Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Biofabrication as a Master's with 1 major

with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2027

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)):

??-???-2026 (2026-??)

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-PM2-272-m01	**Polymers II**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (2) Module taught in: 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: English Assessment offered: Once a year, summer semester Internship: creditable for bonus					
03-BIO-FAB-272-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: 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: English					
08-FU-Ma-Wi3-272-m01	**Materials Science 3**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (2) Module taught in: English					
	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: English					
03-GEW-MAT-272-m01	**Tissue cells meet materials**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	
	Courses		V (2) + P (2) Module taught in: English					
	Method of assessment		a) report on practical training (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: English					

Practical Biofabrication (60 ECTS credits)								
08-BFFP1-272-m01	**BioFab Research-Thesis 1**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0) Module taught in: English					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: English					
08-BFFP2-272-m01	**BioFab Research-Thesis 2**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0) Module taught in: English					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: English					
Compulsory Electives (10 ECTS credits)								
Theoretical Biofabrication (10 ECTS credits)								
03-SP3A1-272-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) Module taught in: German and/or English					
	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					
03-FU-Zell-272-m01	**Principles of Cell Biology and Tissue Regeneration**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (4) Module taught in: German and/or English					
	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-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					

08-FU-PW1-272-m01	**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) Module taught in: German and/or English					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (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 Internship: creditable for bonus					
Thesis (30 ECTS credits)								
08-MBF-MT-272-m01	**Master-Thesis Biofabrication**							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module Module taught in: English					
	Method of assessment		written thesis (approx. 60 pages) Language of assessment: English					
08-MBF-KOLL-272-m01	**Final Colloquium**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module Module taught in: English					
	Method of assessment		final colloquium (approx. 60 minutes): talk (approx. 30 minutes) with subsequent discussion (approx. 30 minutes) Language of assessment: English					
Compulsory Courses Practical Biofabrication Double Degree (60 ECTS credits)								
Practical Biofabrication (60 ECTS credits)								
08-BFFP1-272-m01	**BioFab Research-Thesis 1**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0) Module taught in: English					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: English					
08-BFFP2-272-m01	**BioFab Research-Thesis 2**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0) Module taught in: English					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: English					

Compulsory Electives Theoretical Biofabrication Double Degree (30 ECTS credits)								
Theoretical Biofabrication (30 ECTS credits)								
03-FU-PM2-272-m01	**Polymers II**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (2) Module taught in: 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: English Assessment offered: Once a year, summer semester Internship: creditable for bonus					
03-BIO-FAB-272-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: 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: 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-272-m01	**Tissue cells meet materials**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	
	Courses		V (2) + P (2) Module taught in: English					
	Method of assessment		a) report on practical training (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: English					

03-SP3A1-272-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) Module taught in: German and/or English					
	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-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					
03-FU-Zell-272-m01	**Principles of Cell Biology and Tissue Regeneration**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (4) Module taught in: German and/or English					
	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-PW1-272-m01	**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) Module taught in: German and/or English					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (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 Internship: creditable for bonus					

08-VPU-BF-272-m01	**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 Module taught in: German and/or English					
	Method of assessment		Assessments as specified by partner university abroad Language of assessment: German and/or English and/or language spoken at partner university abroad					
	other prerequisites		Please consult with course advisory service in advance.					
Thesis (30 ECTS credits)								
08-MBF-MT-272-m01	**Master-Thesis Biofabrication**							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module Module taught in: English					
	Method of assessment		written thesis (approx. 60 pages) Language of assessment: English					
08-MBF-KOLL-272-m01	**Final Colloquium**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module Module taught in: English					
	Method of assessment		final colloquium (approx. 60 minutes): talk (approx. 30 minutes) with subsequent discussion (approx. 30 minutes) Language of assessment: English					