



**CATALOG OF ELECTIVE DISCIPLINES**

For students in the direction of preparation 7M091 Veterinary  
Brief description of the elective disciplines of the educational program

EPG	EP	Form of education	The name of discipline	Code of subject	Discipline cycle	Component	Number of credits	Level of training	Cafedra	Course	Pre-requisites	Post-requisitions	Brief content of the discipline	Key learning outcomes	Name of the alternative discipline
M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Patenting and intellectual property protection	PZIS 5208	BS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	Management in veterinary medicine	Theory and Methods experiment	Summarizes knowledge in the field of intellectual property and copyright protection, conducting research and information research and drafting applications for inventions. Forms the skills of interpretation of the objects of invention, creative thinking.	Generalize knowledge in the field of veterinary medicine, formulate concepts of legal and anti-corruption culture, determine the importance of principles and culture of academic integrity for the formation of a competent personality with high thinking potential, as well as extract modern ideas in the information structure in the field of professional activity, distinguish between the methods of writing academic texts, abstracting, compiling and processing research results. Demonstrate knowledge in the field of intellectual property and copyright protection, conduct patent information research and prepare national and international	Protection of intellectual property in research
M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Protection of intellectual property in research	ZISNI 6509	BS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary sanitation	1	Management in veterinary medicine	Theory and Methods experiment	Summarizes knowledge in the field of intellectual property and copyright protection, conducting research and information research and drafting applications for inventions. Forms the skills of interpretation of the objects of invention, creative thinking.	Generalize knowledge in the field of veterinary medicine, formulate concepts of legal and anti-corruption culture, determine the importance of principles and culture of academic integrity for the formation of a competent personality with high thinking potential, as well as extract modern ideas in the information structure in the field of professional activity, distinguish between the methods of writing academic texts, abstracting, compiling and processing research results. Demonstrate knowledge in the field of intellectual property and copyright protection, conduct patent information research and prepare national and international	Patenting and intellectual property protection

M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Prevention and Control of Zoonotic Diseases	PMBZB 5308	AS	Elective subjects	4.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	1	Veterinary epidemiology	Disease prevention and animal welfare, Protozooses of animals, birds and fish, The invasive disease of ruminants animals	Studies the epidemiological situation of zoonothropontic diseases in the world and the Republic of Kazakhstan. Considers issues of preventive measures and protection of the population in the event of zoonothropozoonosis.	Formulate the main patterns of systematization of animal species, study the main methods of diagnosing diseases of infectious and invasive etiology, and also present the methodology of therapeutic and preventive measures for these pathologies. To study the issues of legislative regulation and nomenclature of document management in veterinary medicine, to present the economic justification of veterinary measures.	Epizootological monitoring and prediction of infectious animal diseases
M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Epizootological monitoring and prediction of infectious animal diseases	AS	AS	Elective subjects	4.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	1	Veterinary epidemiology	Disease prevention and animal welfare, Protozooses of animals, birds and fish, The invasive disease of ruminants animals	Studies the rules of epizootological monitoring and forecasting of the occurrence of infectious diseases of animals. They form the skills of assessing the risk of the occurrence and spread of infectious diseases of animals.	Formulate the main patterns of systematization of animal species, study the main methods of diagnosing diseases of infectious and invasive etiology, and also present the methodology of therapeutic and preventive measures for these pathologies. To study the issues of legislative regulation and nomenclature of document management in veterinary medicine, to present the economic justification of veterinary measures.	Prevention and Control of Zoonotic Diseases
M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Diagnosis of non-infectious diseases of young animals	DNBM 5207	BS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	1	Internal diseases of animals with clinical diagnosis	Fundamentals of Herd Health Management, Research Methods in veterinary obstetrics	Forms the theoretical and practical foundations of etopathogenesis and therapeutic and preventive measures for pathologies of non-infectious etiology of young animals, possess the skills of laboratory diagnostics and interpret the results obtained.	Formulate the theoretical and practical foundations of etopathogenesis and therapeutic and preventive measures for pathologies of non-infectious etiology of young animals, possess the skills of laboratory diagnostics and interpret the results obtained.	Practical therapy

M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Practical therapy		BS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	1	Internal diseases of animals with clinical diagnosis	Fundamentals of Herd Health Management, Research Methods in veterinary obstetrics	Studies various methods of therapeutic techniques: voluntary and forced methods of administration of drugs, as well as the use of modern instrumental methods for diagnosing internal diseases of animals.	Formulate the theoretical and practical foundations of etiopathogenesis and therapeutic and preventive measures for pathologies of non-infectious etiology of young animals, possess the skills of laboratory diagnostics and interpret the results obtained.	Diagnosis of non-infectious diseases of young animals
M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Disease prevention and animal welfare	PBBZh 5209	BS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	3	Veterinary epidemiology	Protozooses of animals, birds and fish, The invasive disease of ruminants animals	Studies the issues of animal health preservation, the influence of various factors on animal welfare. Demonstrates the main aspects of preventive work in livestock farms.	Formulate the main philosophical problems of the development of modern science and evaluate its relationship with the history of the development of science, integrate knowledge of higher school pedagogy, management psychology into research activities using foreign languages (professional). To interpret the role of microorganisms in the occurrence of pathological processes in animals, to explain the basics of immunology and serology, as well as the importance of the main links of the epizootic process.	Fundamentals of Herd Health Management
M138 - «Veterinary science»	7M09101 - «Diagnosis, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Fundamentals of Herd Management		BS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	1	3	Veterinary epidemiology	Protozooses of animals, birds and fish, The invasive disease of ruminants animals	Forms knowledge in the field of herd health management, ensuring the preservation of biosafety and hygiene. Determines the skills of organizing feeding, maintenance and carrying out veterinary and sanitary measures on the farm.	Formulate the main philosophical problems of the development of modern science and evaluate its relationship with the history of the development of science, integrate knowledge of higher school pedagogy, management psychology into research activities using foreign languages (professional). To interpret the role of microorganisms in the occurrence of pathological processes in animals, to explain the basics of immunology and serology, as well as the importance of the main links of the epizootic process	Disease prevention and animal welfare

M138 - «Veterinary science»	7M09101 - «Diagnosi cs, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	The invasive disease of ruminants animals	IBZhZh 6309	AS	Elective 5.0 subjects	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	2	1	Parasitology and invasive animal diseases	Research practice	Defines modern methods of diagnosis, prevention and treatment of helminthiasis, arachnoentomosis, and protozoosis of ruminants. They form the skills of interpreting the results of serological and molecular biological methods used in the diagnosis of invasive diseases.	Formulate the main patterns of systematization of animal species, study the main methods of diagnosing diseases of infectious and invasive etiology, and also present the methodology of therapeutic and preventive measures for these pathologies. To study the issues of legislative regulation and nomenclature of document management in veterinary medicine, to present the economic justification of veterinary measures.	Protozooses of animals, birds and fish
M138 - «Veterinary science»	7M09101 - «Diagnosi cs, treatment and prophylaxis of animals' diseases»	Full-time (MS 2 years) trimester	Protozooses of animals, birds and fish		AS	Elective 5.0 subjects	Master's program by specialization (Scientific & pedagogical direction)	Veterinary medicine	2	1	Parasitology and invasive animal diseases	Research practice	Studies modern methods of diagnosis, treatment and prevention of protozoa of animals, birds and fish. Studies serological and molecular biological methods used in the diagnosis of protozoa of animals, birds and fish.	Formulate the main patterns of systematization of animal species, study the main methods of diagnosing diseases of infectious and invasive etiology, and also present the methodology of therapeutic and preventive measures for these pathologies. To study the issues of legislative regulation and nomenclature of document management in veterinary medicine, to present the economic justification of veterinary measures.	The invasive disease of ruminants animals

The catalog of elective disciplines was approved by the faculty council Minutes IA, dated 27.08.2022

Head of the Department of Veterinary Medicine

Mukhambetkaliyev Y. Y.