Plan studiów obowiązujący od roku akademickiego 2022/2023

Załącznik Nr 1.5 do Uchwały Senatu Nr XXV – 17.7/22 z dnia 25 maja 2022 r.

KIERUNEK/MAJOR: **BIOLOGIA/ BIOLOGY**

Specjalność/Speciality: **Medical Biology**

Poziom studiów/Study level: **I stopień/ Bachelor's degree**

Profil studiów/Study profile: **ogólnoakademicki/ general academic**

Forma studiów/Study form: **stacjonarne/ full-time**

No.	Name of the module (course)	ECTS credits	Hours (total)						Year I													Year II													Year III													
				Type of classes					1							2						3							4							5							6						
			Sum	WY	CA	LB	KW	SM	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS	WY	CA	LB	KW	SM	Exam form	ECTS
Obligatory courses - A																																																		
1	Physics with elements of biophysics*	5	60	20		40			20		40			E	5																																				
2	Mathematics with elements of statistics	5	60	30			30		30			30		E	5																																				
3	Mycology*	3	45	15		30			15		30			Pg	3																																				
4	Intellectual property protection (SSH)	1	15	15					15					Pg	1																																				
5	Information technology	2	30			30					30			Pg	2																																				
6	Training**	1	8	8					8					C	1																																				
7	Microbiology*	5	60	30		30			30		30			E	5																																				
8	Human anatomy*	3,5	60	30		30										30		30			Pg	3,5																													
9	General and taxonomic botany*	6	75	30		45										30		45			E	6																													
10	Botany field classes*	1,5	30		30CT												30CT				Pg	1,5																													
11	Zoology field classes*	1,5	30		30CT												30CT				Pg	1,5																													
12	General and taxonomic zoology with principles of taxonomy*	7,5	90	30		60										30		60			E	7,5																													
13	Physical education	0	60		60												30				Pg	0		30				Pg	0																						
14	Genetics with elements of human genetics*	5	60	30		30																	30		30			E	5																						
15	Animal physiology – an extensive course*	7,5	90	30		60																	30		60			E	7,5																						
16	Environmental protection – an extensive course*	3	60	30	15CT	15																	30	15CT	15			Pg	3																						
17	Biochemistry*	7,5	90	30		60																	30		60			E	7,5																						
18	Evolutionary biology*	2	30	15			15																							15			15		Pg	2															
19	Cell biology – an extensive course*	7,5	90	30		60																								30		60			E	7,5															
20	Molecular biology with elements of molecular diagnostics*	5	60	30		30																								30		30			E	5															
21	Ecology*	6	75	30	10CT	35																								30	10CT	35			E	6															
22	Ethics	1	15	15																										15					Pg	1															
23	Human immunology with elements of virology*	5	60	30		30																															30		30			E	5								
24	Genetic engineering – a basic course*	3,5	45	15		30																															15		30			Pg	3,5								
25	Basics of individual entrepreneurship (SSH)	0,5	10				10																										10		Pg	0,5															
26	Foreign language B2	8	120				120L												30L		Pg	1,5				30L		Pg	1,5				30L		Pg	1,5				30L		E	3,5							
27	Biotechnology*	1,5	30	30																																								30					Pg	1,5
28	Plant physiology – an extensive course*	8	90	30		60																																						30		60			E	8
29	Mechanisms of evolution*	2,5	30	15			15																																					15			15		E	2,5
Sum A		**115,5**	**1578**	**568**	**140**	**680**	**190**		**118**	**30**	**130**	**30**			**22**	**90**	**90**	**135**	**30**			**21,5**	**120**	**15**	**165**	**30**			**24,5**	**120**	**5**	**130**	**55**			**23,5**	**45**		**60**	**30**			**12**	**75**		**60**	**15**			**12**
Elective courses - B																																																		
30	[a] General and inorganic chemistry with elements of analytical chemistry / [b] Chemia ogólna i nieorganiczna z el. chemii analitycznej	6	75	30		45			30		45			E	6																																				
31	[a] The elements of organic chemistry for biology students* / [b] Elementy chemii organicznej dla biologów	5	60	30		30										30		30			E	5																													
32	[a] Physical chemistry / [b] Chemia fizyczna	1,5	30	30												30					Pg	1,5																													
33	[a] The history of philosophy with elements of natural philosophy / [b] Contemporary problems in philosophy (SSH)	2,5	30	30																										30					E	2,5															

34	Academic lecture	1	15	15																																	15					Pg	1							
35	Seminar*	3	45					45																																								45	Pg	3
36	Developmental biology*	2	30	15		15			15		15			Pg	2																																			
37	Physical basis of instrumental diagnostics and physiotherapy*	1,5	30	20		10																															20		10			Pg	1,5							
38	Parasitology*	2	30	15		15										15		15			Pg	2																											
39	Radiology*	1	15	15																			15					Pg	1																					
40	Environmental toxicology*	4,5	60	30		30																	30		30			Pg	4,5																					
41	Biochemistry of nutrition*	1	15	15																																	15					Pg	1							
42	Elements of pathophysiology*	1	15	15																										15					Pg	1														
43	Basics of pharmacology*	3	45	15			30																							15			30		Pg	3															
44	Applied biology in medicine*	3	40			40																																	40			Pg	3								
45	Biological basics of herbal medicine*	6	70	30		40																															30		40			E	6								
46	Human evolution*	1,5	30	15			15																														15			15		Pg	1,5								
47	Pharmacological botany*	6	75	30	5CT	40																																						30	5CT	40			Pg	6
48	Human ecology*	1,5	30	15			15																																					15			15		Pg	1,5
49	Biomaterial engineering in medicine*	1	15	15																																								15					Pg	1
50	Biochemical methods in clinical analysis*	3,5	45	15		30																																						15		30			Pg	3,5
Sum B		**57,5**	**800**	**395**	**5**	**295**	**60**	**45**	**45**		**60**				**8**	**75**		**45**				**8,5**	**45**		**30**				**5,5**	**60**			**30**			**6,5**	**95**		**90**	**15**			**14**	**75**		**70**	**15**	**45**		**15**
Sum A+B		**173**	**2378**	**963**	**145**	**975**	**250**	**45**	**163**	**30**	**190**	**30**			**30**	**165**	**90**	**180**	**30**			**30**	**165**	**15**	**195**	**30**			**30**	**180**	**5**	**130**	**85**			**30**	**140**		**150**	**45**			**26**	**150**	**5**	**130**	**30**	**45**		**27**
Hours in a semester									**413**							**465**							**405**							**400**							**335**							**360**						
	Practical training*	**4**	100																																			100				C	**4**							
Minimal number of ECTS credits for university lecture or for courses in another major***		1***																																																
Diploma thesis + final exam		**3**																																																**3**
ECTS in a semester											**30**							**30**							**30**							**30**							**30**							**30**						
Total		**180**	**2478**	**963**	**145**	**975**	**250**	**45**	**163**	**30**	**190**	**30**			**30**	**165**	**90**	**180**	**30**			**30**	**165**	**15**	**195**	**30**			**30**	**180**	**5**	**130**	**85**			**30**	**140**		**150**	**45**			**30**	**150**	**5**	**130**	**30**	**45**		**30**

Language of instruction - English
*/ Courses related to scientific activities within the biological sciences discipline
**/ On-line trainings: Work Hygiene and Safety (4 hours), Ethics and Disciplinary Liability of Students (2 hours), Library Training (2 hours)
***/ Elective courses included in modul B
A - obligatory courses
B - elective courses
SSH - social sciences or humanities
Symbols: WY-lecture, CA-exercises, LB-lab, KW-tutorial, SM-seminar, E-exam, Pg-pass with grade, C-credits

Zatwierdzony na posiedzeniu Senatu UMCS w Lublinie w dniu: 25 maja 2022 r.