

Semester	Study plan - Biophysics FSPO 2024				05.03.2024	Credit points
1	Biophysics Lecture Series 6 CP	Advanced Biophysics Seminar 3 CP	Adaptation <i>Take Introductory biophysics (6 CP)* and select adaptation modules other than your undergraduate degree: mathematical methods (5 CP), practical skills in physics (4 CP), introductory chemistry (3 CP)</i>		Complementary modules <i>Language classes, classes from Humboldt Centre for Philosophy and Humanities</i> 3 CP	30
		Biophysics Lab - A 9 CP				
2	Biophysics Elective Lectures 6 CP	Biophysics Lab - B 6 CP	Subject-specific specialization 18 CP	Research Internship 15 CP		30
3	Biophysics Research Project 15 CP					30
4	Master's Thesis 30 CP					30

*Introductory biophysics: not for students with a BA Biochemistry issued by Ulm University

Adaptation

Subject-specific specialization

Biophysics Modules

Master's Thesis

<https://www.uni-ulm.de/en/einrichtungen/humboldt-zentrum/lehre/asq/veranstaltungen/asq-lehrveranstaltungen-im-sommersemester-2022/>

Complementary modules

Study Plan Biophysics M.Sc.

updated

05.03.2024

Structure											
Areas and Modules						min CP	type	SWS	grade	sem.	exams
module no.	exam 1 no.	exam 2 no.	exam 3 no.	modules		120					
A - Compulsory Area						69	P				
80000	88888			Master's Thesis		30	P		G		
74016	14016			Biophysics Research Project		15	P	Pj	G	WiSe	1
75597	15597			Advanced Biophysics seminar		3	P	2Ü	G	WiSe	1
77119	17119	17319		Biophysics Lecture Series		6	P	4VL+1Ü	G	WiSe	2
75607	15607			Biophysics Lab - A		9	P	9Ü	G	WiSe	1
76658	15589			Biophysics Lab - B		6	P	6Ü	U	SoSe	1
B - Compulsory Elective Area						48					
B1 Adaptation						9					
72383	13011			Mathematical Methods in Material Science		5	W	3VL+1Ü	G	WiSe	1
72383	13513			Practical skills in Physics		4	W	4Ü	G	WiSe	1
71944	13018			Introductory Chemistry		3	W	2VL	G	WiSe	1
71164	12187	12277		Soft Matter Physics and Biophysics		6	W	3VL+2Ü	G	SoSe	2
76656	18024	18524	18324	Introductory Biophysics		6	W	3VL+1Ü +1Lab	G	WiSe	3
B2 Biophysics Electives						6					
74004	14004			Gene Expression		3	W	2VL	G	SoSe	1
74005	14005			Cellular Biophysics		3	W	2VL	G	SoSe	1
74003	14003			Molecular Motors		3	W	2VL	G	WiSe	1
B3 Internship						15					
75595	15595			Research Internship		15	W	Pj	G	WiSe SoSe	
B4 Specialization						18					
Biolog n=11											
78008	15431	18908	18508	Protein Biochemistry		15	W		G	WiSe	3
78007	18507	18007	18907	Advanced Microbiology		15	W		G	SoSe	3
78022	18015	18022	18505	Advanced Skills in Life Sciences		9	W		G		3
75427	15416	15427		Endocrinology		15	W		G	WiSe	2
Physic n=22											
71502	12102	12112		Biophotonik		6	W		G	SoSe	2
77108	17108	17308		Introduction to NMR		6	W		G	WiSe	2
71657	12365	12366		Econophysics: Numerical Simulations		6			G	WiSe	2
77107	17107	17307		Physics of medical imaging		6	W		G	WiSe	2
74004	14004			Gene Expression		3	W		G	SoSe	1
74005	14005			Cellular Biophysics		3	W		G	SoSe	1
74003	14003			Molecular Motors		3	W		G	WiSe	1
Data S n=7											
74212	14212			Learning Systems I: Introduction to Machine Learning		6	W		G		1
72138	13705			Bioinformatics and Systems Biology (Mol.Med)		6	W		G	WiSe	1
72818	10818	11818		Mathematische Statistik		9	W		G		2
				Scientific Integrity, Data Analysis & Management		3	W		U	SS	
74379	14379			Causal inference		4	W		G	WiSe	1
77083	17083	17583		3D Deep Learning		6	W		G		2
Chemi n=6											
70999	11238			Biomaterials		3	W		G	WiSe	1
71300	12014			Inorganic materials Synthesis/Inorganic Nanomaterials		3	W		G	SoSe	1
71308	12034			Biopolymers		3	W		G	SoSe	1
C - Complementary Area						3					
Modules from the range offered by the Humboldt Study Centre for Philosophy and Humanities and the Centre for Languages and Philology.											
type:						P = Pflicht, Compulsory; W = Wahlpflicht, Elective; E = Ergänzung, Complementary					
grade:						G = graded U = ungraded					
SWS:						Semesterwochenstunde = classroom hours					
CP:						Credit Points					
V = Vorlesung (lecture), Ü = Übung (exercise), P = Praktikum (laboratory), Pj = Projekt, S = Seminar, T = Tutorium											