## WPF-Katalog /Elective Courses

## Angebot zum Wintersemester 2021\_22 / Winter term 2021\_22

Modul	Studiengang SWS/ECTS Einstufung		Unterrichts- Dozent		Anmerkungen	
Thousand the second sec			laut	sprache		-
			Curriculum			
modul	study course	SWS/ECTS	categorizati	language	lecturer	note
			on			
	I		curriculum			
Elective A: Advanced Bioinformatics	MSc Bio, 1. Sem	3 SWS	Elective A	Englisch	Dr. Stüber	number of participants: not limited
Elective A. Advanced Biolinormatics	1. Sem	3 3W3	Elective A	Eligiiscii	Dr. Stuber	number of participants: not limited
	MSc Bio,				Prof. Möller	The full-day course will take place in march 2022:
Elective A: Applied space medical microbiology & biotechnology	1. Sem	3 SWS	Elective A	Englisch	(DLR)	7.3.22-11.3.22
Elective A. Applied space medical microbiology & biotechnology	MSc Bio,	3 3 4 3	LICCUIVE A	Liigiiscii	(DEN)	number of participants: not limited,
Elective A: Epidemiological Research	1. Sem	3 SWS	Elective A	Englisch	Dr. Adolph	taught in five blocks Friday/Saturday
Elective 7th Epidermological Nescarett	MSc Bio,	333	LICCUITC /	Linginsen	эт. жастра	taught in the blocks thau y saturally
Elective A: Healthcare Market and Entrepreneurship	1. Sem	3 SWS	Elective A	Englisch	Dr. Worst	number of participants: not limited,
Elective / ii Treatchedre Thanket and Entrepreheurship						number of participants: 6 students
	MSc Bio,					Introduction into basic FACS technologies and software.
Elective A: FACS	1. Sem	3 SWS	Elective A	Englisch	Prof. Illges	The full-day course will take place in february 2022
						number of participants: 6
						The students will learn the basics of NGS and will obtain
						practical skills how to prepare libraries for NGS from different
						metagenomic samples. The sample preparation will include
						amplification of DNA by qPCR and analysis of amplification data
						with the respective software; sample purification by magnetic
						beads; index PCR, resulting NGS library quantification. The NGS
						part will involve starting an NGS run on Miseq sequencer. After
						sequencing, primary (sequencing quality metrics) and
			Special			secondary (fastaQ files) sequencing results will be analysed
Special Field (SF 3SWS)	MSc Bio,		Field, 3			using in-house softwares and tools.
Next Generation Sequencing Course	3. Sem	3 SWS	ECTS	English	Dr. J. Holtel	To combine with a second SF (3 SWS)
						number of participant: not limited
						The essentials and applications of all important and advanced
						molecular technologies such as realtime and digital PCR, NGS
						and nanopore sequencing as well as microarray in the
						pandemic will be elucidated, from identification of genome
			Special			organization, development of various routine diagnostic assays
	MSc Bio,		Field, 3			to investigating infection pathways. To combine with a second
Special Field (SF 3 SWS): Molecular Diagnostics of Covid-19	3. Sem	3 SWS	ECTS	Englisch	Dr. Jie Kang	SF (3 SWS)
			Special			number of participants: not limited
S. 1   S. 1   (S. 2 SWS) 1	MSc Bio,		Field, 3			To combine with a second SF (3 SWS), taught in five blocks
Special Field (SF 3 SWS) Medical Devices Development and Regulation	3. Sem	3 SWS	ECTS	Englisch	Dr. Adolph	Friday/Saturday