

**Schedule of the labs
(1st semester)**

№П/ П	Topics	Working hours
1	The Science of Biology. Cell is a unit of life. Cell Biology.	2
2	Information system of the cell.	2
3	Organization and regulation of gene expression of prokaryotes and eukaryotes	2
4	Kingdom Protozoa. Phylum Sarcomastigophora. Class Flagellata (Zoomastigota). Class Sarcodina	2
5	Kingdom Protozoa. Phylum Apycomplexa and Phylum Ciliata.	2
6	Kingdom Protozoa. Ecological aspects of parasitism.	2
7	Phylum Plathelminthes. Class Trematodes	2
8	Phylum Plathelminthes. Class Trematodes	2
9	Phylum Plathelminthes. Class Cestoidea (1 st lesson)	2
10	Phylum Plathelminthes. Class Cestoidea (2 nd lesson)	2
11	Phylum Nemathelminthes. Class Nematoda (1 st lesson)	2
12	Phylum Nemathelminthes. Class Nematoda (2 nd lesson)	2
13	Phylum Arthropoda. Class Arachnida	2
14	Phylum Arthropoda. Subphylum Tracheata. Class Insecta	2

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Medical Biology and

Genetics, M.D., PhD



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**Schedule of the labs
(2nd semester)**

1	Comparative anatomy of Vertebrates' organ systems: integument, skeleton, digestive and respiratory systems	2
2	Comparative anatomy of Vertebrates' organ systems: circulatory, nervous, excretory, and reproductive systems	2
3	Morpho - physiological and functional cell structure	2
4	The cell physiology: the life cycle, mitosis, and meiosis	2
5	Reproduction, particularities of human reproduction	2
6	Ontogenesis. The characteristics of embryological development	2
7	The science of genetics. Mendel's laws of heredity Gene interactions. Multiple alleles	2
8	Linkage genes. Sex-linked characteristics. Sex determination	2
9	Genotypic variation. Mutations Phenotypic variation	2
10	Human genetics: pedigree, twins study, population study	2
11	Human genetics: cytogenetic, immunological, biochemical, and molecular-genetic study. Prenatal diagnostics of hereditary diseases	2
12	Hereditary diseases	2
13	Poison animals and plants	2
	Total working hours	54

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