

# Subdivided Module Catalogue for the Subject

# Experimental medicine

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

> Examination regulations version: 2009 Responsible: Faculty of Medicine



## **Course of Studies - Contents and Objectives**

No translation available.



### **Abbreviations used**

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

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:

### ASP02009

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

### 06-Dec-2011 (2011-109)

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



# The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page			
Compulsory Courses (30 EC	TS credits)	•					
03-EM-MVH-092-m01	Microbiology, Virology, Hygiene	5	NUM	10			
03-EM-PA-092-m01	Pathology	5	NUM	12			
03-EM-PT-092-m01	Pharmacology and Toxicology	5	NUM	13			
03-EM-MP-092-m01	Molecular biological methods	15	NUM	9			
Compulsory Electives (60 E	CTS credits)						
Practical Experimental Me	edicine (45 ECTS credits)						
03-EM-InIm-092-m01	Infection and Immunity	15	NUM	5			
03-EM-MO-092-m01	Molecular Oncology	15	NUM	8			
03-EM-SFP-092-m01	Structure and Function of Proteins	15	NUM	19			
03-EM-KVB-092-m01	Cardiovascular Biology	15	NUM	6			
03-EM-NBP-092-m01	Neurobiology and Neurophysiology	15	NUM	11			
Subfield Theoretical Expe	Subfield Theoretical Experimental Medicine (15 ECTS credits)						
03-EM-Sem1-092-m01	Seminar Infection and Immunity	5	NUM	14			
03-EM-Sem2-092-m01	Seminar Molecular Oncology	5	NUM	15			
03-EM-Sem3-092-m01	Seminar Structure and Function of Proteins	5	NUM	16			
03-EM-Sem4-092-m01	Seminar Cardiovascular Biology	5	NUM	17			
03-EM-Sem5-092-m01	Seminar Neurobiology and Neurophysiology	5	NUM	18			
Thesis (30 ECTS credits)							
03-EM-MA-092-m01	Final Examination Experimental Medicine	30	NUM	7			



Module title					Abbreviation	
Infection and Immunity				-	03-EM-InIm-092-m01	
Module coordinator Module offere				Module offered by		
Institute of Virology and Immunobiology			logy	Faculty of Medicine		
ECTS Method of grading Only after succ		Only after succ. cor	cc. compl. of module(s)			
15 numerical grade						
Duration Module level Other p			Other prerequisites	5		
1 semester graduate						
Contents						
	•	•	g on their own small, w sults of the laboratory p		lab project in the area of infectie e seminar.	

### Intended learning outcomes

Participating in clinically-oriented research projects, students gain initial hands-on experience. They reinforce previously acquired lab skills, acquire new lab techniques, and learn how to apply theoretical knowledge in the lab. Students gain expertise in the analysis and presentation of raw data.

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

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 03-EM-InIm-1-092: P (no information on SWS (weekly contact hours) and course language available)
- 03-EM-InIm-2-092: K (no information on SWS (weekly contact hours) and course language available)

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component o3-EM-InIm-1-092: Practical Training Infection and Immunity

- 10 ECTS, Method of grading: numerical grade
- term paper (ready-to-publish written summary of results of experiments, minimum 10 pages)

Assessment in module component 03-EM-InIm-2-092: Colloquium Infection and Immunity

Assessment in indude component o3-Em-inin-2-092: Conoquium infection and immunity
• 5 ECTS, Method of grading: numerical grade
• oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)
Allocation of places
Additional information
Workload
Teaching cycle
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Experimental medicine (2009)



Module title					Abbreviation	
Cardiovascular Biology					03-EM-KVB-092-m01	
Module coordinator Module offered by						
holder of the Chair of Experimental Biomed			medicine	Faculty of Medicine		
ECTS Method of grading Only a			Only after succ. compl. of module(s)			
15	nume	rical grade				
Duratio	on	Module level	Other prerequisites	ther prerequisites		
1 seme	ster	graduate				
Conten	its				_	
Students spend 4 to 6 weeks working on their own small, well-defined scientific lab project in the area of cardio-vascular biology and present the results of the laboratory project at the Institute seminar.						
Intend	ed lear	ning outcomes				

Participating in clinically-oriented research projects, students gain initial hands-on experience. They reinforce previously acquired lab skills, acquire new lab techniques, and learn how to apply theoretical knowledge in the lab. Students gain expertise in the analysis and presentation of raw data.

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

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 03-EM-KVB-1-092: P (no information on SWS (weekly contact hours) and course language available)
- 03-EM-KVB-2-092: K (no information on SWS (weekly contact hours) and course language available)

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component o3-EM-KVB-1-092: Practical Training Cardiovascular Biology

- 10 ECTS, Method of grading: numerical grade
- term paper (ready-to-publish written summary of results of experiments, minimum 10 pages)

Assessment in module component 03-EM-KVB-2-092: Colloquium Cardiovascular Biology
5 ECTS, Method of grading: numerical grade
oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)
Allocation of places
Additional information
Workload
Teaching cycle
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Experimental medicine (2009)



Module title					Abbreviation
Final Examination Experimental Medicine			ine		03-EM-MA-092-m01
Module coordinator Module offe			Module offered by		
ry non-	chairperson of examination committee of complem ry non-degree programme Experimentelle Medizin mental Medicine)			Faculty of Medicine	
ECTS	ECTS Method of grading Only after		Only after succ. con	npl. of module(s)	
30 numerical grade					
Duration Module level Other pr		Other prerequisites			
1 seme	ester	graduate			
Conter	Contents				

### Contents

Students conduct a scientific research project, using appropriate methods and adhering to the principles of good scientific practice. They document and discuss their work in a thesis and defend it in a final colloquium.

### **Intended learning outcomes**

Students are able to independently carry out scientific work according to the rules of good scientific practice. They are able to document and, where necessary, adjust their research as well as to interpret their findings in a larger context. Students are able to defend their work in front of a professional audience.

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

This module has 2 components; information on courses listed separately for each component.

- 03-EM-MA-2-092: K (no information on language and number of weekly contact hours available)
- 03-EM-MA-1-092: A (no information on language and number of weekly contact hours available)

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole..

### Assessment component to module component 03-EM-MA-2-092: Kolloquium zur Masterarbeit

- 5 ECTS credits, method of grading: numerical grade
- Abschlusskolloquium (approx. 45 minutes)
- Only after succ. compl. of module component(s): Teilmodul 03-EM-MA-2 setzt Bestehen von Teilmodul 03-EM-MA-1 voraus.

### Assessment component to module component 03-EM-MA-1-092: Masterarbeit "Experimentelle Medizin"

- 25 ECTS credits, method of grading: numerical grade
- written thesis

### Allocation of places

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### **Additional information**

Additional information listed separately for each module component.

- 03-EM-MA-1-092: Additional information on module duration: 6 months.
- 03-EM-MA-2-092: --

### Workload

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### **Teaching cycle**

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

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### Module appears in

Master's with 1 major Experimental medicine (2009)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. da-	page 7 / 19
	ta record Master (120 ECTS) Experimentelle Medizin - 2009	



Module title Abbreviation					
Molecu	ılar On	cology			03-EM-MO-092-m01
Module coordinator				Module offered by	1
nolder	of the (	Chair of Biochemistry an	d Molecular Biology		
ECTS	Meth	od of grading	Only after succ. con	pl. of module(s)	
15	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
ı seme	ster	graduate			
Conten	its				
artici; reviou	oating i		new lab techniques,	and learn how to ap	s-on experience. They reinforce oply theoretical knowledge in the
Course	<b>s</b> (type	, number of weekly conta	act hours, language –	if other than Germ	an)
compo • c	nent. 3-EM- <i>N</i>	MO-1-092: P (no informat	ion on SWS (weekly c	ontact hours) and o	listed separately for each modul course language available) course language available)
		sessment (type, scope, la ion on whether module c	-		ation offered — if not every semo

term paper (ready-to-publish written summary of results of experiments, minimum 10 pages)
Assessment in module component 03-EM-MO-2-092: Colloquium Molecular Oncology
5 ECTS, Method of grading: numerical grade
oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)
Allocation of places
Additional information
Workload
Teaching cycle
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Experimental medicine (2009)



Modul	Module title Abbreviation					
Moleci	Molecular biological methods 03-EM-MP-092-m01					
Modul	e coord	inator		Module offered by		
Institu	te of Hv	giene and Microbiology /	' RV7	Faculty of Medicine		
ECTS		od of grading	Only after succ. com	· · · · · · · · · · · · · · · · · · ·		
15						
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	ıts					
		plete a four-week, full-tinns, cell biology, microsco			h a focus on DNA, RNA, bioinfors.	
Intend	ed lear	ning outcomes				
		nave developed a deep k gy. They are able to discu		ental analysis/inves	tigative methods of molecular	
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	ın)	
P (no i	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
term p	aper (w	ritten elaboration of lab r	eports, minimum 20	pages total)		
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	oad					
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regu	lations for teaching-c	degree programmes)		
Modul	e appea	rs in				
Master	Master's degree (1 major) Experimental medicine (2009)					



Module	Module title Abbreviation						
Microb	iology,	Virology, Hygiene			03-EM-MVH-092-m01		
Module coordinator				Module offered by			
Institut	e of Hv	giene and Microbiology		Faculty of Medicine			
ECTS		od of grading	Only after succ. com	•			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts		,				
Founda candid			medicine in microbio	ology, virology and h	ygiene with examination of one		
Intende	ed lear	ning outcomes					
Studen	ts gain	a deeper understanding	of infection and imm	unity with a view to	research application.		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)		
V (no ir	nformat	tion on SWS (weekly cont	act hours) and cours	e language available	2)		
		sessment (type, scope, la			tion offered — if not every seme-		
oral exa	aminat	ion of one candidate eac	h (approx. 25 minute:	5)			
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
Teachi	ng cycl	e					
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)			
				-			
Module	e appea	ars in					
Master	's degr	ee (1 major) Experimenta	l medicine (2009)				
Master	Master's degree (1 major) Experimental medicine (2013)						



Module title Abbreviation						
Neurobiolog	y and Neurophysiolog	03-EM-NBP-092-m01				
Module coor	dinator		Module offered	by		
holder of the	Chair of Clinical Neuro	obiology	Faculty of Medic	ine		
ECTS Meth	od of grading	Only after succ. cor	npl. of module(s)			
15 num	erical grade					
Duration	Module level	Other prerequisites	<b>3</b>			
1 semester	graduate					
Contents						
				tific lab project in the area of neuro		
		oresent the results of the	laboratory projec	ct at the Institute seminar.		
ntended lea	rning outcomes					
ab. Students	gain expertise in the	analysis and presentation presentation ontact hours, language –	on of raw data.	apply theoretical knowledge in the rman)		
omponent. <ul><li>o3-EM</li><li>o3-EM</li></ul>	NBP-1-092: P (no info NBP-2-092: K (no info	rmation on SWS (weekly rmation on SWS (weekly	contact hours) ar contact hours) ar	ne listed separately for each module and course language available) and course language available)		
		e, language — if other th le can be chosen to earn		nination offered — if not every seme		
	stated otherwise, succ			dule components as specified be- ire successful completion of all ind		
• 10 ECT	S, Method of grading: aper (ready-to-publish	numerical grade written summary of resu	ults of experiment	robiology and Neurophysiology s, minimum 10 pages) logy and Neurophysiology		
Assessment  • 5 ECTS	, Method of grading: n	umerical grade sion of results of lab cou	ırse (approx. 15 to	20 minutes)		

**Additional information** 

Workload

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**Teaching cycle** 

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

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Module appears in



Modul	Module title Abbreviation						
Pathology 03-EM-PA-092-m01							
Modul	e coord	inator		Module offered by			
holder of the Chair of Pathology				Faculty of Medicine			
ECTS		od of grading	Only after succ. com				
5	nume	rical grade					
Durati	on	Module level	Other prerequisites				
1 seme	ester	graduate	-				
Conte	ıts						
Found	ations o	of clinical and theoretical	medicine in patholog	gy with examination	of one candidate each.		
Intend	ed lear	ning outcomes					
Studer	nts gain	a deeper understanding	of pathology with a v	iew to research app	lication.		
Course	es (type	, number of weekly conta	ct hours, language –	· if other than Germa	n)		
V (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	2)		
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-		
oral ex	aminat	ion of one candidate eacl	h (approx. 25 minutes	s)			
Alloca	tion of <sub> </sub>	places					
Additio	onal inf	ormation					
Worklo	oad						
Teachi	ng cycl	e					
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Modul	Module appears in						
Maste	Master's degree (1 major) Experimental medicine (2009)						
Masie	Master's degree (1 major) Experimental medicine (2013)						



Modul	Module title Abbreviation						
Pharm	Pharmacology and Toxicology 03-EM-PT-092-m01						
Modul	e coord	inator		Module offered by			
holder of the Chair of Pharmacology and Toxicology			nd Toxicology	Faculty of Medicine			
ECTS		od of grading	Only after succ. con	,			
5	+	rical grade					
Duratio	on	Module level	Other prerequisites				
2 seme	ester	graduate					
Conter	nts						
Founda date ea		of clinical and theoretical	medicine in pharma	cology and toxicolog	y with examination of one candi-		
Intend	ed lear	ning outcomes					
Studer	nts gain	a deeper understanding	of pharmacology and	d toxicology with a vi	iew to research application.		
Course	es (type	, number of weekly conta	ıct hours, language –	· if other than Germa	ın)		
V (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	<u>e)</u>		
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-		
oral ex	aminat	ion of one candidate eac	h (approx. 25 minute	s)			
Allocat	tion of	places					
Additio	onal inf	ormation					
Worklo	oad						
Teachi	Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	Module appears in						
	Master's degree (1 major) Experimental medicine (2009)						
	Master's degree (1 major) Experimental medicine (2013)						



Module	Module title Abbreviation					
Semina	Seminar Infection and Immunity 03-EM-Sem1-092-m01					
Module	e coord	linator		Module offered by		
Institut	te of Vi	rology and Immunobiolo	ogy	Faculty of Medicin	e	
ECTS	<del> </del>	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	1		
1 seme	ster	graduate				
Conten	ts					
by stud	dents, a				cussion and presentations/talks is covering the fields of virology	
Intend	ed lear	ning outcomes				
with ot individ	hers. S ual iss		al understanding of th	e most important th	ssional manner and to discuss it eories, principles and methods of	
		tion on SWS (weekly con				
Metho	d of as	sessment (type, scope,	language — if other th	an German, examin	ation offered — if not every seme-	
ster, in	format	ion on whether module	can be chosen to earn	a bonus)		
•		(approx. 15 to 20 minute	es) and written summa	ry (approx. 1 page)		
Allocat	ion of	places				
Additio	nal inf	ormation				
Workload						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				



Module title Abbreviation					
Seminar Mol	ecular Oncology			03-EM-Sem2-092-m01	
Module coor	dinator		Module offered by		
holder of the Chair of Biochemistry and Molecular Biology				,	
	od of grading	Only after succ. con	npl. of module(s)		
	erical grade				
Duration	Module level	Other prerequisites	Other prerequisites		
1 semester	graduate				
Contents					
				ussion and presentations/talks s covering the field of molecular	
Intended lea	rning outcomes				
dents are ab	e to evaluate relevant spe	cific information, to p	oresent it in a profes	e selected specialist area. Stusional manner and to discuss it eories, principles and methods of	
Courses (typ	e, number of weekly conta	ct hours, language –	- if other than Germa	in)	
S (no informa	ation on SWS (weekly cont	act hours) and cours	e language available	2)	
	sessment (type, scope, la tion on whether module ca			tion offered — if not every seme-	
presentation	(approx. 15 to 20 minutes	) and written summa	ry (approx. 1 page)		
Allocation of	places				
Additional in	formation				
Workload					
Teaching cycle					
Referred to i	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appe	Module appears in				
Master's degree (1 major) Experimental medicine (2009)					



Module title Abbreviation						
Seminar Structure and Function of Proteins					03-EM-Sem3-092-m01	
Module coordinator				Module offered by		
holder of the Chair of Structural Biology			V	Faculty of Medicine		
ECTS		od of grading	Only after succ. con			
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	semester graduate					
Conter	nts					
by stud	dents, a				ussion and presentations/talks s covering the field of structure	
Intend	ed learı	ning outcomes				
with ot	thers. S lual issu	tudents acquire a critical ues within the subject.	understanding of the	e most important the	esional manner and to discuss it eories, principles and methods of	
		, number of weekly conta				
` `		tion on SWS (weekly cont			·	
		<b>sessment</b> (type, scope, la ion on whether module c			ition offered — if not every seme-	
presen	tation (	approx. 15 to 20 minutes	and written summa	ry (approx. 1 page)		
Allocat	tion of p	olaces				
	-					
Additio	onal inf	ormation				
Worklo	oad					
Teaching cycle						
<del></del>						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	e appea	ars in				
Master	Master's degree (1 major) Experimental medicine (2009)					



Module	Module title Abbreviation					
Seminar Cardiovascular Biology					03-EM-Sem4-092-m01	
Module coordinator				Module offered by		
holder of the Chair of Experimental Biomedicine			medicine	Faculty of Medicine		
ECTS		od of grading	Only after succ. com	•		
5	nume	rical grade		•		
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conten	its					
	dents, a				ussion and presentations/talks s covering the field of cardiovas-	
Intend	ed lear	ning outcomes				
dents a with ot individ	are able hers. S lual issu	e to evaluate relevant spe tudents acquire a critical ues within the subject.	cific information, to punderstanding of the	present it in a profes e most important the	e selected specialist area. Stusional manner and to discuss it cories, principles and methods of	
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	n)	
S (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
presen	tation (	approx. 15 to 20 minutes	) and written summa	ry (approx. 1 page)		
Allocation of places						
Additio	onal inf	ormation				
Worklo	oad					
Teaching cycle						
<del></del>						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	Master's degree (1 major) Experimental medicine (2009)					



Module	Module title Abbreviation					
Seminar Neurobiology and Neurophysiology					03-EM-Sem5-092-m01	
Module coordinator				Module offered by		
holder of the Chair of Clinical Neurobiology			logy	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. com	ipl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
by stuc	dents, a				ussion and presentations/talks s covering the field of neurobiolo-	
Intend	ed lear	ning outcomes				
dents a with ot individ	Advanced insights into the focuses chosen for the in-depth scientific study of the selected specialist area. Students are able to evaluate relevant specific information, to present it in a professional manner and to discuss it with others. Students acquire a critical understanding of the most important theories, principles and methods of individual issues within the subject.					
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	n)	
S (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
presen	tation (	approx. 15 to 20 minutes	) and written summa	ry (approx. 1 page)		
Allocat	Allocation of places					
	_					
Additio	onal inf	ormation				
Worklo	oad					
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
	<del>-</del>					
Module	e appea	ars in				
Master	Master's degree (1 major) Experimental medicine (2009)					



Module	Module title Abbreviation					
Structu	ıre and	Function of Proteins		03-EM-SFP-092-m01		
Module	e coord	inator		Module offered by		
holder	of the (	Chair of Structural Biology	y	Faculty of Medicine	e	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
15	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
					c lab project in the area of the ect at the Institute seminar.	
Intend	ed lear	ning outcomes				
Participating in clinically-oriented research projects, students gain initial hands-on experience. They reinforce previously acquired lab skills, acquire new lab techniques, and learn how to apply theoretical knowledge in the lab. Students gain expertise in the analysis and presentation of raw data.  Courses (type, number of weekly contact hours, language — if other than German)  This module comprises 2 module components. Information on courses will be listed separately for each module component.  o3-EM-SFP-1-092: P (no information on SWS (weekly contact hours) and course language available)  o3-EM-SFP-2-092: K (no information on SWS (weekly contact hours) and course language available)						
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)						
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.  Assessment in module component o3-EM-SFP-1-092: Practical Training Structure and Function of Proteins						
<ul> <li>10 ECTS, Method of grading: numerical grade</li> <li>term paper (ready-to-publish written summary of results of experiments, minimum 10 pages)</li> </ul>						
Assessment in module component og-EM-SFP-2-092: Colloquium Structure and Function of Proteins  • 5 ECTS, Method of grading: numerical grade  • oral presentation and discussion of results of lab course (approx. 15 to 20 minutes)						
				(арріолі 1) 10 21		
Allocation of places						

**Additional information** 

Workload

**Teaching cycle** 

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

Module appears in