



CATALOG OF ELECTIVE DISCIPLINES

For students in the direction of Preparation 81.08.01 Animal Production

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	Academic period	Pre-requisites	Post-requisites	Brief content of the discipline	Key learning outcomes	Name of the alternative discipline
D132 - «Animal breeding»	8D08201 - «Animal science»	Full-time (PhD 3 years) trimester	Detailed feeding of high-producing animals	DKV Zh 7301	AS	Elective subjects	5.0	(scientific & pedagogical direction)	Technology of production of products of stock-raising	1	1	Feeding of agricultural animals, Technological innovation of livestock products	PhD student's research work, incl. doctoral thesis, Research practice, Teaching practice	Principles of drawing up detailed and balanced diets. Features of feeding highly productive and breeding farm animals. Detailed feeding of lactating cows, dry cows and breeding bulls-producers of meat and dairy products. Scientific justification of directed feeding of young animals. Control of the usefulness of feeding highly productive animals. The scientific foundations of feed production and the necessary conditions for obtaining high-quality feed. Features and scientific foundations of feeding sheep, horses and poultry by periods of their development and productivity.	To demonstrate systemic understanding the organization and control of the full feeding of animals; to demonstrate the ability to implement and adapt as an organizer of strengthening the feed base of livestock and providing a highly productive livestock with all the necessary energy, protein, mineral and vitamin feed and feed additives, ensuring good health and high productivity. To analyze critically, evaluate and synthesize detailed norms for the energy and nutrient needs of highly productive animals and to apply their knowledge and achievements in the preparation of scientifically based comprehensively balanced diets for farm animals from available feeds.	Energy-protein feeding of productive animals
D132 - «Animal breeding»	8D08201 - «Animal science»	Full-time (PhD 3 years) trimester	Energy-protein feeding of productive animals	EPKP Zh 7311	AS	Elective subjects	5.0	(scientific & pedagogical direction)	Technology of production of products of stock-raising	1	1	Feeding of agricultural animals, Technological innovation of livestock products	PhD student's research work, incl. doctoral thesis, Research practice, Teaching practice	Energy-protein usefulness of animal feeding diets and control over it. Balanced diets for energy (heat production) and structural compounds for the biosynthesis of products (protein). Energy-protein ratio, which allows to reduce feed consumption for production.	To demonstrate systemic understanding the organization and control of the full feeding of animals; to demonstrate the ability to implement and adapt as an organizer of strengthening the feed base of livestock and providing a highly productive livestock with all the necessary energy, protein, mineral and vitamin feed and feed additives, ensuring good health and high productivity. To analyze critically, evaluate and synthesize detailed norms for the energy and nutrient needs of highly productive animals and to apply their knowledge and achievements in the preparation of scientifically based comprehensively balanced diets for farm animals from available feeds.	Detailed feeding of high-producing animals
D132 - «Animal breeding»	8D08201 - «Animal science»	Full-time (PhD 3 years) trimester	Technology and problems of livestock production	TPTT Zh 7303	AS	Elective subjects	5.0	(scientific & pedagogical direction)	Technology of production of products of stock-raising	1	2	Information technologies in livestock, Technological innovation of livestock products	PhD student's research work, incl. doctoral thesis, Research practice, Teaching practice	Putting forward the problems of scientific research in the livestock industry. Foreign experience in solving the problems of livestock production. The main problems in animal husbandry in Kazakhstan. Use and results of application of advanced technologies in Kazakhstan. Ways to solve the problems of increasing the productivity of animals on the basis of improving, improving the conditions of feeding and keeping. Ways to solve the problems of using valuable genetic resources on the basis of our own breeding base. Technological methods for increasing productivity, scientific approaches to improving the efficiency of production and sales of livestock products.	To analyze, to evaluate the main problems of development in livestock production in Kazakhstan, to facilitate advancement in an academic and professional context the latest achievements in the development of intensive technology for the production of livestock products in order to increase production efficiency, improve living conditions, and use valuable genetic resources based on our own breeding base.	Technology and problems of precision animal husbandry
D132 - «Animal breeding»	8D08201 - «Animal science»	Full-time (PhD 3 years) trimester	Technology and problems of precision animal husbandry	TPTZh 7312	AS	Elective subjects	5.0	(pedagogical direction)	Technology of production of products of stock-raising	1	2	Information technologies in livestock, Technological innovation of livestock products	PhD student's research work, incl. doctoral thesis, Research practice, Teaching practice	Application of advanced technologies in order to optimize the contribution of each animal to the production process, environmental factors, climatic conditions, feed supply and additives for precision animal husbandry. Discipline gives an understanding of the processes occurring in the room and provides the ability to respond to them if necessary. Course studies technologies and problems of precision animal husbandry, optimal management in all stages of production, system-forming elements of management in the field of animal husbandry.	To analyze, to evaluate the main problems of development in livestock production in Kazakhstan, to facilitate advancement in an academic and professional context the latest achievements in the development of intensive technology for the production of livestock products in order to increase production efficiency, improve living conditions, and use valuable genetic resources based on our own breeding base.	Technology and problems of livestock production

