



CATALOG OF ELECTIVE DISCIPLINES

For students in the direction of preparation 7M082. Animal production

Brief description of the elective disciplines of the educational program 7M08201 - "Feed and feeding of farm animals"

EPG	EP	Form of education	The name of discipline	Code of subject	Discipline cycle	Component	Number of credits	Level of training	Department	Course	Academic period	Pre-requisites	Post-requisites	Brief content of the discipline	Key learning outcomes	Name of the alternative discipline
M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	English for Academic Purposes	AYa DAC 5206	BS	Elective subjects	5.0	(Scientific & pedagogical direction)	Department of Foreign Languages	1	2	Foreign language (professional)	Master student's research work, including implementation of master's thesis, Teaching practice	Comprehensive theoretical and linguistic, practical and informational-analytical training in order to perform functions related to the use of a foreign language in professional and scientific activities: possession of public speaking skills, conducting discussions, the ability to work with information from various sources, edit texts of professionally significant content in a foreign language.	Present the basics of scientific research methodology. Apply the means of collecting, processing experimental data and analyzing the results. Make a review of literary information, formulate the results of business written and oral speech in the state and foreign languages	English for Academic purposes
M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	Foreign language for academic purposes	IYaD AC 5206	BS	Elective subjects	5.0	(Scientific & pedagogical direction)	Department of Foreign Languages	1	2	Foreign language (professional)	Master student's research work, including implementation of master's thesis, Teaching practice	Use of a foreign language in professional and scientific activities; possession of public speaking skill; conducting discussion, the ability to work with information from various sources, edit texts of professionally content in a foreign language.	Present the basics of scientific research methodology. Apply the means of collecting, processing experimental data and analyzing the results. Make a review of literary information, formulate the results of business written and oral speech in the state and foreign languages	English for Academic Purposes

M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	Scientific basis for the rational feeding of farm animals	NOR KSh 5307	AS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Technology of production of products of stock-raising	1	2	Feeding of agricultural animals	Feeds and feed additives, Master student's research work, including implementation of master's thesis, Research methods in agricultural animals feeding, Research practice	The main essence of the study of the discipline is familiarization with scientifically based methods of drawing up feeding plans. The discipline studies the rational selection of components in the preparation of feed mixtures (fully mixed rations) based on scientific research and development of domestic and foreign scientists, modern scientific foundations for the rational feeding of agricultural animals and poultry in various climatic conditions of Kazakhstan, the scientific basis for the use of materials for the preparation and storage of feed and feeding process. Studying this subject allows monitoring the quality of the rational feeding process.	To demonstrate developing knowledge and understanding the role of energy, nutrient, biologically active and mineral substances in the body of animals and poultry, the nutritional value of feed used by animal husbandry; the physiological and productive need of all species of sex-age animals and birds in nutrient, biologically active and mineral substances; technical regulations and quality control methods on the environmental safety of feed and methods of feeding animals and birds. To demonstrate developing knowledge and understanding the state of the feed base and the levels of feeding in the livestock industry of the Republic of Kazakhstan, on modern technologies of feeding all gender and age groups of animals and birds. Know the need of animals and birds for nutrients, depending on age, physiological state and direction of productivity; modern technologies of feeding animals and birds; be able to make up the rations of feed by rational selection of fodder low at cost and not inferior in quality. To use the training skills necessary for independent continuation the modern concepts on the organization of abundant and full-fledged feed base, progressive technologies of harvesting, storage and preparation of feed for feeding, a scientifically based system of standardized feeding of farm animals, to use the data in their professional activities.	Rational feeding of agricultural animals
M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	Rational feeding of agricultural animals	RKSZ AS h 5307	AS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Technology of production of products of stock-raising	1	2	Feeding of agricultural animals	Feeds and feed additives, Master student's research work, including implementation of master's thesis, Research methods in agricultural animals feeding, Research practice	The discipline provides knowledge about the state of the forage base and feeding technology in the livestock sectors of the republic. Considers the basic principles of the organization of rational feeding of farm animals and poultry. Master students master modern and efficient technologies for feeding agricultural animals and poultry. The discipline studies the definition of the nutritional value of feed and feed additives in order to include them in the composition of balanced diets for feeding agricultural animals. The issues of optimizing the diets of feeding of agricultural animals in terms of usefulness and cost.	To demonstrate developing knowledge and understanding the role of energy, nutrient, biologically active and mineral substances in the body of animals and poultry, the nutritional value of feed used by animal husbandry; the physiological and productive need of all species of sex-age animals and birds in nutrient, biologically active and mineral substances; technical regulations and quality control methods on the environmental safety of feed and methods of feeding animals and birds. To demonstrate developing knowledge and understanding the state of the feed base and the levels of feeding in the livestock industry of the Republic of Kazakhstan, on modern technologies of feeding all gender and age groups of animals and birds. Know the need of animals and birds for nutrients, depending on age, physiological state and direction of productivity; modern technologies of feeding animals and birds; be able to make up the rations of feed by rational selection of fodder low at cost and not inferior in quality. To use the training skills necessary for independent continuation the modern concepts on the organization of abundant and full-fledged feed base, progressive technologies of harvesting, storage and preparation of feed for feeding, a scientifically based system of standardized feeding of farm animals, to use the data in their professional activities.	Scientific basis for the rational feeding of farm animals

M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	Methodology of scientific research and analysis of zootechnical experiments	MNI AZE 5207	BS	5.0	Master's program by specialization (Scientific & pedagogical direction)	Technology of production of products of stock-raising	1	2	Methods of scientific researches	Information technologies in livestock. Master student's research work, including implementation of master's thesis, Research methods in agricultural animals feeding, Research practice	The content of the discipline covers the issues of setting up and conducting scientific research, registration of technical documentation, scientific activity, public speaking. Undergraduates acquire the skill of writing scientific letters, participating in scientific events and organizing them, conducting patent searches, protecting intellectual property rights, formulating goals, tasks related to the implementation of professional functions. They master the adoption of specific organizational decisions to achieve the goals and objectives, interaction with various groups and institutions of power, society, and pedagogical activities. The discipline studies the use of foreign languages to the extent necessary for the implementation of professional, research, teaching activities, instills skills in working with laws and other regulations in the field of conducting a scientific experiment, field	To communicate clearly and unambiguously information, ideas, problems and solutions about current trends in the development of scientific knowledge; about current methodological and philosophical problems of science, the methodology of scientific knowledge; principles and structure of the organization of scientific activity. To collect and interpret information to form judgments in the field of research methodology and implementation of research projects and research in the professional field of animal husbandry; use the knowledge gained for the original development and application of ideas in the context of scientific research, have the ability to apply modern methods and techniques of feeding animals and the effective use of feed for animals and poultry.	Fundamentals of scientific research
M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	Mathematical modeling in animal husbandry	MMZ h 6205	BS	5.0	Master's program by specialization (Scientific & pedagogical direction)	Technology of production of products of stock-raising	2	1	Higher Mathematics*, Production technology of animal husbandry products	Master student's research work, including implementation of master's thesis, Research practice, Teaching practice	The discipline reveals the concept of mathematical modeling and models, the process of the purpose of modeling in animal husbandry. Master students study abstract and material, speculative and verbal, informational and mathematical models. The discipline teaches undergraduates to establish the form of a connection between two features and the selection of a mathematical equation that expresses this connection. Functional, stochastic dependencies are mastered.	To collect and interpret information to form judgments in the field of research methodology and implementation of research projects and research in the professional field of animal husbandry; use the knowledge gained for the original development and application of ideas in the context of scientific research; have the ability to apply modern methods and techniques of feeding animals and the effective use of feed for animals and poultry.	Planning and modeling of the breeding process in animal husbandry
M132 - «Animal breeding»	7M08201 - «Feed and feeding of farm animals»	Full-time (MS 2 years) semester	Planning and modeling of the breeding process in animal husbandry	PMS PZh 6205	BS	5.0	Master's program by specialization (Scientific & pedagogical direction)	Technology of production of products of stock-raising	2	1	Higher Mathematics*, Production technology of animal husbandry products	Master student's research work, including implementation of master's thesis, Research practice, Teaching practice	Knowledge of the above course will allow undergraduates, when conducting research work on animal breeding, to widely use many modern methods for analyzing the hereditary inclinations of an animal, to know the principles of operation of basic laboratory instruments and the rules for their operation, to correctly interpret the results of research and are necessary when preparing and writing a dissertation.	To collect and interpret information to form judgments in the field of research methodology and implementation of research projects and research in the professional field of animal husbandry; use the knowledge gained for the original development and application of ideas in the context of scientific research; have the ability to apply modern methods and techniques of feeding animals and the effective use of feed for animals and poultry.	Mathematical modeling in animal husbandry

The catalog of elective disciplines is approved by the "Veterinary and animal husbandry technology" Faculty Council, minutes No. 117 of 28.08, 2023

Acting Head of the department "Technology of production and processing of livestock products"  D. Ibrayev