

## 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

Responsible: Faculty of Biology

Examination regulations version: 2009

Examination regulations version: 2009

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:

**ASPO2009**

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

**01-Dec-2011 (2011-108)**

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	<b>Module title</b>						
	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 (113 ECTS credits)								
Modules Biology (20 ECTS credits)								
07-3A3EBI-OT-102-m01	<b>Developmental Biology of Animals</b>							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (approx. 30 to 60 minutes) including multiple choice questions					
	other prerequisites		Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.					
07-1A1ZO-BM-102-m01	<b>Biology I - From Cells to Organisms</b>							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module has 4 components; information on courses listed separately for each component. <ul style="list-style-type: none"> <li>07-1A1ZO-4T-072: V + Ü (no information on language and number of weekly contact hours available)</li> <li>07-1A1ZO-NF-1Z-082, 07-1A1ZO-2E-BM-102, and 07-1A1ZO-3P-BM-092: V (no information on language and number of weekly contact hours available)</li> </ul>					
	Method of assessment		This module has the following 4 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole. <p><b>Assessment in module component 07-1A1ZO-4T-072: Das Tierreich (The Animal Kingdom)</b></p> <ul style="list-style-type: none"> <li>4 ECTS credits, numerical grading</li> <li>written examination (approx. 60 minutes)</li> <li>Additional prerequisites: admission prerequisite to assessment: regular attendance of and participation in exercises as well as successful completion of the respective exercises as specified at the beginning of the course.</li> </ul> <p><b>Assessment in module component 07-1A1ZO-NF-1Z-082: Die Zelle für das Nebenfach Biologie (The Cell for Biology Minors)</b></p> <ul style="list-style-type: none"> <li>1 ECTS credit, numerical grading</li> <li>written examination (approx. 60 minutes) including multiple choice questions</li> </ul> <p><b>Assessment in module component 07-1A1ZO-2E-BM-102: Evolution</b></p> <ul style="list-style-type: none"> <li>1 ECTS credit, pass / fail</li> <li>written examination (approx. 30 minutes) including multiple choice questions</li> </ul> <p><b>Assessment in module component 07-1A1ZO-3P-BM-092: Das Pflanzenreich (The Plant Kingdom)</b></p> <ul style="list-style-type: none"> <li>2 ECTS credits, numerical grading</li> <li>written examination (approx. 60 minutes)</li> </ul>					
	other prerequisites		By way of exception, additional prerequisites are listed in the section on assessments.					

07-2A2PH- BM-092-m01	<b>Biology II - Physiology of Organisms, genetics, neurobiology and behaviour</b>							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	<p>This module comprises 6 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>• 07-2A2PH-3TI-072: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>• 07-2A2PH-1PR-BM-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>• 07-2A2PH2PF-BM-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>• 07-2A2GNV-1G-BM-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>• 07-2A2GNV-2N-BM-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>• 07-2A2GNV-3V-BM-092: V (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	<p>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.</p> <p><b>Assessment in module component 07-2A2PH-3TI-072: Animal Physiology Animal Physiology</b></p> <ul style="list-style-type: none"> <li>• 3 ECTS, Method of grading: numerical grade</li> <li>• written examination (approx. 60 minutes, word problems and/or multiple choice questions)</li> <li>• Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> </ul> <p><b>Assessment in module component 07-2A2PH-1PR-BM-092: Basic Physiology of Prokaryotes</b></p> <ul style="list-style-type: none"> <li>• 1 ECTS, Method of grading: numerical grade</li> <li>• written examination (approx. 60 minutes) including multiple choice questions</li> </ul> <p><b>Assessment in module component 07-2A2PH2PF-BM-092: Plant Physiology</b></p> <ul style="list-style-type: none"> <li>• 1 ECTS, Method of grading: numerical grade</li> <li>• written examination (approx. 45 minutes)</li> </ul> <p><b>Assessment in module component 07-2A2GNV-1G-BM-092: Basic Genetics</b></p> <ul style="list-style-type: none"> <li>• 1 ECTS, Method of grading: numerical grade</li> <li>• written examination (approx. 30 minutes)</li> </ul> <p><b>Assessment in module component 07-2A2GNV-2N-BM-092: Basic Neurobiology</b></p> <ul style="list-style-type: none"> <li>• 1 ECTS, Method of grading: numerical grade</li> <li>• written examination (approx. 30 minutes)</li> </ul> <p><b>Assessment in module component 07-2A2GNV-3V-BM-092: Behavioural Biology</b></p> <ul style="list-style-type: none"> <li>• 1 ECTS, Method of grading: numerical grade</li> <li>• written examination (approx. 30 minutes, word problems and/or multiple choice questions)</li> </ul>						
other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							

Modules Chemistry (12 ECTS credits)								
o8-CH-BM-102-m01	<b>General chemistry for students of biomedicine</b>							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>o8-AC-NF-1-102: V (no information on SWS (weekly contact hours) and course language available)</li> <li>o8-IOC-1-102: V (no information on SWS (weekly contact hours) and course language available)</li> <li>o8-CH-BMP-1-102: P (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	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. <p><b>Assessment in module component o8-AC-NF-1-102:</b> Introduction to Inorganic Chemistry for Students of Biology, Medicine and Dentistry</p> <ul style="list-style-type: none"> <li>3 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 60 minutes)</li> </ul> <p><b>Assessment in module component o8-IOC-1-102:</b> Organic Chemistry for students of medicine, biomedicine, dental medicine, engineering and natural science</p> <ul style="list-style-type: none"> <li>3 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 60 minutes)</li> </ul> <p><b>Assessment in module component o8-CH-BMP-1-102:</b> Practical chemistry course for students of biomedicine</p> <ul style="list-style-type: none"> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 2 to 5 pages)</li> <li>Assessment offered: once a year, summer semester</li> <li>Only after successful completion of module components: Successful completion of module component o8-AC-NF-1 or o8-IOC-1 is a prerequisite for participation in module component o8-CH-BMP-1.</li> </ul>						
	Participants and allocation of places	Information on the allocation of places will be listed separately for each module component. <ul style="list-style-type: none"> <li>o8-CH-BMP-1-102: --</li> <li>o8-AC-NF-1-102: Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.</li> <li>o8-IOC-1-102: Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.</li> </ul>						
o8-OC-BM-102-m01	<b>Organic Chemistry 2 for students of biomedicine</b>							
	ECTS	4	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (approx. 30 minutes)						
Modules Physics (10 ECTS credits)								
11-EFNF-072-m01	<b>Introduction to Physics for Students of Non-physics-related Minor Subjects</b>							
	ECTS	7	Duration	2 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 120 minutes)						
	Participants and allocation of places	Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.						
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11-PFNF-072-m01	<b>Practical Course Physics for Students of Non-physics-related Minor Subjects</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) oral test (approx. 15 minutes) during experiment and b) ungraded written examination (approx. 90 minutes)						
	Participants and allocation of places	Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.						
<b>Modules Mathematics/Statistics (5 ECTS credits)</b>								
10-M-STAB-111-m01	<b>Statistics for students of natural sciences and biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 to 120 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in accordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective details at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew and have to register anew, too.						
<b>Modules Biochemistry (21 ECTS credits)</b>								
03-98-BCH-092-m01	<b>Basic Biochemistry and Molecular Biology</b>							
	ECTS	11	Duration	2 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 45 minutes) and 2 presentations (approx. 10 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) and 2 presentations (approx. 10 minutes each) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and 2 presentations (approx. 10 minutes each), weighted 6:1:1 (written/oral examination : presentation : presentation)						
	other prerequisites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in accordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective details at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew and have to register anew, too.						

03-98-BCHF-092-mo1	<b>Advanced Biochemistry and Molecular Biology</b>							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 45 minutes) and presentation (approx. 20 minutes) and log (5 to 10 pages) or b) oral examination of one candidate each (approx. 20 minutes) and presentation (approx. 20 minutes) and log (5 to 10 pages) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and presentation (approx. 20 minutes) and log (5 to 10 pages), weighted 2:1:1 (written/oral examination : presentation : log)						
other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.							
<b>Modules Anatomy (10 ECTS credits)</b>								
03-98-ANA-092-mo1	<b>Anatomy and Histology</b>							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>03-98-ANA-1-092: S + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>03-98-ANA-2-092: S + V + P (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	<p>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.</p> <p><b>Assessment in module component 03-98-ANA-1-092: Anatomy and Cell Biology</b> Anatomy and Cell Biology</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: numerical grade</li> <li>a) written examination (approx. 60 minutes) and presentation (approx. 10 minutes) or b) oral examination of one candidate each (approx. 20 minutes) and presentation (approx. 10 minutes) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and presentation (approx. 10 minutes)</li> <li>Assessment offered: once a year, winter semester</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.</li> </ul> <p><b>Assessment in module component 03-98-ANA-2-092: Histology</b> Histology Histology</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: numerical grade</li> <li>a) 2 written examinations (approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) and presentation (approx. 10 minutes) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and presentation (approx. 10 minutes)</li> <li>Assessment offered: once a year, summer semester</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.</li> </ul>						
other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							

<b>Modules Physiology (10 ECTS credits)</b>							
03-98-PHY-092-m01	<b>Human Physiology 1+2</b>						
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	V + V + Ü + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	2 written examinations (approx. 60 minutes each)					
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.					
<b>Modules Pharmacology and Toxicology (7 ECTS credits)</b>							
03-98-APT-092-m01	<b>Pharmacology and Toxicology</b>						
	ECTS	7	Duration	2 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	V + S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) written examination (approx. 60 minutes) and presentation (approx. 10 minutes) or b) oral examination of one candidate each (approx. 20 minutes) and presentation (approx. 10 minutes) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and presentation (approx. 10 minutes)					
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.					
<b>Modules Microbiology, Virology and Immunology (5 ECTS credits)</b>							
03-98-MVI-092-m01	<b>General Microbiology, Virology, Immunology</b>						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	V + V + V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) written examination (approx. 60 minutes) and presentation (approx. 10 minutes) or b) oral examination of one candidate each (approx. 20 minutes) and presentation (approx. 10 minutes) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and presentation (approx. 10 minutes)					
<b>Modules Pathology (3 ECTS credits)</b>							
03-98-APA-092-m01	<b>Pathology</b>						
	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) written examination (approx. 30 minutes) and presentation (approx. 10 minutes) or b) oral examination of one candidate each (approx. 20 minutes) and presentation (approx. 10 minutes) or c) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) and presentation (approx. 10 minutes)					
<b>Modules Advanced Lab Course (10 ECTS credits)</b>							
03-98-IPP-092-m01	<b>Project work in research laboratory</b>						
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level   undergraduate
	Courses	R (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	log (10 to 15 pages) and presentation (approx. 15 minutes)					
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.					



Thesis (12 ECTS credits)							
03-98-THK-092-m01	<b>Bachelorthesis Biomedicine</b>						
	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	This module has 2 components; information on courses listed separately for each component. <ul style="list-style-type: none"> <li>• 03-98-THK-2-092: K (no information on language and number of weekly contact hours available)</li> <li>• 03-98-THK-1-092: A (no information on language and number of weekly contact hours available)</li> </ul>					
	Method of assessment	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.. <p><b>Assessment component to module component 03-98-THK-2-092:</b> Kolloquium</p> <ul style="list-style-type: none"> <li>• 2 ECTS credits, method of grading: numerical grade</li> <li>• oral examination of on candidate each (approx. 20 minutes)</li> </ul> <p><b>Assessment component to module component 03-98-THK-1-092:</b> Bachelorthesis Biomedizin</p> <ul style="list-style-type: none"> <li>• 10 ECTS credits, method of grading: numerical grade</li> <li>• written thesis (20-40 pages)</li> </ul>					
Compulsory Electives (35 ECTS credits)							
Compulsory Electives I (5 ECTS credits)							
03-98-PZB-092-m01	<b>Cell Biology</b>						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	R + S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)					
03-98-PGH-092-m01	<b>Introduction to genetics and human genetics</b>						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	P + V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)					
Compulsory Electives II (5 ECTS credits)							
03-98-PZB-092-m01	<b>Cell Biology</b>						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level   undergraduate
	Courses	R + S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)					

03-98-PGH-092-m01	<b>Introduction to genetics and human genetics</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	P + V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
07-MS2BI-092-m01	<b>Bioinformatics</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (30 to 60 minutes) and/or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups						
03-98-RVZ-092-m01	<b>Introduction to methods in experimental biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
03-98-PGN-092-m01	<b>Introductory Neurobiology for students of biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						
<b>Compulsory Electives III (10 ECTS credits)</b>								
03-98-PIM-092-m01	<b>Practical Course in Immunology for students of biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	P + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						

03-98-PMV-092-m01	<b>Practical Course in Microbiology and Virology for students of biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	P + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.							
03-98-PPC-092-m01	<b>Pathophysiology and pathobiochemistry with clinical demonstrations for students of biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
other prerequisites	Admission prerequisite to assessment: regular attendance of clinical demonstrations as specified at the beginning of the course.							
<b>Compulsory Electives IV (15 ECTS credits)</b>								
03-98-PZB-092-m01	<b>Cell Biology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	R + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
03-98-PGH-092-m01	<b>Introduction to genetics and human genetics</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	P + V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
07-MS2BI-092-m01	<b>Bioinformatics</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (30 to 60 minutes) and/or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups						

03-98-RVZ-092-m01	<b>Introduction to methods in experimental biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
03-98-PGN-092-m01	<b>Introductory Neurobiology for students of biomedicine</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.							
03-98-PPT-092-m01	<b>Practical Course in Pharmacology and Toxicology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	P + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	oral examination in groups of up to 3 candidates in the form of a presentation (approx. 30 minutes) and preparation of a scientific publication (approx. 1.5 hours)						
other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.							
03-98-PBG-092-m01	<b>Bacterial genetics - Infectiology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						
Participants and allocation of places	Biochemistry Bachelor's: no restrictions. Biochemistry Master's: 4 places. Places will be allocated by lot.							
03-98-PMP-092-m01	<b>Parasitology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.							

03-98-PGS-092-m01	<b>Structural Biology</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + S + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)					
03-98-PF2-092-m01	<b>Practical course in a research laboratory</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		log (5 to 10 pages) and presentation (approx. 10 minutes)					
other prerequisites		Prior approval by degree programme coordinator required. Regular attendance of courses (lectures excluded) as specified at the beginning of the course is an admission prerequisite to assessment.						
<b>Subject-specific Key Skills (15 ECTS credits)</b>								
03-98-FSQ-FACH-092-m01	<b>Laboratory Expertise in Biosciences</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>03-98-FSQ-GEN-1-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>03-98-FSQ-Tier-1-092: V + P (no information on SWS (weekly contact hours) and course language available)</li> </ul>					
	Method of assessment		<p>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.</p> <p><b>Assessment in module component 03-98-FSQ-GEN-1-092:</b> Genetic Engineering and Biosafety</p> <ul style="list-style-type: none"> <li>1 ECTS, Method of grading: (not) successfully completed</li> <li>written examination (approx. 15 minutes)</li> </ul> <p><b>Assessment in module component 03-98-FSQ-Tier-1-092:</b> Laboratory animal sciences Laboratory animal sciences</p> <ul style="list-style-type: none"> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>written examination (approx. 30 to 60 minutes)</li> </ul>					

03-98-FSQ-EPE-092-m01	<b>From experiment to publication and ethics in science</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>03-98-FSQ-EXP-1-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>03-98-FSQ-ETH-1-092: V (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	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. <p><b>Assessment in module component 03-98-FSQ-EXP-1-092:</b> From experiment to publication - how science works</p> <ul style="list-style-type: none"> <li>1 ECTS, Method of grading: (not) successfully completed</li> <li>preparation of educational materials and materials for demonstrations (approx. 10 pages)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance as specified at the beginning of the course.</li> </ul> <p><b>Assessment in module component 03-98-FSQ-ETH-1-092:</b> Ethics in Science</p> <ul style="list-style-type: none"> <li>1 ECTS, Method of grading: (not) successfully completed</li> <li>preparation of educational materials and materials for demonstrations (approx. 10 pages)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance as specified at the beginning of the course.</li> </ul>						
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.						
03-98-FSQ-STRA-092-m01	<b>Radiation Safety and Protection</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	2 written examinations (30 to 60 minutes each)						
	Additional Information	Additional information on module duration: Courses will usually be offered in the form of a block course with two block sessions.						
03-98-FSQ-MB1-092-m01	<b>Selected courses from biology and medicine 1</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance as specified at the beginning of the course. Prior approval by degree programme coordinator required.						

03-98-FSQ- MB2-092-m01	<b>Selected courses from biology and medicine 2</b>							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance as specified at the beginning of the course. Prior approval by degree programme coordinator required.						
03-98-FSQ- AF1-092-m01	<b>Selected courses from other faculties with a biomedical focus 1</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance as specified at the beginning of the course. Prior approval by degree programme coordinator required.						
03-98-FSQ- AF2-092-m01	<b>Selected topics from other faculties with biomedical focus 2</b>							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance as specified at the beginning of the course. Prior approval by degree programme coordinator required.						
03-98-FSQ- TUT1-092-m01	<b>Supervising Tutorials 1</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	T (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (2 to 3 pages)						
	other prerequisites	Prior approval by degree programme coordinator required.						
03-98-FSQ- TUT2-092-m01	<b>Supervising Tutorials 2</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	T (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (2 to 3 pages)						
	other prerequisites	Prior approval by degree programme coordinator required.						

03-98-FSQ-TUT3-092-m01	<b>Supervising Tutorials 3</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	T (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (2 to 3 pages)						
	other prerequisites	Prior approval by degree programme coordinator required.						
03-98-FSQ-LIT1-092-m01	<b>Journal Club 1</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						
03-98-FSQ-LIT2-092-m01	<b>Journal Club 2</b>							
	ECTS	4	Duration	2 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	2 presentations (approx. 15 minutes each)						
03-98-FSQ-KAR-092-m01	<b>Careers in Science</b>							
	ECTS	1	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	preparation of educational materials and materials for demonstrations (approx. 10 pages)						
03-98-FSQ-EXK-092-m01	<b>Excursion</b>							
	ECTS	1	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	E (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	report (1 to 2 pages)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course. Prior approval by degree programme coordinator required.						
03-98-FSQ-F2PR-092-m01	<b>Oriental Laboratory course</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (5 to 10 pages)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						
03-98-FSQ-F2PR1-092-m01	<b>Laboratory Course in biomedical research 1</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (5 to 10 pages)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						



03-98-FSQ-F2PR2-092-m01	<b>Laboratory Course in biomedical research 2</b>							
	ECTS	4	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (10 to 15 pages) and talk (approx. 10 minutes)						
03-98-FSQ-F2PR3-092-m01	<b>Laboratory Course in biomedical research 3</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (10 to 15 pages) and talk (approx. 10 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.						
03-98-FSQ-LERN-092-m01	<b>Learning strategies and preparation for exams</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 15 minutes)						
	other prerequisites	Admission prerequisite to assessment: regular attendance of courses (as specified at the beginning of the course).						
03-98-FSQ-IKK-092-m01	<b>Intercultural Competence</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (10 to 20 pages)						
	other prerequisites	Regular attendance of courses (lectures excluded) as specified at the beginning of the course is an admission prerequisite to assessment.						

03-98-FSQ- NETW-092-m01	<b>Individual Competences for Science</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>• 03-98-FSQ-NETW-1-092: S (no information on SWS (weekly contact hours) and course language available)</li> <li>• 03-98-FSQ-BEW-1-092: S (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	<p>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.</p> <p><b>Assessment in module component 03-98-FSQ-NETW-1-092:</b> Personal skills and scientific networking</p> <ul style="list-style-type: none"> <li>• 2 ECTS, Method of grading: (not) successfully completed</li> <li>• term paper (5 to 10 pages) or preparation of educational materials and materials for demonstrations (approx. 10 pages)</li> <li>• Other prerequisites: Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.</li> </ul> <p><b>Assessment in module component 03-98-FSQ-BEW-1-092:</b> Job Application in the Life Sciences</p> <ul style="list-style-type: none"> <li>• 1 ECTS, Method of grading: (not) successfully completed</li> <li>• </li> <li>• Other prerequisites: Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.</li> </ul>						
other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							