

Annex SFB

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

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2025

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)):

??-??-2025 (2025-??)

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 (80 ECTS credits)							
Theoretical Basics of Biofabrication (20 ECTS credits)							
03-FU-PM2-222-m01	Polymers II						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	V (2) + P (2)					
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus					
03-BIO-FAB-252-m01	Biofabrication						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	V (2) + Ü (1) + P (1) Module taught in: V, Ü: German and/or English					
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English					
08-PCM5-161-m01	Physical Chemistry of Supramolecular Assemblies						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (2) + Ü (1) Module taught in: German or English					
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English					
03-GEW-MAT-222-m01	Tissue cells meet materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level
	Courses	V (2) + P (2)					
	Method of assessment	a) placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: German and/or English					

Practical Biofabrication (60 ECTS credits)								
o8-BFFP1-152-m01	BioFab Research-Thesis 1							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (0)						
	Method of assessment	report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English						
o8-BFFP2-152-m01	BioFab Research-Thesis 2							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (0)						
	Method of assessment	report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English						
Compulsory Electives Theoretical Biofabrication (10 ECTS credits)								
Theoretical Biofabrication (10 ECTS credits)								
o3-SP3A1-152-m01	Carrier materials and devices for therapeutic compounds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + P (1)						
	Method of assessment	a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English						
o3-FU-Zell-152-m01	Principles of Cell Biology and Tissue Regeneration							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (4)						
	Method of assessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
o8-SCM1-161-m01	Supramolecular Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English						

o8-FU-PW1-161-mo1	Polymer Materials 1: Technology of Polymer Modification							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + P (2)						
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) Language of assessment: German and/or English Assessment offered: Once a year, winter semester P: creditable for bonus						
Thesis (30 ECTS credits)								
o8-MBF-MT-152-mo1	Master-Thesis Biofabrication							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	written thesis (approx. 60 pages) Language of assessment: German and/or English						
Additional Information	Time to complete: 6 months.							
o8-MBF-KOLL-152-mo1	Final Colloquium							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	final colloquium (approx. 60 minutes): talk (approx. 30 minutes) with subsequent discussion (approx. 30 minutes) Language of assessment: German and/or English						
Compulsory Courses Practical Biofabrication Double Degree (60 ECTS credits)								
Practical Biofabrication (60 ECTS credits)								
o8-BFFP1-152-mo1	BioFab Research-Thesis 1							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (o)						
	Method of assessment	report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English						
o8-BFFP2-152-mo1	BioFab Research-Thesis 2							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (o)						
	Method of assessment	report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English						

Compulsory Electives Theoretical Biofabrication Double Degree (30 ECTS credits)							
Theoretical Biofabrication (30 ECTS credits)							
03-FU-PM2-222-m01	Polymers II						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	V (2) + P (2)					
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus					
03-BIO-FAB-252-m01	Biofabrication						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	V (2) + Ü (1) + P (1) Module taught in: V, Ü: German and/or English					
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English					
08-PCM5-161-m01	Physical Chemistry of Supramolecular Assemblies						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (2) + Ü (1) Module taught in: German or English					
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English					
03-GEW-MAT-222-m01	Tissue cells meet materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level
	Courses	V (2) + P (2)					
	Method of assessment	a) placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: German and/or English					

03-SP3A1-152-mo1	Carrier materials and devices for therapeutic compounds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + P (1)						
	Method of assessment	a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English						
08-SCM1-161-mo1	Supramolecular Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English						
03-FU-Zell-152-mo1	Principles of Cell Biology and Tissue Regeneration							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (4)						
	Method of assessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
08-FU-PW1-161-mo1	Polymer Materials 1: Technology of Polymer Modification							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + P (2)						
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) Language of assessment: German and/or English Assessment offered: Once a year, winter semester P: creditable for bonus						
08-VPU-BF-152-mo1	Courses at the partner university (BioFab Master)							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	No courses assigned to module						
	Method of assessment	Assessments as specified by partner university abroad Language of assessment: German and/or language spoken at partner university abroad						
	other prerequisites	Please consult with course advisory service in advance.						

Thesis (30 ECTS credits)							
o8-MBF-MT-152-m01	Master-Thesis Biofabrication						
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	No courses assigned to module					
	Method of assessment	written thesis (approx. 60 pages) Language of assessment: German and/or English					
	Additional Information	Time to complete: 6 months.					
o8-MBF-KOLL-152-m01	Final Colloquium						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	No courses assigned to module					
	Method of assessment	final colloquium (approx. 60 minutes): talk (approx. 30 minutes) with subsequent discussion (approx. 30 minutes) Language of assessment: German and/or English					