

Approved
Kazakh Agrotechnical Research University named after S.Seifullin
Dean of the Faculty of Forestry, Wildlife and Environment

Boranbay Zh.T.

«18» 12 2021г.

CATALOG OF ELECTIVE DISCIPLINES

For students in the field of study B079 - «Forestry»
Brief description of elective disciplines of the educational program 6B08301 - «Hunting and Fur farming»

GOP	OP	Form of study	Name of discipline	Discipline code	Cycle of discipline	Component	Amount of credits	Level of training	Department	Well	Academic period	Prerequisites	Post-requisites	Summary of the discipline	Learning outcomes	Name of alternative discipline
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Fundamentals of business	OPD 3121	GER	CS	5	Bachelor	Management and Marketing	3	6	Cultural studies and psychology	Fur farming	The subject of the Fundamentals of business. The concept of entrepreneurship under the legislation of the Republic of Kazakhstan. The right of ownership in the Republic of Kazakhstan. Legal status of legal entities. Proprietary rights. Private enterprise. Individual entrepreneurship. Licensing of business activities. Legal regime of foreign investments. Legal liability for economic offences. Business Contracts.	ON 1. Have the basics of economic knowledge, have scientific knowledge about management. ON 10. Methods of using mechanical means, bases of building economic and mathematical models	Basic of economics, Basics of anti-corruption culture
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Basics of anti-corruption culture	OAK 3120	GER	CS	5	Bachelor	Economics	3	6	Political science and sociology	Breeding of Red deer	Basics of anti-corruption culture. The course forms a system of knowledge on anti-corruption, and on this basis the development of a civic attitude to this phenomenon. As a result of mastering the discipline, students will be able to: navigate the legislation; analyze and apply normative legal acts in specific situations, follow moral and legal norms; to express and justify their own views on the issues of anti-corruption culture.	ON 1. To have the basics of economic knowledge, to have scientific knowledge about management, etc.; the ability to turn ideas into actions, to work with people, to have knowledge in the field of interaction with customers, personnel management, work with authorizing and authorized bodies, work with authorities. ON 10. Methods of using mechanical means, the basis of building economic and mathematical models of hunting	Fundamentals of business. Basic of economics

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Basic of economics	OE 3120	GER	CS	5	Bachelor	Economy	3	6	Mathematics with the basics of biometrics	Production practice	Basic of economics. Introduction. Basic concepts of economic theory. Economic needs, goods and resources. Consumption of products per capita; Types of economic systems. Market. Mechanism of its functioning	ON 1. To have the basics of anti-economic knowledge, to have corruption culture. Fundamentals of business	
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Forwarding-field equipment	EPS 3241	BS	ES	4	Bachelor	Hunting and Fisheries	3	5	General forestry	Hunting management planning	Expeditionary field equipment Discipline studies general life safety requirements in expedition conditions, necessary skills in the field, personal protection, expeditionary field equipment	ON 11. Own the main categories of field equipment and equipment, the basis of scientific research in hunting science; ON 13. To know the biological features of commercial animals, settlement of animals, to determine the appearance of biological condition, sex, age, disease and other characteristics of commercial animals	Expeditionary field research in hunting
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Expeditionary field research in hunting	EPIO 3207	BS	ES	4	Bachelor	Hunting and Fisheries	3	5	Forest botany	Technique of animal and bird production	Forwarding-field equipment Discipline studies and forms the ability to operate the basics of scientific research in hunting science, mastering the methods of planning field experience, observations and records, the ability to analyze and interpret the results of hunting research based on their statistical processing	ON 11. Own the main categories of field equipment and equipment, the basis of scientific research in hunting science; ON 13. To know the biological features of commercial animals, settlement of animals, to determine the appearance of biological condition, sex, age, disease and other characteristics of commercial animals	Forwarding-field equipment

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Ecology and life safety	EBZh 3205	BS	ES	5	Bachelor	Ecology	3	5	Theriology	Biology of fur-bearing animals	Ecology and health and safety. The discipline studies the patterns of interaction of organisms and their habitats, the laws of development and existence of biogeocoenoses as complexes of interacting living and non-living components in various areas of the biosphere, issues of preservation of human health and life in the technosphere, protection from hazards of man-made and natural origin and creation of comfortable living conditions.	Ecology and life safety	Labor protection and basics of life safety
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Labor protection and basics of life safety		BS	ES	5	Bachelor	Agrarian Technique and Technology	3	5	General forestry	Fur farming, Pre diploma practice	Labor protection and basics of life safety. Discipline contributes to the formation of students' knowledge, practical skills to create safe living conditions, to prevent the causes and prevent the occurrence of dangerous situations, to protect the population and production personnel and facilities of the national economy from possible consequences of emergency situations. Supervision and control of the implementation of legislation and responsibility for violations of labour protection requirements.	Ecology and life safety	Labor protection and basics of life safety
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Breeding of Pheasants	OTOBZh3 246	AS	ES	5	Bachelor	Hunting and Fisheries	4	7	Ornithology, Bioengineering and game breeding	Trophy case with the basics of taxidermy	Breeding of Pheasants includes the study of pheasant biology, the organization of pheasant farms, pheasant production, the maintenance and feeding of pheasants, the peculiarities of pheasant breeding, zootechnical accounting and data processing, pheasant reproduction, modern scientific methods and principles of rational breeding of pheasants, rocks of pheasants.	Breeding of Red deer	Breeding of Red deer

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Breeding of Red deer	Mar 4313	AS	ES	5	Bachelor	Hunting and Fisheries	4	7	Theriology, Bioengineering and game breeding	Diploma work	Breeding of Red deer The discipline provides the study of origin, economic and biological features, the constitution, exterior and interior of marals; the study of maralovy products; the study of methods of breeding and breeding of animals; Study of herd reproduction and rearing of young; Study of feeding and keeping of Red deer; Development of production technologies of Red deer Breeding	ON 1. Working with authorities, ON 11 Determination of breeding by methods of breeding work, ON 14. Know the main products of commercial hunting, as well as the technology of processing various types of products of animal origin, biological features of marals, exterior, constitution and interior, productivity, methods of evaluation of reproductive qualities.	Breeding of Pheasants
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Mathematics with the basics of biometrics	MOB 2216	BS	ES	5.0	Bachelor	Higher Mathematics	2	3	Physical education.	Basic of economics	Mathematics with the basics of biometrics. The discipline studies the basic methods of solving basic problems considered within the discipline, types and methods of processing and analysis of biological and environmental data, based on the use of mathematical statistics and modern computing technology, with simple biometric data processing techniques.	ON 1. Have the basics of economic knowledge based on the use of mathematical statistics, with the mastery of simple techniques of biometric data processing	Biophysics
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Biophysics	Bio2244	BS	ES	5	Bachelor	Physics and Chemistry	2	3	Information and communication technologies	Higher Mathematics	Biophysics deals with the physico-chemical phenomena occurring in living organisms, which are the basis of elementary life processes, as well as the action of physical factors on the body. The main task of biophysics is to study the processes associated with the transformation of the chemical energy of the components of living matter into other forms of energy - mechanical and osmotic work, electrical and radiation energy.	ON 1. Mastering simple biometric data processing techniques	Mathematics with the basics of biometrics
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Microbiology and Virology	MV 2239	BS	ES	5	Bachelor	Microbiology and Virology	2	4	Animal Physiology, Biochemistry	Diseases of animals and birds, Pisciculture	Microbiology and virology: Basic information on the place of prokaryotes and eukaryotes among living organisms, morphology, physiology and genetics of microorganisms, as well as metabolism in microbial cells. General characteristics of viruses. Use of microorganisms and their metabolites in the food industry. Influence of external factors on microorganisms. Metabolic mechanisms in micro-organisms. Conversion of nitrogen compounds by micro-organisms	ON 6. To know the physical and physico-chemical processes in a living organism, the regularities and mechanisms of the influence of physical factors on the organism, biophysical research methods, ON 8. To know the modern views on the problem of separation of micro-organisms from eocytes, phenotypic and genetic approaches to the problem of identification of bacteria, features of the methodology for studying microorganisms	Chemistry

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Chemistry	Him 2208	BS	ES	5	Bachelor	Physics and Chemistry	2	4	Biochemistry, Zoology	Trophy case with the basics of taxidermy	Chemistry. To form at students a system of fundamental knowledge of the basic laws of chemistry and physico-chemical methods of analysis with subsequent application in professional activity and use for solving engineering problems. Study of the basic laws of chemistry, chemical reactions, peculiarities of their course, control methods, theory of structure of organic compounds, classification of reagents and reactions in organic chemistry.	Basic laws of chemistry, essential substances and materials, calculations for chemical reaction equations;	Microbiology
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Basics of ichthyology	Ol 3249	BS	ES	4	Bachelor	Hunting and Fisheries	3	6	Biochemistry, Zoology	Fur farming, Zoogeography	Basics of ichthyology. The discipline studies the basics of systematics, structure, life and biodiversity of fish, periods of ontogenesis, biology, ecology and peculiarities of fisheries of main fish and fishing objects, the role of ichthyofauna in the functioning of aquatic ecosystems, The importance of water biological resources for human beings.	ON 3. Have an idea of the geographical distribution of animals, ON 5. Biological diversity of fish, biology, ecology, fisheries of main fish and fishery objects.	Pisciculture
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Pisciculture	Ryb 3201	BS	ES	4	Bachelor	Hunting and Fisheries	3	5	Zoology	Diploma work	Pisciculture Discipline studies the biological features of fish grown in fish farms. Ecological groups of fish. Growth and development of fish. Factors affecting the life of the fish. Types and forms of fish. Technology breeding fish. Fertilizing ponds. Organization of feeding fish.	ON 3. Main features of the organization of invertebrates, ichthyology and chords, volume and system type, morphological characteristics of representatives of each class, basics of systematics, structure, life characteristics of fish. ON 5 Technological processes of fish farming, basics of biogeocenosis in various parts of the biosphere, creation of comfortable living conditions	Basics of Pisciculture
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Parasitology	Par 3242	BS	ES	5	Bachelor	Veterinary Medicine	3	6	Microbiology and Virology	Fur farming	Parasitology. The discipline studies the goals and objectives of parasitology. History of parasitology. Classification of parasites. Parasitic protozoa, worms, molluscs, arthropods. Diseases caused by them. Prevention of parasitic diseases	ON 3. The main features of the organization of invertebrates and chords, ON 8. Phenotypic and genetic approaches to the problem of identification of bacteria, features of the methodology of study	Diseases of animals and birds

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Diseases of animals and birds	BZP 3212	BS	ES	5	Bachelor	Hunting and Fisheries	3	6	Omithology, Theriology	Zoogeography	Diseases of animals and birds studies evolution, nomenclature and classification of diseases of animals and birds, methods and methods of epizootological research, complex methods of diagnosis of diseases of animals and birds, principles of antiepidemic work in modern animal husbandry and in the conditions of hunting farms, means and methods of therapy and preventive treatment of animals and birds in diseases, the basics of veterinary sanitation.	ON 3 Morpho-ecological characteristics of representatives of each class ON 8. Classification of diseases, issues of diagnosis, prevention, analysis of pathological processes, the spread of infectious and non-communicable diseases of animals and birds. ON 13. Settlement of animals. determine by appearance biological state	Parasitology
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Simulation Hunting	MOH 4250	BS	ES	5	Bachelor	Hunting and Fisheries	4	7	Mathematics with the basics of biometrics	Diploma work	Simulation Hunting: studies the basics of building economic and mathematical models of hunting economy, economic interpretation of prediction of behavior of the model, find the optimal solution of the task, allowing to derive the maximum profit at a minimum of costs.	ON 2. Cell and genetic engineering; ON 3. Volume and type system.	Zoogeography
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Zoogeography	Zoo 4206	BS	ES	5	Bachelor	Hunting and Fisheries	4	7	Zoology, Basics of ichthyology	Diploma work	Zoogeography The discipline studies the main patterns of distribution of different animals depending on natural and climatic conditions. Forms theoretical knowledge in the field of animal ecology	ON 2. Know the chemical basis of biological processes and the structure of biomolecules; ON 3. Have an idea of the geographical distribution of animals, the causes and patterns of fauna formation, the main features of the organization of invertebrates and chords, volume and system of type, morpho-ecological characteristics of representatives of each class, basics of systematics, buildings, life activity.	Simulation Hunting
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	English for special purposes	AYaDSC 2240	BS	ES	3	Bachelor	Foreign language	2	4	Foreign language	Technique of animal and bird production	English for special purposes The discipline is aimed at the study of general scientific terminology and terminology under the language of the respective specialty in English, forms the ability to read with full understanding of authentic texts in the specialty, the ability to write an essay on the problem of specialty, the ability to perceive hearing authentic messages containing professional information, the ability to discuss the issues of specialty	ON 7. Special terminology in English.	Professionally-oriented Foreign Language

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Professionally oriented Foreign Language	POIYa 2227	BS	ES	3	Bachelor	Foreign language	2	4	Foreign language	Biology of fur-bearing animals	<p><i>Professionally oriented foreign language</i></p> <p>To form a professional foreign-language speech of future specialists to raise the level of professional competence, knowledge of a professional foreign language for the implementation of written and oral information exchange, further development of speech activity. Rules of speech behavior in accordance with situations of professional communication depending on the style and nature of communication in social and academic spheres.</p>	<p>ON 10. To know the stages and periods of development of hunting exercises, ON 11. Methods of tools of hunting.</p> <p>ON 12. To have an understanding of commodity properties and technological methods of primary processing, storage, transportation, characteristic;</p> <p>ON 14. Have the basics of hunting and fishing hunting animals and birds. Know the main products of commercial hunting.</p>	English for special purposes
-------------------	-------------------------------------	---------------------------------------	--	------------	----	----	---	----------	------------------	---	---	------------------	--------------------------------	---	--	------------------------------

B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Basics of farming	OFD 4215	BS	ES	3	Bachelor	Hunting and Fisheries	4	7	Hunting management planning	Diploma work	<i>The basis of farming</i> involves the study of the formation of modern ideas, knowledge of the basics of organization and conduct of farming, knowledge of the theoretical bases of organization of the farm (peasant) farms; acquisition of knowledge on the rational conduct of the agricultural production process in the farm (peasant) economy.	ON 5. Have an idea of the development of farms, formation and skills on the basics of organization. ON 10, improving prediction of hunting model performance	Entrepreneurial activity in the agricultural sector
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Entrepreneurial activity in the agricultural sector	PDAS 4247	BS	ES	5	Bachelor	Экономіка	4	7	Technique of animal and bird production	Diploma work	<i>Entrepreneurial activity in the agricultural sector</i> studies the types and legal bases of entrepreneurial activity in hunting. The content of entrepreneurial activity is freely carried out, not prohibited by law, activities in hunting and animal husbandry.	ON 5 Development of agriculture as a form of small and medium business in agro-industrial complex. ON 10. Improving model performance prediction	Basics of farming
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Hunting and fishing products	OPP 4316	BS	ES	6	Bachelor	Hunting and Fur farming	4	8	Technique of animal and bird production	Diploma work	<i>Hunting and fishing products</i> Hunting products: fur, leather, wild bird skins, meat, fat, bone, feather and feather, skull, horn, hoof, teeth and other body parts of animals, bird eggs and reptiles as well as processing technology for various animal products	ON 10. To know the stages and periods of development of hunting exercises, ON 11. Methods of tools of hunting ON 12. To have an understanding of commodity properties and technological methods of primary processing, storage, transportation, characteristic; ON 14. Have the basics of hunting and fishing hunting animals and birds. Know the main products of commercial hunting.	Technology of production of hunting products
B079 - «Forestry»	6B08301 - «Hunting and Fur farming»	Full-time (bachelor 4 years) semester	Technology of production of hunting products	TPPOH 4316	BS	ES	6	Bachelor	Hunting and Fur farming	4	8	Technique of animal and bird production, Accounting of animals and birds	Diploma work	<i>Technology of production of hunting products</i> . Importance of hunting products for public supply of consumer goods, role of hunting products in export, meat of commercial mammals,	ON 10. Division of the farm into plots for different purposes ON 11. The value of thoroughbred breeding, materials, its primary processing, standardization on the basis of GOST and ND, ON 14. Know the main products of commercial hunting, as well as the technology of processing various animal products	Hunting and fishing products

The catalog of elective disciplines was approved by the protocol of the council of the faculty of FFWE

26 December 2023, Protocol 5

Head of the department

G.A. Aubakirova