

Batumi Shota Rustaveli State University
Faculty of Natural Sciences and Health Care

Educational Program: Biology

Conferred academic degree: Master of Biology in Genetics / Biodiversity / Hydrobiology

CURRICULUM

№	Components	Course Code	Prerequisite Code	Number of Credits	Number of Hours	Including								I semester	II semester	III semester	IV semester
						Lecture	Group work	Practical	Laboratorial	Internship	Midterm Exam	Final Exam	Individual Work				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Major Compulsory Courses																	
1	Cell Biology	M1140801001		6	150	15			27		1	2	105	6			
2	Gene Molecular Biology	M1140801002		7	175	15			27		1	2	130	7			
3	Methods of Experimental Research I	M1140801003		4	100	10	8		9		1	2	70	4			
4	Methods of Experimental Research II	M1140801 004		4	100		27				1	2	70	4			
5	Biometry with the Basics of Statistic Analysis	M1140801 005		4	100	5	22				1	2	70	4			
6	Biodiversity and Conservation Strategies	M1140801006		5	125	10	17				1	2	95	5			
Specialization – Biodiversity																	
Compulsory Courses																	
1	Regional Floristic Studies with Basics of Phytogeography	M1140801007	M1140801 004	5	125	10	17				1	2	95		5		
2	Animal Kingdom of Georgia, with Basics of Zoogeography	M1140801046		5	125	15	12				1	2	95		5		
3	Vegetable Kingdom of Georgia	M1140801008		5	125	10	17				1	2	95		5		

4	Colchis Relict Forests	M1140801009		5	125	10	17				1	2	95		5		
5	Southern Colchis Endemic and Relict Flora	M1140801010		5	125	10			17		1	2	95		5		
6	Field Practice in Biodiversity I	M1140801011	M1140801 004	5	125			120					5		5		
7	Recreational Resources in Ajara	M1140801 013		5	125	10	17				1	2	95			5	
8	Biocology of Advent (Invasive) Plants	M1140801014	M1140801 007	5	125	10	17				1	2	95			5	
9	Human Evolution and Anthropological Structure	M1140801015		5	125	14	13				1	2	95			5	
10	Field Practice in Biodiversity II	M1140801016	M1140801 010	5	125			120					5			5	
	Master's Thesis	M1140801056		30	750								730				30
Elective Courses 10 credits																	
1	Plant Ecological Morphology	M1140801017		5	125	10	17				1	2	95			5	
2	General Mycology with Plant Protection	M1140801018		5	125	10			17		1	2	95			5	
3	Rare Animals in Georgia and Their Protection	M1140801019		5	125	14	13				1	2	95			5	
4	Biodiversity and Protection of Humid Ecosystems	M1140801020		5	125	10	17				1	2	95			5	
5	Medicinal Plants Biodiversity	M140801021		5	125	10	17				1	2	95			5	
6	English B2/C1	M1140102069 M1140102110		10	250		57				1	2	190			10	
Specialization – Genetics																	
Compulsory Courses																	
1	Molecular and Cell Biotechnology	M1140801 022	M1140801003	5	125	5	7		15		1	2	95		5		
2	Ontogenetics	M1140801023	M1140801001	4	100	10	17				1	2	70		4		
3	Biology of Human Pathologies	M1140801 024	M1140801002	4	100	15	12				1	2	70		4		
4	Bioregulation of Heredity and Changeability Balance	M1140801025		4	100	15	12				1	2	70		4		
5	Transplantation and Transfusion Genetics	M1140801026	M1140801002	5	125	10	17				1	2	95		5		
6	Gerontology	M1140801028		4	100	12	15				1	2	70		4		
7	Mutagenesis	M1140801029	M1140801 025	5	125	10	17				1	2	95			5	
8	Genetics of Microorganisms	M1140801030	M1140801 022	4	100	13	14				1	2	70			4	
9	Genetic Research Methods of Population	M1140801027		5	125	10	14		3		1	2	95			5	
10	Genetic Prognosis and Consultation	M1140801050	M1140801024	5	125	15	12				1	2	95			5	
11	Field Practice in Genetics	M1140801051	M1140801003	5	125			120					5		5		
12	Master's Thesis	M1140801057		30	750								730				30
Elective Courses 10 credits																	
1	Immunity Evolution	M1140801052		5	125	12	10		5		1	2	95			5	
2	Basics of Genomics	M1140801053		5	125	15	12				1	2	95			5	
3	Expertise of Toxic and	M1140801054		5	125		10		17		1	2	95			5	

	Genetically Modified Products																
4	Human Evolution and Anthropological Structure	M1140801015		5	125	14	13				1	2	95			5	
5	English B.2/C1	M1140102069 M1140102110		10	250		57				1	2	190			10	
Specialization – Hydrobiology																	
Compulsory Courses																	
1	Animal Biodiversity and Protection	M1140801031		5	125	15	12				1	2	95			5	
2	Black Sea Ichthyofauna	M1140801032	M1140801006	5	125	15	12				1	2	95			5	
3	Hydrobiont Research Methods	M1140801033		5	125	6			21		1	2	95			5	
4	Methods of Determination of Hydrobionts Productivity	M1140801041		5	125	10			17		1	2	95			5	
5	Zootoxicology	M1140801042		5	125	15	12				1	2	95			5	
6	Applied Hydrobiology	M1140801043		5	125	15	12				1	2	95			5	
7	Ichthyoparasitology	M1140801 044		5	125	13			14		1	2	95			5	
8	Marine Culture	M1140801045	M1140801 031	5	125	10	17				1	2	95			5	
9	Field Practice in Hydrobiont Biodiversity	M1140801059	M1140801 004 M1140801 006	10	250			24 0					10			10	
10	Master's Thesis	M1140801058		30	750								730				30
Elective Courses 10 credits																	
1	Water Ecosystems with Research Methods	M1140801 047		5	125	10			17		1	2	95			5	
2	Hydrobiont Cultivation Technology	M1140801048		5	125	15	12				1	2	95			5	
3	Black Sea Mammals	M1140801049		5	125	10	17				1	2	95			5	
4	English B.2/C1	M1140102069		10	250		57				1	2	190			10	

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