

**MINISTRY OF AGRICULTURE OF THE REPUBLIC OF KAZAKHSTAN
"NJSC "S. SEIFULLIN KAZAKH AGROTECHNICAL UNIVERSITY"**

Approve
NJSC "Saken Seifullin Kazakh
Deputy Chairman of the Management
Board Academic Activity-Rector
_____ A.M Abdyrov.
« _____ » _____ 2021.

CATALOG OF ELECTIVE COURSES

For students in groups of educational programs

Hunting and Fisheries Management

Nur-Sultan, 2021

**MINISTRY OF AGRICULTURE OF THE REPUBLIC OF KAZAKHSTAN
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Brief description of elective disciplines of the educational program

Econometrics for business solutions

1	Name of course	Animal physiology
2	Code of course	FZh 2227
3	Cycle of course	BD
4	Amount of credits	5
5	Level of preparation	Undergraduate studies
6	Department	Hunting and Fisheries Management
7	Year	2
8	Prerequisites	Animal morphology, zoology
9	Postrequisites	biology of animals and birds, ethology of animals and birds, animal husbandry, wild breeding
10	Course summary	The discipline of animal and plant physiology studies modern research areas of plant and animal physiology, the basic system principles of the organization of physiological functions of plants and animals, the regulation of their homeostasis, physiological motor and vegetative functions, the stages of the formation of motor unconditional and conditional acts and mechanisms for maintaining homeostasis, neurohumoral mechanisms of stress and adaptation, the role of the gender factor in the resistance to diseases of civilization.
11	Learning outcomes	o know: the essence of physiological processes in the animal body; mechanisms that ensure the interaction of individual parts of the body and the body as a whole with the external environment; Understand the principles of the biochemical organization of animals, the laws of biochemical processes occurring in the body. Know the chemical composition of a living organism and the biochemical processes. Be able to: determine the physiological state of productive animals by physiological constants of homeostasis; conduct physiological and biochemical experiments; work with equipment for physiological research; determine the most important physiological and biochemical parameters of animals; Possess: work with a microscope; prepare and conduct physiological and biochemical experiments to study the processes and functions of the animal body under the influence of various environmental factors; select the necessary research methods to study the metabolic processes in the animal body; process the experimental data obtained and evaluate them, using the literature information;

1	Name of course	Biology of animals and birds
2	Code of course	BZP 2203
3	Cycle of course	BD
4	Amount of credits	5
5	Level of preparation	Undergraduate studies
6	Department	Hunting and Fisheries Management
7	Year	2
8	Prerequisites	zoology, animal morphology, animal physiology, biochemistry
9	Postrequisites	болезни зверей и птиц, зоогеография, биотехния и охрана природных ресурсов, звероводство, дичеразведение
10	Course summary	The discipline studies the features of animals and birds inhabiting different zones, with their morphological structure;
11	Learning outcomes	The student will know the systematic, morphological and physiological characteristics of animals and birds, and the basic principles of natural classification, the general characteristics of classes, their similarities and distinctive features, the main ecological groups in connection with their adaptations to the environment.

