

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Biomedicine as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Medicine

Responsible: Faculty of Biology

Examination regulations version: 2015

Examination regulations version: 2015

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **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 for the modules in this SFB: Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures: 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 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:

ASPO2015

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

13-Jul-2015 (2015-13) except for mandatory electives 03-98-FBM-172, 08-MBC-EMV-172 added in Fast Track procedure at a later time

24-Nov-2016 (2016-109) except for mandatory electives 03-98-FBM-172, 08-MBC-EMV-172 added in Fast Track procedure at a later time

06-Dec-2017 (2017-71)

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		Duration	(in semesters)	Method of grading		Module level	
	Courses	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 assessment							
	Only after successful completion of	if applicable						
	Other prerequisites	if applicable						
	Participants and allocation of places	if applicable						
	Additional information	if applicable						
	Referred to in LPO I	if applicable (examination regulations for teaching-degree programmes)						

Compulsory Courses (40 ECTS credits)								
Lab Course Model Organisms (20 ECTS credits)								
03-98-MMOD-152-m01	Model Organisms							
	ECTS	20	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + P (15) Module taught in: German/English						
	Method of assessment	Log (30 to 60 pages) Language of assessment: German or English Assessment offered: Once a year, winter semester						
	Additional Information	Additional information on module duration module block taught: 5 to 7 block sessions (1 week each).						
Advanced Lab Courses (20 ECTS credits)								
03-98-MFPB-152-m01	Advanced Laboratory Course in Biology							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10) Module taught in: German/English						
	Method of assessment	practical assignment with examination talk (approx. 20 to 30 minutes) and log (approx. 15 to 20 pages) Language of assessment: German or English						
	Modules successfully completed	03-98-MMOD						
	other prerequisites	Prior approval from Dean of Studies required.						
Additional Information	Additional information on module duration: no less than 8 weeks, full time.							
03-98-MFPM-152-m01	Advanced Laboratory Course in Medicine							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10) Module taught in: German/English						
	Method of assessment	practical assignment with examination talk (approx. 20 to 30 minutes) and log (approx. 15 to 20 pages) Language of assessment: German or English						
	Modules successfully completed	03-98-MMOD						
	other prerequisites	Prior approval from Dean of Studies required.						
Additional Information	Additional information on module duration: no less than 8 weeks, full time.							

Compulsory Electives (35 ECTS credits)								
Compulsory Electives I (15 ECTS credits)								
03-98-MV- KN-152-m01	Clinical Neurobiology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (2) Module taught in: English					
	Method of assessment		a) written examination (30 to 60 minutes) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or d) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English					
03-98-MVKB-152- m01	Cardiovascular Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German/English					
	Method of assessment		a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German or English Assessment offered: Once a year, winter semester					
03-98-MV- MO-152-m01	Molecular Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German/English					
	Method of assessment		a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German or English Assessment offered: Once a year, winter semester					

03-98-MV-SZ-152-m01	Stem Cell Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German/English					
	Method of assessment		a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German or English Assessment offered: Once a year, summer semester					
03-98-MVTF-152-m01	Tissue Engineering / Functional Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German/English					
	Method of assessment		a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German or English Assessment offered: Once a year, winter semester					
03-ONC-CLIN-152-m01	Clinical Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German or English					
	Method of assessment		a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English					

Compulsory Electives II (15 ECTS credits)								
At least one module must be graded.								
o8-MBC-RNAW-152-m01	RNA worlds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German and/or English						
o8-MBC-LCP-152-m01	Life cycle of proteins							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German and/or English						
o8-MBC-GST-152-m01	Genome stability							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German and/or English						

03-98-ImmM1-152-mo1	Immunology 1 BM							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or c) oral examination of one candidate each (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. Language of assessment: German or English Assessment offered: Winter semester only						
03-98-ImmM2-152-mo1	Immunology 2 BM							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) oral examination of one candidate each (30 to 60 minutes) or c) presentation (20 to 45 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 Assessment offered: Summer semester only						
03-98-VirM1-152-mo1	Virology 1 BM							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) oral examination of one candidate each (30 to 60 minutes) or c) 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. Language of assessment: German and/or English Assessment offered: Winter semester only						
03-98-VirM2-152-mo1	Virology 2 BM							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) oral examination of one candidate each (30 to 60 minutes) or c) 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. Language of assessment: German and/or English Assessment offered: Summer semester only						

03-98-Imm-For-152-m01	Advances in Immunology							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (3) Module taught in: German/English						
	Method of assessment	e) presentation (20 to 45 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						
07-MBI-B-152-m01	Bioinformatics B							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (2) Module taught in: German and/or English						
	Method of assessment	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						
07-MS-B-152-m01	Systems Biology B							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (2) Module taught in: German and/or English						
	Method of assessment	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						
07-MM1-B-152-m01	Infection Biology BM							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (2) Module taught in: German and/or English						
	Method of assessment	a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English						

07-MM2-B-152-m01	Pathogenicity of Microorganisms BM							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (2) Module taught in: English						
	Method of assessment	a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English						
07-MZE-BM-152-m01	Cell and Developmental Biology Master BM							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (1) + S (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English						
03-98-MHGS-152-m01	Human Genetics Seminar							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English						
03-98-MHGP-152-m01	Practical Course in Human Genetics							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: 4 weeks, full time.						

03-98-MVAND-152-m01	Biomedical courses from other programs							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (3) Module taught in: German/English Course type: alternatively P or S						
	Method of assessment	a) written examination (30 to 60 minutes) 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. Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-EMV-172-m01	Electron microscopy and image processing in structural biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
03-MBC-TG-161-m01	Tumor Genetics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
03-98-FBM-172-m01	Fluorescence methods in biomedicine							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (1) Module taught in: German/English						
	Method of assessment	a) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 30 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						

Compulsory Electives III (5 ECTS credits)								
03-98-MTUT2-152-m01	Knowledge Transfer / Tutoring							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) or f) preparing and supervising study groups/student lab courses (type and length/scope of assessment to be specified at the beginning of the course). Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
	other prerequisites	May only be taken as an alternative to MTUT3.						
03-98-MTUT3-152-m01	Knowledge Transfer / Tutoring							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (3) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) or f) preparing and supervising study groups/student lab courses (type and length/scope of assessment to be specified at the beginning of the course). Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
	other prerequisites	May only be taken as an alternative to MTUT2.						
03-98-MKM2-152-m01	Clinical Medicine							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German and/or English						
	other prerequisites	May only be taken as an alternative to MKM3.						

03-98-MKM3-152-m01	Clinical Medicine							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (3) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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. Language of assessment: German and/or English						
	other prerequisites	May only be taken as an alternative to MKM2.						
Thesis (45 ECTS credits)								
Research Practical Course (15 ECTS credits)								
03-98-MPPF-152-m01	Internship in a Research Lab							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (15) Module taught in: German/English						
	Method of assessment	Log (approx. 20 to 30 pages) or research proposal for thesis based on project (approx. 10 to 20 pages) Language of assessment: English						
	other prerequisites	Prior approval from Dean of Studies required.						
	Additional Information	Additional information on module duration: no less than 10 weeks, full time.						
Thesis and Colloquium (30 ECTS credits)								
03-98-MTH-152-m01	Master Thesis Biomedicine							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	No courses assigned to module Module taught in: German/English						
	Method of assessment	Master's thesis (approx. 30 to 60 pages) Language of assessment: English						
	Additional Information	Time to complete: 6 months.						
03-98-MKO-152-m01	Colloquium							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	K (0) Module taught in: German/English						
	Method of assessment	final colloquium (approx. 30 to 45 minutes) Language of assessment: English						