B.Sc. Life Sciences Biology Academic and Examination Regulations (FPSO) 20231, valid from WiSe23/24



Curriculum Life Sciences Biology

Semester	Modules						Exams/ Credits		
1.	CH0142 General and inorganic Chemistry with Laboratory Course (GOP)	WZ0089 Introduction to Biology of Organisms (GOP)	MA9601 Advanced Mathematics 1 (GOP)	PH9034 Physics for Life Sciences (required)	LS20028 Hot Topics in Life Sciences (required)				
	K	К	К	K + LL	B (SL)		6		
	10 CP	6 CP	5 CP	7 CP	2 CP	W70042	30		
2.	WZ0128 Introduction to Genetics and Cell Biology (GOP)	LS20024 Diversity und Evolution of Plants and Fungi (required)	NAT0144 Physical Chemistry with Chemical Laboratory Course (required) K	WZ0127 Introduction to Ecology, Evolu- tion and Biodiver- sity (required)	CIT5130005 Introduction to Stochastical Mod- els and Statistics (required)	WZ0013 Organic Chemistry (required)	6		
	6 CP	5 CP	7 CP	5 CP	5 CP	3 CP	31		
3.	WZ2634 Introduction to Bioinformatics (required)	LS20029 Introduction to Microbiology with Exercises (re- quired)	WZ0159 Introduction to Structures, Tissues and Functions in Animals	WZ0024 Plant Physiology (required)	WZ0144 Introduction to Developmental Biology (required)	LS20053 Introduction to Biochemistry and Metabolomics (required)			
	K	K + LL	(required)	к	K		6		
	5 CP	6 CP	5 CP	4 CP	5 CP	(5)	30		
4.	WZ0161 Introduction to Genomics and Practical Course in Genetics (re- quired) K	WZ0166 Basic practical course Biochemistry and Bioanalytics (required) LL	WZ0214 Doing Research in Biosciences (required) K 3 CP	WZ0022 Human and Ani- mal Physiology (required)	LS20025 Applied Data Science in the Life Sciences	К	6		
	7 CP	5 CP		6 CP	5 CP	(3) 8 CP	29		
Mobility Window	Elective Modules The elective modules must be selected from the following core subjects: - Genetics und Biochemistry - Microbiology - Ecology - Plant Sciences - Zoology Animal Sciences In 3 of the core subjects at least 10 CP have to be acquired from each. The remaining CP can be selected freely.								
6.	Interdisciplinary Qualifications	LS90000 Bachelor's Thesis (required) Elective Modules W							
	5 CP	12 CP		1.02		13 CP	30		
Key	light blue = Elective mo Grey = Required modul	es and Orientation Examinat	ions (GOP)	SL = course wor LL = Laboratory W = research pa	UE = Exercises; PR = practical course; CP = Credit Points; SL = course work; K = written exam; LL = Laboratory course; B = report; W = research paper PA = project work; PRÄ = presentation				

Semes- ter	Modules						Exams/ Credits
1.	CH0142	WZ0089	MA9601	PH9034	LS20028		
	General and in-	Introduction to Bi-	Advanced Mathe-	Physics for Life	Hot Topics in Life		
	organic Chemis-	ology of Organ-	matics 1	Sciences	Sciences		
	try with Labora-	isms	(GOP)	(required)	(required)		
	tory Course (GOP)	(GOP)					
	K	К	К	K + LL	B (SL)		6
	10 CP	6 CP	5 CP	7 CP	2 CP		30
2.	WZ0128	LS20024	NAT0144	WZ0127	CIT5130005	WZ0013	
	Introduction to	Diversity und	Physical Chemis-	Introduction to	Introduction to	Organic Chemistry	
	Genetics and	Evolution of	try with Chemical	Ecology, Evolu-	Stochastical Mod-	(required)	
	Cell Biology	Plants and Fungi	Laboratory	tion and Biodiver-	els and Statistics		
	(GOP)	(required)	Course	sity	(required)		
			(required)	(required)			
	K	IZ.	14	14	14	17	
	6 CP	K 5 CP	K 7 CP	K 5 CP	K 5 CP	K 3 CP	6 31
3.	WZ2634	LS20029	WZ0159	WZ0024	WZ0144	LS20053	31
ა.	Introduction to	Introduction to	Introduction to	Plant Physiology	Introduction to	Introduction to Bio-	
	Bioinformatics	Microbiology with	Structures, Tis-	(required)	Developmental	chemistry and	
	(required)	Exercises (re-	sues and Func-	(.54454)	Biology (required)	Metabolomics	
	(quired)	tions in Animals			(required)	
			(required)			,	
	K	K + LL	K	К	К		6
	5 CP	6 CP	5 CP	4 CP	5 CP	(5)	30
4.	WZ0161	WZ0166	WZ0214	WZ0022	LS20025		
	Introduction to	Basic practical	Doing Research	Human and Ani-	Applied Data Sci-		
	Genomics and	course Biochem-	in Biosciences	mal Physiology	ence in the Life		
	Practical Course	istry and Bioana-	(required)	(required)	Sciences		
	in Genetics (re-	lytics					
	quired)	(required)	K	к	PA	К	
	К	LL	3 CP	6 CP	5 CP	(3) 8 CP	6
	7 CP	5 CP	0.01	0 01	0 01	(0) 0 0.	29
5.	WZ1082	WZ2615	WZ3096	LS30003	WZ2517	WZ2577	
	Fish Biology and	Diversity and	Scientific Compu-	Food Microbiol-	Research Project	Functional Diver-	
>	Aquaculture	Evolution of	ting for Biological	ogy	Plant Develop-	sity of Anmials	
ogu	(Core Subject	Mosses	Sciences with	(Core Subject Mi-	mental Genetics	(Core Subject Zo-	
Š	Ecology)	(Core Subject	Matlab	crobiology)	(Core Subject Ge-	ology Animal Sci-	
iity		Plant Sciences)	(Core Subject Zo-		netics and Bio-	ences)	
Mobility Window			ology Animal Sci-		chemistry)		
2		DD X	ences)	W . 11			
	K 5 CP	PRÄ 5 CP	K 3 CP	K+LL 5 CP	B 10 CP	(2)	6 30
6.	WZ2674	LS90000	3 61	LS20030	WZ2530	(2)	30
σ.		Challenges of Bachelor's Thesis		Design of Experi-	Plant Physiology		
	Biomedicine. So-			ments and Statis-	and Diagnostics		
	cial, Political and			tics for Biological	(Core Subject		
	Ethical Aspects			Data	Plant Sciences)		
	of Medical Biol-			(Core Subject			
	ogy			Ecology)			
		207		12	L.	IZ.I.I.	
	SL 5 CP	W		K	K	K+LL	6
		12 CP Module Bachelor's Thesis		5 CP UE = Exercises: I	5 CP PR = Practical course; CP =	(3) 5 CP Credit Points:	30
Key	light blue = Elective modules SL = course work; K = written exam;						
•	Grey = Required modul Green = Fundamentals	les s and Orientation Examina	tions (GOP)		LL = Laboratory course; B = report; W = research paper		
	Orange = Interdisciplin		/	· ·	PA = project work; PRÄ = presentation;		
_	LIM Och cell of Life Och conse						