

National Research University Higher School of Economics (HSE)

Curriculum

Field of study 06.03.01 Biology

Educational Programme "Cellular and Molecular
Biotechnologies"

Faculty of Biology and Biotechnologies, HSE - Moscow

1 st, 2021/2022 academic year

APPROVED by
Vice RectorROSHCHIN Y.S.
30.04.2021

Length of Programme: 4 years

Years of Study: 2021/2022 - 2024/2025

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 43

Number of Groups: 2

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
Degree Programme				60	2 784	1 304	268	268	376	392	
Data Culture				4	152	26	10	10	3	3	
1	Python for Data Extraction and Data Mining	C	Department of Big Data and Information Retrieval	4	152	20	10	10A			Online Course
2	Independent Digital Competence Assessment. Programming. Intermediate	C	центр поддержки и мониторинга образовательных программ			3			3A		
3	Independent Digital Competence Assessment. Digital Literacy	C	центр поддержки и мониторинга образовательных программ			3				3A	
Major				45	1 710	938	160	176	292	310	
Core Professional Block (Major)				40	1 520	814	160	176	230	248	
Subject Areas				40	1 520	814	160	176	230	248	
Mathematics				8	304	80	38	42			
1	Calculus	C	Faculty of Mathematics	8	304	80	38A	42A			
Botany				9	342	186			126	60	
1	Mycology and Algology	C	Faculty of Biology and Biotechnologies	4	152	60			60A		
2	Structural and Evolutionary Botany	C	Faculty of Biology and Biotechnologies	5	190	126			66A	60A	
Zoology				9	342	172	42	46		84	
1	Invertebrate Zoology	C	Faculty of Biology and Biotechnologies	5	190	88	42	46A			
2	Vertebrate Zoology	C	Faculty of Biology and Biotechnologies	4	152	84				84A	
Physics				4	152	80			40	40	
1	Physics	C	Faculty of Physics	4	152	80			40	40A	

Chemistry				10	380	296	80	88	64	64	
1	General and Inorganic Chemistry	C	Faculty of Biology and Biotechnologies	5	190	168	80	88A			
2	Organic Chemistry for Biology and Medicine	C	Faculty of Biology and Biotechnologies	5	190	128			64	64A	
Elective Professional Block (Major)				5	190	124			62	62	
Базовая профильная часть				5	190	124			62	62	
1	Cell Biology: the Basics of Bioprocesses	C	Faculty of Biology and Biotechnologies	5	190	124			62A	62A	
English					304	146	28	32	44	42	
Optional Courses					304	144	28	32	44	40	
1	English	O		8	304	144	28	32A	44	40	Foreign language, Credits only to the cumulative rating
Examinations						2				2	
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
General Courses				5	390	192	70	50	36	36	
Optional General Courses				4	152	30	16	14			
1	Economics	C	Department of Theoretical Economics	4	152	30	16	14A			Online Course
Core General Courses				1	238	162	54	36	36	36	
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1	38	18	18A				Online Course
2	Physical Training	C	Department of Physical Training		200	144	36	36	36	36A	
Internship				6	228	2			1	1	
Professional Internship				6	228	2			1	1	
1	Educational Internship	C		6	228	2			1	1A	

Academic Supervisor

MAKAROVA Y.A.

23.04.2021

Dean

23.04.2021

Head of Degree Programmes
Development Office

MAMONOVA M.A.

29.04.2021

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O