45 to 90 minutes) or									
				b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or								
						dates (approx. 20 minutes pe	r candidate) or					
			e) pres	entation (20 to 30	minutes)							
				nts will be informed	d about the type and	length of assessment at the b	peginning of the o	course.				
03-98-FSQ-	Personal Skil	ls in Scien										
NETW2-152-m01	ECTS 3	Duratio		1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate				
	Courses		V (3)									
	Method of as	sessment	a) written examination (45 to 90 minutes) or									
		b) log (10 to 20 pages) or										
			c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or									
			e) pres	entation (20 to 30	minutes)		•					
			Studer	Students will be informed about the type and length of assessment at the beginning of the course.								

Thesis (15 ECTS credits)													
03-98-TH-152-m01	Bachel	Bachelor Thesis Biomedicine											
	ECTS	12	Duratio	n 1 semester		Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		No courses assigned to module Module taught in: German/English									
	Method	d of asse	essment	written thesis (20 to 40 pages) Language of assessment: German or English									
	Additio	nal Info	rmation	Time t	o complete: 10 week	KS.							
03-98-TK-152-m01	Colloqu	uium						'					
	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses				K (o) Module taught in: German/English								
	Method of assessment			oral examination of one candidate each (20 to 30 minutes) Language of assessment: German or English									