

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
Stepan Gzhytskyi National University
of Veterinary Medicine and Biotechnologies of Lviv

Faculty of Veterinary Medicine

CATALOGUE
of academic disciplines of free choice for higher education applicants
BY SPECIALTY H6 "VETERINARY MEDICINE"
of the field of knowledge H "Agriculture, forestry, fisheries and veterinary medicine"

Lviv 2025

Department of Normal and Pathological Morphology and Forensic Veterinary Medicine

<i>The name of the discipline</i>	Biology and morphology of birds
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Tybinka A.M., d.vet.s., profesor
<i>Recommended Semester(s)</i>	3-4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Study of biological and morpho-functional features of the whole bird organism and its individual organs and systems. At the same time, the combination of biology and morphology will allow to characterize the dynamics of their individual development, find out the adaptive capabilities of the organism to changing conditions of the external and internal environment, to establish its reserves and to identify critical periods of development.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - studying the morphological characteristics of bird tissues and organs, taking into account species, breed, sex and age differences; - focusing on the differences in the structure of individual organs and their systems in mammals and birds; - justification of the relationship between anatomical and physiological indicators; - characterization of the biological adaptation of different species of birds to the aquatic environment, flight conditions, and nutrition; - research into the processes of forming economic and useful indicators and productive qualities of birds.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. General biological and morphological characteristics of the bird organism, common and distinctive features with other classes of vertebrates. 2. Biological adaptations of the bird's locomotion apparatus, body shape and methods of movement. 3. Morpho-functional characteristics of the skin of birds and its derivatives. 4. Morphological features of the digestive apparatus of birds and the influence of the method of feeding on it. 5. Morphological and functional characteristics of the respiratory system of birds. 6. Morpho-functional characteristics and

	topography of bird urinary organs. 7. Circulatory and lymphatic organs of birds. Structure of hematopoietic organs and endocrine glands. 8. Morphology of the nervous system and its importance in ensuring the biological characteristics of the poultry organism.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Pathomorphology of poultry diseases
<i>Specialty</i>	H6 "Veterinary Medicine"
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kotsyumbas Galyna, Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	11-12
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	36
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	24
General description of the discipline	
<i>The purpose of studying the discipline</i>	Deepening the theoretical knowledge of future specialists regarding the pathogenesis and morphological changes in organs and tissues at macroscopic and microscopic levels in infectious diseases of poultry, developing skills in the clinical-anatomical approach to diagnosis, scientifically grounded treatment, and prevention of poultry diseases. Mastering practical skills in conducting postmortem examinations of poultry and collecting samples for laboratory investigations.
<i>The task of studying the discipline</i>	As a result of studying the discipline, students must: <ul style="list-style-type: none"> - master the technique and procedure for conducting a pathological autopsy of poultry and the rules for selecting pathological material for further laboratory studies (histological, microbiological, virological, etc.); - know the classification of poultry diseases depending on the nature of the course, etiological factor, species and age specificity; - be able to determine pathomorphological changes in organs and systems of the body depending on the type of disease; - know the procedure for establishing a diagnosis and differential diagnosis of diseases;

	<ul style="list-style-type: none"> - know the patterns of the anatomical and histological structure of organs of various systems of poultry; - determine the nature of the detected pathomorphological changes; - differentiate by etiological factor, distinguish between clinical and anatomical forms of the disease; - determine the nature of the detected pathomorphological changes; - differentiate by etiological factor, distinguish between clinical and anatomical forms of the disease; - identify the degree and nature of changes in organs and tissues at the histological level; - analyze and summarize pathomorphological data, draw up an autopsy report, and formulate a patho-anatomical diagnosis.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Conducting educational and diagnostic pathological autopsies of poultry with the selection and fixation of material for laboratory studies. Drawing up an autopsy protocol, analysis of the detected changes, formulation of a pathological diagnosis. 2. Immunomorphology of poultry. Stages of development and types of immune response, morphological changes in the central and peripheral organs of the immune system. Morphology of immunodeficiencies. 3. Pathogenesis, pathomorphological characteristics of bacterial aetiological diseases of poultry (salmonellosis, colibacteriosis, pasteurellosis, mycoplasmosis, tuberculosis, campylobacteriosis, ornithobacteriosis). 4. Pathogenesis, pathomorphological characteristics of poultry diseases of viral etiology (Newcastle disease, avian influenza, pneumovirus infection, infectious laryngotracheitis, avian bronchitis, Gamboro disease, adenovirus and reovirus infection of poultry, infectious anemia of chickens, infectious avian encephalomyelitis). 5. Pathogenesis, pathomorphological characteristics of mycoses (aspergillosis, candidiasis) and mycotoxicoses (T-2 toxicosis, ochratoxin, aflatoxin) of poultry. 6. Methodology for conducting diagnostic pathohistological studies. 7. Analysis of modern methods of laboratory research of poultry diseases with interpretation of results.
<i>The maximum number of students who can study at the same time</i>	90
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Biology and morphology of exotic animals
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<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Dankovych Roman Stepanovych, candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	To learn the principles of structural organization of the body of reptiles, exotic birds and mammals, as well as to study the peculiarities of adaptation of their body to environmental conditions. To study the peculiarities of feeding, breeding and reproduction of exotic animals in captivity.
<i>The task of studying the discipline</i>	To learn the principles of structural organization of the body of reptiles, exotic birds and mammals, as well as to study the peculiarities of adaptation of their body to environmental conditions. To study the peculiarities of feeding, breeding and reproduction of exotic animals in captivity.
<i>Brief content of the discipline</i>	<p>1. The subject of the discipline is the study of the morpho-functional features of various types of reptiles, exotic mammals and birds, as well as the main methods of their maintenance, breeding and feeding.</p> <p>2. The student will also be introduced to safety techniques during the study of exotic animals.</p> <p>3. The acquired knowledge will become a solid foundation in the formation of the student's medical thinking, since the correct diagnosis of diseases, the differentiation of patho-anatomical changes and the choice of effective treatment methods are impossible without knowledge of the morpho-functional features of the body. The acquired competences will help the student to future study of such disciplines as pathological anatomy, clinical diagnosis and therapy, epizootology, surgery, obstetrics, etc.</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Clinical pathology
<i>Specialty</i>	H6 "Veterinary Medicine"
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine

<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Zhyla Mykola, Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	11-12
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	36
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	24
General description of the discipline	
<i>The purpose of studying the discipline</i>	<p>Study of structural and molecular mechanisms of development of typical pathological processes in organs and systems, general properties and features of functioning of the sick organism, systematization and understanding of some aspects of pathogenesis of various morphological changes that occur in the organism during illness.</p> <p>Establishment of pathognomonic changes at the macro- and microscopic levels in animal diseases of various etiologies.</p>
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • study of morphological features of damage at the subcellular, cellular, tissue and organ levels; • study of the causes and mechanisms of development of typical pathological processes in various diseases, their manifestations, significance for the organism and consequences; • mastering methods of selection, fixation of material samples and preparation of preparations for histological, immunohistochemical studies for the purpose of diagnosis; • study of microstructural changes in histological preparations and mastering pathognomonic signs in certain animal diseases; • mastering the method of immunohistochemical study in rabies; • conducting histological diagnostics of neoplasms
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Morphology of lesions, cell pathology, patterns and mechanisms of development of various pathological processes. 2. Analysis of modern methods of laboratory diagnostics of intravital pathological conditions of the organism. 3. Pathomorphological characteristics of neoplasms. 4. Conducting pathological autopsy of animals for diagnostic purposes and selection of material for laboratory studies. 5. Assessment of the main pathomorphological changes in the diagnosis of infectious diseases in various animal species and their histological confirmation. 6. Assessment of the main pathomorphological changes in the diagnosis of diseases of non-infectious etiology in various animal species and their

	histological confirmation.
<i>The maximum number of students who can study at the same time</i>	120
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary oncomorphology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Shchebentovska Olga, Doctor of Veterinary Sciences, Associate Professor Blishch Halyna, Candidate of Veterinary Sciences, Assistant
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	36
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	24

General description of the discipline

<i>The purpose of studying the discipline</i>	Verifying various types of neoplasms in dogs and cats, identifying their pathogenetic development mechanisms, establishing criteria for malignancy, and effective diagnostic methods, practicing cytological material collection techniques and preparing smears with interpretation, staining methods, and recognition of artifacts.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • to study morphological features of neoplasms at the subcellular, cellular, tissue and organ levels; • to investigate the causes and developmental mechanisms of typical pathological processes in various oncological diseases, their manifestations and consequence • to master methods of selection, fixation of patmaterial samples and creating preparations for histological, immunohistochemical studies for the purpose of diagnosis; • to study microstructural changes in histological preparations and being able to recognize pathognomonic signs in oncological diseases of animals; • to apply specific diagnostic methods for the purpose of accurate verification of neoplasias in animals.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Basic requirements for issuing a referral for histopathological examination 2. Selection and preparation of material for histopathological examination. Methodology for selecting material for biopsy and cytological examination 3. Methods for producing and staining cytological preparations

	<p>4. Basic immunohistochemical verification methods in the differential diagnosis of epithelial, mesenchymal tumors and neoplasms from nervous tissue</p> <p>5. Cytological criteria for malignancy</p> <p>6. Terminology and principles of classification of neoplasms</p> <p>7. Pathohistological characteristics of neoplasms from epithelial tissue</p> <p>8. Pathohistological characteristics of neoplasms from mesenchymal tissue</p> <p>9. Pathohistological characteristics of neoplasms from nervous tissue</p> <p>10. Principles of forming a clinical pathohistological diagnosis</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

Department of Normal and Pathological Physiology named after S. V. Stoyanovsky

<i>The name of the discipline</i>	Neurophysiology with Fundamentals in Zoopsychology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kolomiets Iryna Anatoliivna, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	To study various levels of nervous system organization, complex feedback mechanisms, neurophysiological mechanisms of mental processes, primary forms of animal behavior and communication methods.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • Develop the ability to interpret phenomena in the central nervous system and manage them based on functional states, physiological processes, and regulation mechanisms. • Understand the unity and balance of nervous system processes, environmental factors, and physiological interaction at different development stages. • Deepen knowledge in behavioral functioning and apply psychophysiological foundations. • Master neurophysiology methods relevant for predicting productivity and acquiring new subject-specific knowledge.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Central Nervous System: Properties and Functions. Reflex Coordination. 2. Autonomic Nervous System: Regulation Mechanisms. 3. Physiology of Higher Nervous Activity. 4. Neurophysiological Basis of Mental Processes. 5. Fundamentals of Zoopsychology and Ethology. 6. Primary Behavior Forms. Mechanisms and Orientation. 7. Evolution of Human-Animal Relationships. 8. Experimental Psychology. 9. Adaptation and Rehabilitation Skills.
<i>The maximum number of students who can study at the same time</i>	150

<i>Language of teaching</i>	Ukrainian / English
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<i>The name of the discipline</i>	Veterinary Hematology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kolotnytskyi Viktor Anatoliiovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	9-10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	The main goal of the discipline "Veterinary Hematology" is the formation of skills in students for laboratory blood testing; study of morphological, physical and biochemical indicators of blood; and interpretation of pathological changes in animal body.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - to study the composition, morphological, physical, biochemical properties of blood in clinically healthy animals - to study the composition, morphological, and physical and chemical properties of blood in animals with pathologies (non-infectious or infectious origin) - to master research methods for studying the composition, morphological and physicochemical properties of blood in animals - to master research diagnostic evaluations of blood-related conditions based on blood laboratory tests for providing a clinical and diagnostic assessment of the animal health and favorable or unfavorable course of the pathological process - to develop clinical thinking and creative approach.
<i>Brief content of the discipline</i>	<p>1. General Hematology:</p> <p>Topic 1. Introduction to hematology.</p> <p>Topic 2. Hematopoiesis. Mechanisms of regulation.</p> <p>Topic 3. Morphofunctional characteristics of red blood cells in normal and pathological conditions.</p> <p>Topic 4. Morphofunctional characteristics of white blood cells in normal and pathological conditions.</p> <p>Topic 5. Morphofunctional characteristics of platelets in normal and pathological conditions. Hemostasis.</p>

	2. Specialized Hematology: Anemias, Hemoblastoses, Hemostasis Pathologies. Topic 1. Anemias and erythrocytosis. Topic 2. Hemoblastosis. Topic 3. Pathology of hemostasis
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Microelementology (Trace Element Study)
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Slepokura O.I., Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	5-6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Study macro- and microelement metabolism in animals, assimilation of mineral substances, their distribution in organs and tissues, excretion from the body.
<i>The task of studying the discipline</i>	Formation of skills in students for analyzing physiological processes in normal and pathological states.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Introduction: Definitions, Mineral Classifications. Historical reference. 2. Microelement Functions and Ukraine's Biogeochemical Zones. 3. Physiological role of mineral elements in the vital activity of the animal organism. 4. Determination Methods of mineral elements in soils, water, plants and biological material from animals. 5. Animal Mineral Nutrition. 6. Microelementoses: Metabolism Disruptions
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Biological Characteristics of Small Domestic Animals
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<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kolomiets I.A., Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	2-3
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Provide theoretical and practical insights into small animal care, breeding, and disease prevention and treatment
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - to study animal biology, course of physiological processes and mechanisms of their regulation in various organs and organ systems of clinically healthy small domestic animals, taking into account the direction of use, breed, age and gender differences - to know safety rules and standards, personal hygiene, asepsis and antiseptics for work with small pets, taking into account the direction of use, breed, age and gender differences - to study influence of various internal (species, age, breed, sex, level of productivity, physiological state) and external factors (season, time of day, environmental temperature, physical load, diet, insufficient supply etc.) on indicators of biological features and mechanisms of their regulation in clinically healthy small domestic animals, taking into account the direction of use, breed, age and gender differences
<i>Brief content of the discipline</i>	<p>Chapter 1 Introduction to the academic discipline Chapter 2 Biology of dogs of different breeds Chapter 3 Peculiarities of the biology of cats of different breeds Chapter 4 Features of the biology of rabbits Chapter 5 Biology of fur pets Chapter 6 Biology of guinea pigs Chapter 7 Features of the biology of domesticated hamsters Chapter 8 Birds and aquarium fish.</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Clinical pathophysiology
<i>Specialty</i>	H6 «Veterinary medicine»

<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kolotnytskyi V.A., Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	10-11
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The main goal of the discipline "Clinical Pathophysiology" is to teach students the ability to use the acquired knowledge about pathological processes that occur in the body, nature of compensatory mechanisms for choosing rational based methods of therapeutic treatment and optimal options for surgical intervention.
<i>The task of studying the discipline</i>	<p>Main tasks of the discipline are</p> <ul style="list-style-type: none"> - the ability to solve complex pathophysiological problems, which involves conducting research and their critical analysis; - knowledge and understanding of pathophysiology as a science and educational subject and its importance for the formation of a scientific picture of a disease or pathological process, as well as the specifics of professional activity in the field; - ability for abstract thinking, analysis and synthesis; - ability for information searching from various sources and processing; - learning to apply knowledge in practical situations; - knowledge and understanding of the subject area and understanding of the profession; - ability to conduct research at the appropriate level, make informed decisions, evaluate and ensure the quality of the work performed; - skills for communication with non-specialists in their field (experts from other fields); - skills to work in an international environment; - determination and persistence in relation to the assigned tasks and assumed responsibilities; - protect the environment; - ability for understanding of the structure and functioning of cells, tissues, organs and their systems in the animal body; - ability to use tools, special devices, laboratory equipment and other technical instruments to conduct necessary manipulations in professional activities;

	<ul style="list-style-type: none"> - conduct clinical research in order to formulate conclusions about the condition of animals or formulate a diagnosis; - ability to organize, conduct and analyze laboratory and special research studies.
<i>Brief content of the discipline</i>	<p>Disorders of Immune Reactivity, Hemostasis, and Pain.</p> <p>Topic 1. Disorders of immune reactivity of the body.</p> <p>Topic 2. Pathophysiology of extreme conditions.</p> <p>Topic 3. Pathophysiology of pain</p> <p>Topic 4. General adaptation syndrome (stress) and its importance for the body</p> <p>Pathophysiology of Circulation and Organ Functions.</p> <p>Topic 1. Disorders of immune reactivity of the body.</p> <p>Topic 2. Pathophysiology of extreme conditions.</p> <p>Topic 3. Pathophysiology of pain</p> <p>Topic 4. General adaptation syndrome (stress) and its importance for the body.</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary Nutrition
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kolotnytskyi Viktor Anatoliiovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	5-6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Formation in students a set of knowledge about the theoretical and practical value of small animal nutraceuticals, their classification, veterinary importance in ensuring disease prevention and maintaining optimal physical condition
<i>The task of studying the discipline</i>	The main tasks: providing theoretical and practical knowledge regarding the appointment of feed and feed additives, taking into account species, age and physiological specificity of domestic animals; develop strategies for disease prevention through nutrition.

<p><i>Brief content of the discipline</i></p>	<p>Nutrient Essentials, Diet Evaluation, and Supplements. Topic 1. Nutritionology: subject, purpose and tasks. Macro- and micronutrients, their content in feed Topic 2. Feeding ration, its completeness, balance, nutritional and energy value. Nutritional status, methods of its determination Topic 3. Biologically active supplements. Flavor and aroma additives Probiotics and prebiotics Nutritional Adjustments for Diseases (Diabetes, GI, Cardiovascular). Topic 4. Protein, lipid, carbohydrate and mineral nutrition of animals. Topic 5. Nutrient correction of diabetes, obesity and diseases of the gastrointestinal tract Topic 6. Nutrient correction of diseases of the cardiovascular system, musculoskeletal system and kidneys</p>
<p><i>The maximum number of students who can study at the same time</i></p>	<p>150</p>
<p><i>Language of teaching</i></p>	<p>Ukrainian / English</p>

Department of Pharmacology and Toxicology

<i>The name of the discipline</i>	Pharmaceutical case
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Vasiv R.O. c.vet.s., docent
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	36
General description of the discipline	
<i>The purpose of studying the discipline</i>	To deepen theoretical knowledge in the development, manufacturing technology, and commercialization of pharmaceuticals, as well as to familiarize oneself with regulatory and legislative documents governing the life cycle of medicinal products. To acquire practical skills in the chosen field and prepare a master's graduate for independent work.
<i>The task of studying the discipline</i>	<p>In the process of studying pharmaceutical sciences, students should acquire the following knowledge:</p> <p>Master methods of synthesis, pharmaceutical analysis, and principles of assessing the quality of pharmaceutical forms;</p> <p>Familiarize themselves with the composition of chemical elements in plants and learn methods for verifying the authenticity of medicinal plant raw materials (MPR);</p> <p>Understand the regulations and conditions of the technological process for manufacturing various pharmaceutical forms following standards and certification;</p> <p>Learn the requirements for finished pharmaceutical products' quality, safety, and standardization.</p> <p>Master the regulations on the registration (re-registration) of veterinary drugs, substances, finished feeds, and feed additives in Ukraine;</p> <p>Familiarize themselves with the conditions for conducting business activities related to the production of veterinary medicines and drugs, as well as wholesale and retail trade of veterinary pharmaceuticals;</p> <p>Master the basic rules for the distribution of veterinary medicines and drugs;</p> <p>Learn the rules for transporting and storing veterinary drugs, substances, finished feeds, feed</p>

	additives, and veterinary medical products in veterinary pharmacies, their structural units, warehouses, and storage facilities.
<i>Brief content of the discipline</i>	Fundamentals of Pharmaceutical Chemistry and Methods of Pharmaceutical Analysis. Fundamentals of Pharmacognosy. Technology of Pharmaceutical Form Production, Requirements for the Technological Process following ISO, GMP, and GSP Standards. Registration Dossier of a Drug: Requirements and Rules for Submitting Veterinary Drug Registration. Evaluation of the Effectiveness, Safety, and Stability of Drugs. Fundamentals of Organization, Pharmacy Economics, and Marketing of Veterinary Drugs.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Clinical pharmacology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Vasiv R.O. c.vet.s., docent
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	36
General description of the discipline	
<i>The purpose of studying the discipline</i>	The main goal of teaching the discipline "Clinical Pharmacology" is to acquire knowledge, skills, and competencies in veterinary medicine, specifically to study the effects of pharmaceuticals on the organisms of both healthy and diseased animals. Students will learn to select the most effective and safest drug for therapy and prevention from all available options, considering comorbidities when making a final diagnosis.
<i>The task of studying the discipline</i>	Advanced knowledge of clinical pharmacology allows for determining the correct regimen for drug administration, selecting the appropriate dosage form and route of administration, and preventing and eliminating adverse reactions and undesirable drug interactions. Clinical pharmacology is based on experimental data, theoretical principles of pharmacology and

	<p>other veterinary-biological sciences, and clinical discipline case studies. Teaching clinical pharmacology is most effective when considering the etiology of diseases, key pathogenetic mechanisms, clinical course, and relevant pharmaceuticals, along with their comparative analysis and optimal selection.</p> <p>In this course, students will learn to:</p> <p>Analyze data from educational and specialized literature to solve professional tasks related to prescribing medications for treating animals and preventing diseases;</p> <p>Navigate the vast array of pharmaceutical drugs and scientifically justify the selection of a particular drug based on its pharmacological action, animal species, and pathological process development to achieve maximum therapeutic effect with minimal side effects;</p> <p>Develop pharmacological treatment plans for animals, considering drug compatibility and pharmacological interactions.</p>
<i>Brief content of the discipline</i>	<p>Pharmacotherapy for Infectious Diseases, Antiviral Drugs.</p> <p>Pharmacotherapy for Disorders of the Central Nervous System.</p> <p>Pharmacotherapy for Obstetric Pathologies.</p> <p>Pharmacotherapy for Diseases of the Digestive System.</p> <p>Pharmacotherapy for Respiratory Diseases.</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Pharmacognosy
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Vyniarska A.V., c.vet.s., docent
<i>Recommended Semester(s)</i>	7
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The study focuses on widely used medicinal plants, fungi, lichens, and algae in veterinary medicine, which are classified according to their chemical structure, pharmacological action, and

	applications. The course promotes the reproduction and conservation of medicinal plant resources.
<i>The task of studying the discipline</i>	The objectives of the discipline include: mastering knowledge of the chemical composition, pharmacological effects, indications, and contraindications for the use of drugs and products derived from specific widely used medicinal plants, fungi, lichens, and algae. This knowledge will enable veterinary professionals to apply plant-based medicinal products for treating animals, preventing diseases, and stimulating physiological functions and animal productivity.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Characteristics of a specific medicinal plant presented in the following scheme: the name of the medicinal plant material (in Ukrainian and Latin), description, chemical composition, pharmacological action, and application. 2. Effects of plant-based remedies on the digestive system and liver. 3. Effects of plant-based remedies on the cardiovascular and nervous systems. 4. Effects of plant-based remedies on the respiratory system. 5. Impact of toxic and harmful plants on animals. 6. Medicinal products and pharmaceutical forms made from plant materials and their applications. 7. Analytical regulatory documentation.
<i>The maximum number of students who can study at the same time</i>	15
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Methods of chemical and toxicological analysis
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Leskiv Kh. Ya., c.vet.s., docent
<i>Recommended Semester(s)</i>	7
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The goal of teaching the course "Methods of Chemical-Toxicological Analysis" is to provide

	<p>the theoretical foundation for studying the organization of toxicological research and methods for detecting poisonous substances in biological material using modern chemical-toxicological analysis techniques.</p> <p>Mastering the knowledge in this discipline will enable a veterinary physician working in a laboratory to widely apply these methods in their everyday work when diagnosing poisoning.</p>
<i>The task of studying the discipline</i>	The goal is to develop in students the medical thinking and practical skills necessary for the professional activities of a veterinary physician.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Organization of the Chemical-Toxicological Department's Work According to ISO Requirements. 2. Organization of the Work of Chemical-Toxicological Departments in Veterinary Laboratories in Ukraine (according to DSTU: ISO requirements). 3. Rules for the Selection, Packaging, and Shipping of Pathological and Biological Materials to the Chemical-Toxicological Department of the Laboratory. 4. Methods of Detecting Poisonous Substances from Various Veterinary Control Objects (pathological material). 5. Identification and Quantification of Heavy Metals using Atomic Absorption Spectrophotometry, ICP-OES. 6. Identification and Quantification of Pesticides (fungicides, herbicides, zoocides, synthetic pyrethroids) using LC-MS/MS, GC-MS/MS. 7. Methods for Diagnosing Mycotoxins (HPLC, ELISA), Identification of Mycotoxins in Animal and Plant Products.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Preclinical and clinical research of drugs
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Hunchak V.M., d.vet.s., profesor
<i>Recommended Semester(s)</i>	7
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl. lectures</i>	48
	16

<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	<p>The main goal of the course is to prepare the theoretical and practical prerequisites for mastering the methods of researching the effectiveness of medicines and their side effects in various pathological processes. Preclinical studies of medicines are a stage in drug development that includes a set of research procedures and operations to determine the safety and specific activity to obtain permission for clinical trials, followed by introducing the drug into industrial production and medical practice. Clinical trials are a mandatory stage of researching a new or already known medicinal product registered for use. This stage is conducted under clinical conditions, that is, under the supervision of doctors in equipped hospitals. Research is based on carefully validated positive data from preclinical trials.</p> <p>The purpose of the above studies is to determine their therapeutic effectiveness, as well as the impact on the main anatomical and physiological systems of the body. In studying the pharmacodynamics of a new medicinal product, not only its specific pharmacological action is determined, but also potential side effects related to its mechanism of action. The impact of medicinal products on both healthy and sick organisms can vary, which is why pharmacological studies are conducted on healthy animals and animals with modeled pathology. Regarding clinical research of medicines, the main goal is to prove the clinical efficacy of the medicinal product when tested on a specific group of patients.</p>
<i>The task of studying the discipline</i>	<p>In the process of studying preclinical and clinical research of medicines, students should acquire the following knowledge:</p> <p>To train students to research medicines according to international Good Laboratory Practice (GLP) standards to ensure the quality and reliability of results obtained during research. The principles of GLP are an administrative concept encompassing the organizational process and conditions under which laboratory tests are planned, conducted, monitored, recorded, and stored. The results of the tests are reported.</p> <p>To teach students to develop and implement therapeutic dosages of a drug for specific pathologies and clinical courses, considering pharmacological incompatibility, and to propose a dosing regimen under specific circumstances of</p>

	disease progression to minimize the manifestation of drug side effects.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. The main principles of drug testing. Alternative methods for determining the side effects (toxicity) of drugs and establishing the long-term effects of drug action. 2. Preclinical studies on laboratory animals for drugs. 3. Clinical stage of drug development. 4. Selection of clinical trial sites and requirements for experimental animals. 5. Basic principles of conducting clinical trials of drugs. 6. Scientific and methodological approaches to organizing clinical trials of veterinary drugs and feed additives.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Environmental safety of pharmaceuticals
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Chariv I.I., c.biol.s., docent
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	36
General description of the discipline	
<i>The purpose of studying the discipline</i>	The subject of the academic discipline is the study of the fundamentals of ecological safety of pharmaceuticals.
<i>The task of studying the discipline</i>	<p>The main goal of the discipline "Ecological Safety of Pharmaceuticals" is for students to master the quantitative and qualitative patterns of mechanisms of both direct and indirect effects of pharmaceuticals, especially their residues, on the existence of various living organisms in the environment and to prevent negative processes in biocenoses.</p> <p>Upon completion of the course, the student should be able to demonstrate the following learning outcomes: knowledge of the action of different groups of pharmaceuticals, the basics of pharmacokinetics and pharmacodynamics, the mechanisms and pathways of interactions</p>

	between pharmaceuticals and living organisms; understanding traditional antidotology in cases of poisoning of territories, animals, and humans; measures to prevent the negative effects of pharmaceuticals in the context of chemical disasters, violations of transportation, storage, and application conditions of pharmaceuticals; principles of standardization and regulation of pharmaceuticals in agroecosystems.
<i>Brief content of the discipline</i>	The discipline includes the following key sections: ecological effects of pharmaceutical contamination, their impact on environmental objects and technical agricultural products; applied problems of ecotoxicology of pharmaceuticals, regulation, bio-testing, and ecotoxicological monitoring. All these sections have direct theoretical and practical significance for all specializations.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Phytopreparations in veterinary medicine
<i>Specialty</i>	H6 Veterinary medicine
<i>Educational degree</i>	master
<i>Освітньо-професійна програма</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Vyniarska A.V. c.vet.s., docent
<i>Recommended Semester(s)</i>	5
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Students will gain theoretical knowledge about the biological activity of various plant extracts, study technologies for producing pharmaceutical forms based on medicinal plant raw materials, and analyze the effectiveness of phytopreparations in treating and preventing animal diseases. They will also explore the pharmacological properties of these preparations, examine clinical cases involving phytopreparations, and learn methods for assessing their safety and efficacy.
<i>The task of studying the discipline</i>	The training aims to develop in higher education students the following competencies: - Ability to think abstractly, analyze, synthesize, and search for and process information from various sources. - application of knowledge in practical

	<p>situations.</p> <ul style="list-style-type: none"> - use of information and communication technologies in professional duties (e.g., mobile applications for plant identification such as <i>Picture This, Blossom, Plant Snap, Naturalist</i>). - ability to conduct research at an appropriate level and make well-founded decisions based on the work conducted. - proficiency in using tools, specialized devices, instruments, laboratory equipment, and other technical means for performing necessary manipulations in professional activities. - risk analysis skills related to the conservation and rational use of medicinal plants. - ability to comply with occupational safety and environmental protection regulations. - competence in applying theoretical knowledge of best practices for medicinal plant collection and phytopreparation production.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. The Role of Phytopreparations in Veterinary Medicine. 2. Classification of Plants Used in Veterinary Medicine. 3. Biologically Active Substances and Their Properties. 4. Cultivation and Harvesting of Medicinal Plants. 5. Technologies for the Production of Phytopreparations. 6. Clinical Use of Phytopreparations in Veterinary Medicine. 7. Quality Control and Standardization. 8. Ethics of Using Phytopreparations in Veterinary Medicine.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

Department of Epizootology

<i>The name of the discipline</i>	Infectious diseases of dogs and cats
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kisera Yaroslav Vasilyovych, Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	30
<i>lectures</i>	60
<i>laboratory (practical) classes</i>	24
General description of the discipline	
<i>The purpose of studying the discipline</i>	Study of etiology, pathogenesis, methods of diagnosis and prevention of infectious diseases of dogs and cats. During the study of the discipline, attention is focused on the most relevant and common diseases; modern views on the essence of deep processes in the development of the disease are presented. The knowledge obtained will allow the specialist to interpret the mechanisms in the development of the identified morpho-functional changes in the body and their relationship at different levels - from the tissue to the level of the whole organism to develop substantiated methods of disease prevention.
<i>The task of studying the discipline</i>	During the training, students should know: - classification, syndromes of infectious diseases, their etiology; – regularities of the development of the epizootic process in various diseases; – methods of diagnosing infectious diseases of various etiologies; – techniques of clinical examination of animals, administration of therapeutic substances; – effective methods of preventing infectious diseases; – be able to apply the acquired knowledge in practice; – use the main special methods of clinical examination of infectious animals; – evaluate the results of laboratory studies; – draw up clinically and physiologically justified treatment regimens for animals; – develop and implement a set of preventive measures in the conditions of a small animal clinic.
<i>Brief content of the discipline</i>	1. Viral diseases of dogs. 2. Bacterial and fungal diseases of dogs. 3. Viral diseases of cats.

	4. Bacterial and fungal diseases of cats.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Infectious diseases of cattle, sheep and goats
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kisera Yaroslav Vasilyovych, Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	4
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	42
<i>lectures</i>	6
<i>laboratory (practical) classes</i>	36

General description of the discipline

<i>The purpose of studying the discipline</i>	In-depth study of the etiology, pathogenesis, methods of diagnosis and prevention of infectious diseases of cattle, sheep and goats. The ultimate goal of studying the discipline is the innovative application of the acquired knowledge and skills to develop algorithms for diagnosing diseases, conducting laboratory research, and developing scientifically based principles for the prevention of infectious diseases. All topics have a clinical focus. They are the basis for the student's training, which is important in the work of practicing veterinary doctors.
<i>The task of studying the discipline</i>	During the training, students should know: <ul style="list-style-type: none"> - the importance of preventive measures in the system of farm (settlement) well-being regarding infectious diseases; - methods of improving farms (settlements) that are disadvantaged by infectious diseases; - the procedure for organizing and conducting animal treatments; - be able to develop and carry out measures for the prevention and elimination of infectious diseases; - master modern methods of diagnosing infectious diseases of cattle, sheep and goats; - master the criteria for ensuring timely diagnostics; quarantine of disadvantaged areas; isolation and elimination of epizootic outbreaks; inactivation of the pathogen in premises, equipment and contaminated territory in the event of infectious diseases.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Viral diseases of cattle. 2. Bacterial diseases of cattle.

	3. Viral diseases of sheep and goats. 4. Bacterial diseases of sheep and goats.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Infectious diseases of pigs
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kisera Yaroslav Vasilyovych, Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	4
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	34
General description of the discipline	
<i>The purpose of studying the discipline</i>	Study of epizootological aspects of infection, infectious disease and forms of immunity in pigs, the importance of the state of natural resistance and immunobiological reactivity of animals in the development of infection and the occurrence of infectious diseases. Features of pathogenesis, diagnostics, therapy and prevention of infectious diseases of pigs, features of epizootological examination of disadvantaged farms, settlements and determination of the epizootic state of these objects. Conducting diagnostics of factor diseases, features of the development of the epizootic process and its driving forces in infectious diseases of pigs, anti-epizootic and quarantine measures in epizootic foci, disadvantaged areas and dangerous zones, mastering methods and means of conducting and quality control of veterinary and sanitary measures.
<i>The task of studying the discipline</i>	During the training, students must know: - methods of epizootic analysis; - basics of epizootic forecasting; - features of anti-epizootic measures in farms of different types and forms of ownership; - the place and importance of disinfection, deratization and disinsection in the complex of anti-epizootic measures; - be able to conduct an epizootic examination of the farm, establish the causes of morbidity and death of pigs; - identify the ways of introducing the infectious agent into the farm and determine the patterns of the epizootic process in specific conditions; - develop and

	implement a system of health measures in the epizootic outbreak.
<i>Brief content of the discipline</i>	1. Viral diseases of pigs. 2. Bacterial diseases of pigs. 3. Infectious diseases of piglets. 4. Mycoses and mycotoxicoses of pigs.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Bee diseases
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Romanovych M.S., Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	10,11,12
<i>Number of ECTS credits</i>	4
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	64
<i>lectures</i>	32
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of the discipline is to help students acquire knowledge, develop skills and abilities in diagnostics, treatment and measures to combat infectious and non-infectious diseases, as well as enemies and pests of bees.
<i>The task of studying the discipline</i>	The main objectives of the academic discipline: – to provide knowledge of the biology of the honey bee; – to familiarize students with apiary equipment – to develop skills in conducting diagnostic studies of bee colonies; – to develop independence in solving problems related to the diagnosis, treatment – and prevention of bee diseases; – to teach how to develop and implement effective measures to combat bee colony diseases.
<i>Brief content of the discipline</i>	1. Biology of the honeybee (bee colony, anatomy and physiology of the bee, development of 30 bees, natural swarming, bee breeds). 2. Beekeeping products (honey, wax, pollen, propolis, bee venom, royal jelly). 3. Beekeeping equipment and inventory (hives, inventory and equipment for bee care, honey production, wax production). 4. Diagnosis of bee diseases (features of the epizootic process of infectious diseases, diagnostic methods).

	<p>5. General prevention measures for bee diseases.</p> <p>6. Disinfection in the apiary (disinfection of hives, honeycombs, supplies).</p> <p>7. Bacterial diseases of bees (American rot, European rot, pararot, septicemia, hafniosis, salmonellosis, colibacteriosis, spiroplasmosis).</p> <p>8. Mycoses (ascosporosis, aspergillosis, melanosis).</p> <p>9. Viral diseases (saciform brood, paralysis, filamentovirus, Egyptovirus).</p> <p>10. Invasive diseases (nosematosis, acarapidosis, varroosis, arachnosis, braulosis, helminthiasis).</p> <p>11. Non-communicable diseases (cold brood, bee and brood steaming, hydrocarbon starvation, protein dystrophy, pollen toxicosis, fall toxicosis, chemical toxicoses).</p> <p>12. Enemies and pests of bees (wax moths, ants, mites, birds, flies, wasps and hornets, rodents).</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	State Veterinary and Sanitary Control and Supervision
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kurtyak B.M., Doctor of Veterinary Science, Professor, Romanovych M.S., Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	4
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	50
<i>lectures</i>	20
<i>laboratory (practical) classes</i>	30
General description of the discipline	
<i>The purpose of studying the discipline</i>	It is based on a large block of economic and clinical disciplines and, ultimately, it forms the necessary foundation for the final formation of a veterinary medicine specialist - an organizer of veterinary events.
<i>The task of studying the discipline</i>	<p>1. Implementation of modern methods of safe, sanitary-conditioned keeping and feeding of animals and care for them.</p> <p>2. Monitoring compliance with and implementation of current regulatory legal acts regarding methods and measures for treating animals suffering from non-communicable, infectious and invasive diseases.</p>

	<p>3. Carrying out planned preventive treatments against infectious and invasive diseases and medical examinations of animals in order to prevent their diseases and obtain high-quality and safe products.</p> <p>4. Monitoring the quality of livestock products, beekeeping and aquaculture products at all stages of their production, transportation and sale - from the farm and field to the table.</p> <p>5. Making the right decisions regarding the compliance of the conditions of production, transportation, sale of livestock, beekeeping and aquaculture products with current regulatory legal acts.</p> <p>6. Organization and procedure for carrying out various medical and preventive measures, maintaining documentation on the expenditure of funds for the implementation of professional activities.</p>
<i>Brief content of the discipline</i>	<p>1. Veterinary legislation of Ukraine</p> <p>2. Structure of the OIE, its principles, regulatory documentation regulating its activities.</p> <p>3. Terrestrial Animal Health Code (general concepts).</p> <p>4. International law in the field of veterinary medicine.</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary service (organization and economics of state and private veterinary practice)
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	B.M. Kurtyak, Doctor of Veterinary Science, Professor, M.S. Romanovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	7 / 210
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	72
<i>lectures</i>	24
<i>laboratory (practical) classes</i>	48
General description of the discipline	
<i>The purpose of studying the discipline</i>	It is based on a large block of economic and clinical disciplines and, ultimately, it forms the necessary foundation for the final formation of a veterinary medicine specialist - an organizer of veterinary events.

<p><i>The task of studying the discipline</i></p>	<ol style="list-style-type: none"> 1. Monitoring compliance with and implementation of current regulatory legal acts regarding methods and measures for treating animals with non-communicable, infectious and invasive diseases. 2. Implementation of modern methods of safe, sanitary-conditioned keeping and feeding of animals and their care. 3. Implementation of a system of measures aimed at protecting the population from diseases common to animals and humans. 4. Quality control of livestock products, beekeeping and aquaculture products at all stages of their production, transportation and sale - from the farm and field to the table. 5. Monitoring the storage of livestock and veterinary medical waste. 6. Interaction with specialists, business entities and the population to ensure production and commercial activities. 7. Analysis of the feasibility of using funds for various medical and preventive measures and other types of professional activities. 8. Control over the level of office work, evaluation of the marketing strategy aimed at the use of highly effective veterinary drugs, modern equipment and materials, preparation of proposals for increasing the productivity of industry specialists. 9. Organization and procedure for carrying out various medical and preventive measures, maintaining documentation on the expenditure of funds for professional activities.
<p><i>Brief content of the discipline</i></p>	<ol style="list-style-type: none"> 1. Introduction to the discipline. The system of veterinary services in Ukraine and the world. 2. Organization of veterinary services. 3. Planning, organization and economics of veterinary activities. 4. Veterinary and sanitary control and supervision. 5. Financing of veterinary activities and ensuring the implementation of state anti-epizootic measures. 6. The essence and principles of modern management and marketing. 6. Veterinary accounting, reporting and office work
<p><i>The maximum number of students who can study at the same time</i></p>	<p>150</p>
<p><i>Language of teaching</i></p>	<p>Ukrainian / English</p>

<p><i>The name of the discipline</i></p>	<p>Epizootology and system of diagnostic procedures</p>
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<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Vishchur O.I., Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	10
<i>Number of ECTS credits</i>	3 / 90
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	It consists in deepening the theoretical and practical knowledge of the master's student regarding the diagnosis, treatment and prevention of infectious diseases of animals, acquiring practical laboratory skills, as well as the ability to correctly diagnose infectious diseases and preparing him for independent scientific and practical work.
<i>The task of studying the discipline</i>	<ol style="list-style-type: none"> 1.learn to apply theoretical and practical knowledge in laboratory diagnostics of infectious diseases; 2.apply a systematic approach to using the capabilities of laboratory diagnostics of infectious diseases in a complex of diagnostic and treatment procedures; 3.use of the diagnostic capabilities of a modern infectious disease laboratory; 4.ability to use special devices, instruments, laboratory equipment, tools and other technical means to perform the necessary manipulations during professional activities; 5.ability to organize, conduct and analyze laboratory and special studies; 6.performance of basic laboratory methods; 7.formation of skills in interpreting research results, understanding of standardization.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Laboratory diagnostics of infectious diseases common to many species of animals and humans. 2. Laboratory diagnostics of infectious diseases of animals (diseases of bacterial etiology). 3. Laboratory diagnostics of infectious diseases of animals (diseases of viral etiology). 4. Laboratory diagnostics of infectious diseases of animals (ruminants, carnivores, pigs).
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

**Department of Obstetrics, Gynecology and Biotechnology
of Animal Reproduction named after G. V. Zvereva**

<i>The name of the discipline</i>	Canine and Feline Reproductive Medicine
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Ivakhiv M. A., PhD in Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	8
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	70
<i>lectures</i>	0
<i>laboratory (practical) classes</i>	70
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of the academic discipline *Canine and Feline Reproductive Medicine* is to provide students with theoretical knowledge and practical skills regarding the main stages of animal reproduction, considering species-specific characteristics, as well as age and breed-related features.
<i>The task of studying the discipline</i>	The knowledge should be applied in practical situations, with a clear understanding of the subject area and the essence of the profession. This involves conducting research at an appropriate level, making informed decisions, evaluating and ensuring the quality of the work performed, and communicating with non-specialists in the field, including experts from other disciplines. There should be an ability to work in an international context. Professionals must understand and identify the structural and functional characteristics of cells, tissues, organs, their systems, and apparatuses in animal organisms. They should be able to use tools, specialized devices, instruments, laboratory equipment, and other technical means to perform necessary manipulations in their professional activities. Clinical studies should be conducted to formulate conclusions regarding the health status of animals or to establish a diagnosis. The professional should be capable of selecting, packaging, securing, and sending biological material samples for laboratory testing. They must organize, conduct, and analyze laboratory and specialized diagnostic studies, as well as perform obstetric-gynecological and surgical procedures and operations.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Anatomy and Endocrinology 2. Diagnosis and Pathology of Pregnancy in Bitches and Cats 3. Labor in Bitches and Cats 4. Infertility in Dogs and Cats

<i>The maximum number of students who can study at the same time</i>	80
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary Andrology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kava S.Y., PhD in Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	7
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i> lectures</i>	16
<i> laboratory (practical) classes</i>	32

General description of the discipline

<i>The purpose of studying the discipline</i>	<p>The main goal of the course "Veterinary Andrology" is to develop theoretical knowledge and practical skills in andrology and male reproductive biology among students. It aims to prepare specialists who will conduct laboratory studies of male ejaculates in breeding farm laboratories and provide the theoretical foundation for mastering the practical application of comprehensive therapy in andrological diseases.</p>
<i>The task of studying the discipline</i>	<p>Mastering the knowledge from the course "Veterinary Andrology" enables a veterinary specialist to widely apply these skills in their daily work, particularly when examining males in breeding enterprises and treating animals, as well as in disease prevention, stimulation of physiological functions, and enhancing animal productivity.</p> <p>The objectives of studying the discipline include developing the students' ability to:</p> <ul style="list-style-type: none"> - Understand and establish the structural and functional characteristics of cells, tissues, organs, their systems, and apparatuses in animal organisms; - Use tools, specialized devices, instruments, laboratory equipment, and other technical means to perform necessary manipulations during professional activities; - Follow occupational safety, aseptic, and antiseptic rules during professional practice; - Conduct clinical studies to formulate conclusions about the health status of animals or establish a diagnosis;

	<ul style="list-style-type: none"> - Select, package, secure, and send biological material samples for laboratory testing; - Organize, conduct, and analyze laboratory and specialized diagnostic studies; - Plan, organize, and implement treatment measures for animals; - Develop strategies for the safe, sanitary, and appropriate housing of animals.
<i>Brief content of the discipline</i>	<p>The main objectives of veterinary andrology and the practical application needs include advancements in andrology and spermatology. These achievements focus on the structure and species-specific characteristics of male reproductive organs.</p> <p>The physiological foundations of using breeding males for sperm collection are essential, with an emphasis on the impact of external environmental factors, feeding, and zootechnical conditions of animal housing and management to ensure the production of high-quality ejaculates with good fertilizing ability.</p> <p>Species-specific characteristics and differences in the sperm of males (physiological, biological, and biochemical properties) are also important aspects. Methods for conducting andrological dispensary examinations, including the use of ultrasonography, are key in evaluating male reproductive health.</p> <p>Andrological diseases and their species-specific features are crucial to understand, including the causes, occurrence, and prevalence of andrological conditions such as orchitis and epididymitis. Modern diagnostic methods, prevention strategies, and comprehensive therapy for andrological diseases are essential for effective treatment.</p> <p>The classification of breeding male impotence and its diagnosis, including the analysis of ultrasonogram results, is another key focus. Determining sperm quality for diagnosing impotence in bulls is also an important area of study.</p>
<i>The maximum number of students who can study at the same time</i>	70
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary Perinatology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine

<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Katsaraba O.A., PhD in Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	24
<i>lectures</i>	6
<i>laboratory (practical) classes</i>	18
General description of the discipline	
<i>The purpose of studying the discipline</i>	The aim is to provide students with knowledge and skills in the following areas: the physiology and pathology of perinatal development in animals; methods for diagnosing fetal development during the antenatal, natal, and neonatal periods; diagnosing infertility in females; diagnosing and treating obstetric diseases and neonatal pathology; prevention of these conditions; and the ability to independently solve practical issues related to obstetric and gynecological dispensary examinations.
<i>The task of studying the discipline</i>	<p>The study focuses on the morphological and physiological foundations of fetal development during the antenatal, natal, and neonatal periods, the course of pregnancy, labor in females, and the treatment of animals with complications during labor and diseases of newborns.</p> <p>Students will master the diagnostic techniques for antenatal pathologies in animals and develop therapeutic and preventive algorithms for antenatal conditions, tailored to different species of animals.</p> <p>They will also acquire skills in managing normal labor (specific to species), diagnosing and providing assistance during pathological labor, and providing help to newborns in cases of hypoxia. Students will develop a comprehensive therapy program for neonatal hypoxia.</p> <p>Additionally, students will master the techniques for diagnosing postnatal hypotrophy and creating a comprehensive therapy program for newborns, according to species.</p>
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Antenatal, Intranatal, and Postnatal Periods – Their Characteristics: Fertilization, comparative characteristics of oocytes and spermatozoa, antenatal physiology and pathology, embryonic development physiology, stages of fetal development, placentology, structure and function of the placenta. 2. Pathology of Pregnancy: Hypotrophy, hypoxia, infections, morphological anomalies of the fetus, abortions, and prevention. 3. Physiological Features of Newborns.

	4. Pathology of the Antenatal Period. 5. Physiology of the Intranatal Period. 6. Pathology of the Intranatal Period. 7. Neonatal Pathology: Morphological anomalies of newborns, diseases of newborns.
<i>The maximum number of students who can study at the same time</i>	130
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary Mastology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kostyshyn Y.Y., PhD in Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32

General description of the discipline

<i>The purpose of studying the discipline</i>	The goal of the course is to provide students with knowledge and skills in the physiology and pathology of the mammary glands in females of various animal species, with reference to modern methods of therapy and prevention for various mammary gland pathologies. Additionally, the course aims to address the requirements for dairy sector enterprises in Ukraine to meet European Union (EU) standards.
<i>The task of studying the discipline</i>	The course aims to study the structural features of the mammary gland in females of various animal species, as well as the physiology and pathology of the mammary gland. Students will master modern methods of therapy and prevention for animals with various mammary gland pathologies. They will also become familiar with the requirements for dairy sector enterprises in Ukraine to comply with European Union (EU) standards.
<i>Brief content of the discipline</i>	Ontogenesis and species-specific features of the structure of the mammary gland. Physiology of lactation. Functional and morphological disorders of the mammary gland. Methods for diagnosing mammary gland diseases. Methods of therapy for animals with mammary gland diseases. Methods of disease prevention involving the mammary gland.

<i>The maximum number of students who can study at the same time</i>	120
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Reproductology of Zoo Mammals with Fundamentals of Obstetrics, Gynecology, and Andrology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kostyshyn Y.Y., PhD in Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The goal of the course is to provide students with knowledge and skills in the following areas: the physiology and pathology of perinatal development in animals; methods for diagnosing pregnancy and infertility; diagnosis and therapy of obstetric diseases and neonatal pathology in wild mammals; prevention of these conditions; and the ability to independently solve practical issues related to obstetric and gynecological dispensary examinations of wild mammals in captivity.
<i>The task of studying the discipline</i>	The study focuses on the morphological and physiological foundations of fetal development during the antenatal, natal, and neonatal periods, the course of pregnancy, labor in females, and the treatment of animals with complications during the labor process and diseases of newborn mammals.
<i>Brief content of the discipline</i>	The morphological structure and physiological function of the reproductive organs in wild males. The physiological foundations of using sperm from wild males. The physiology and biochemistry of sperm in wild males. Theory and practice of dilution and storage of sperm from wild males. The morphological structure and physiological function of the reproductive organs in wild females. Features of the estrous cycle in wild females. Reproductive technology and artificial insemination of wild cats. Reproductive technology and artificial insemination of bison. The structure of the placenta in moose and roe deer females. The peculiarities of labor in wild animals and their complications. Dispensary examination of zoo animals.

<i>The maximum number of students who can study at the same time</i>	120
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Canine and feline gynecology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Basarab T.P., PhD in Veterinary Sciences, Assistant Professor of the Department
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	26
<i>lectures</i>	6
<i>laboratory (practical) classes</i>	20

General description of the discipline

<i>The purpose of studying the discipline</i>	The goal of the course "Gynecology of Dogs and Cats" is to study the normal and pathological conditions of the reproductive system in dogs and cats, the mammary gland, reproductive organ diseases, the sexual cycle, and animal reproduction.
<i>The task of studying the discipline</i>	To possess knowledge of the structure of the reproductive organs, their systems and apparatuses, and the entire organism as a whole at macro-, micro-, and submicroscopic levels. To understand the function, topography, and be able to determine the species and age-related characteristics of organs, their systems, and apparatuses under normal and pathological conditions. To be familiar with the basic parameters of organ structure and function, as well as the characteristics and purpose of the technical devices used to determine these parameters. To know the rules of safety, personal hygiene, asepsis, and antisepsis.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. The estrous cycle and methods for determining its stages. 2. Pathology and diagnostics of the reproductive system. 3. The mammary gland and infectious diseases.
<i>The maximum number of students who can study at the same time</i>	80
<i>Language of teaching</i>	Ukrainian / English

Department of internal animal diseases and clinical diagnostics

<i>The name of the discipline</i>	Clinical Veterinary Laboratory Diagnostics
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Mykola Lychuk, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	11
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	test
<i>Auditory hours, incl.</i>	36
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	24
General description of the discipline	
<i>The purpose of studying the discipline</i>	<p>The main purpose of the discipline is the formation of laboratory research skills in clinical practice in higher education students; the study of morphological, physical, and biochemical parameters of blood; physicochemical and microscopic properties of urine and other biological fluids; interpretation of their changes due to pathological conditions in the animals` body.</p> <p>The educational discipline "Clinical Veterinary Laboratory Diagnostics" provides:</p> <ul style="list-style-type: none"> - assimilation by students of algorithms and principles of modern methods of laboratory research as a component of the diagnostic process; - training of stable skills to effectively use laboratory data in a variety of pathological conditions; - the ability to correctly interpret the results of laboratory tests in order to use the acquired knowledge in the study of the following clinical disciplines and future professional activity.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - formation of a systematic approach to the use of laboratory diagnostic capabilities in a complex of diagnostic and therapeutic procedures; - determination of diagnostic capabilities of a modern laboratory; - formation of skills in creating a comprehensive laboratory examination, determining indications and contraindications; - familiarization with the laboratory research stages; - substantiation of the importance of the preanalytical stage; - study of the composition, morphological, physical and biochemical properties of biological fluids of the animal body in norm and pathology; - learning to perform basic laboratory methods; - formation of skills in interpreting results and evaluating false data;

	<ul style="list-style-type: none"> - formation of laboratory tests standardization understanding - substantiation of the importance of studying laboratory diagnostics for other disciplines - analysis and provision of clinical and diagnostic assessment of the animals` body state based on the results of biological fluids clinical laboratory studies, which will allow to judge the favorable or unfavorable course of the pathological process in the animal's body; - development of clinical thinking, creative approach in solving practical issues on the elimination and prevention of animal diseases; - acquisition of communication skills, both in written and oral form, with clients, colleagues and support staff.
<i>Brief content of the discipline</i>	<p>Introduction. The essence and tasks of discipline. Organization of work in the clinical diagnostic veterinary laboratory. Objects and stages of laboratory research.</p> <p>Clinical and laboratory diagnostics of diseases of the blood system, kidneys, and urinary tract. Methods for studying indicators of general blood analysis, use of hematology analyzers for blood tests</p> <p>Methods of biochemical blood test, use of biochemical analyzers in clinical diagnostic laboratory. Clinical and laboratory diagnostics for pathologies of cardiovascular, respiratory, and nervous systems in animals.</p> <p>Clinical and laboratory diagnostics of diseases of the digestive system and liver in animals.</p> <p>Clinical and laboratory diagnostics of metabolic pathology in animals.</p> <p>Clinical and laboratory diagnostics of endocrinopathies in animals.</p>
<i>The maximum number of students who can study at the same time</i>	140
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Visual diagnostics in veterinary medicine
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Maksymovych I.A. d.vet.s., docent
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	30
<i>lectures</i>	10
<i>laboratory (practical) classes</i>	20

General description of the discipline	
<i>The purpose of studying the discipline</i>	Study of visual methods of diagnosis, which are used in the research of animals for the purpose of making a diagnosis or ruling out a disease. At the same time, the following research methods will be used: ultrasound, echocardiography, electrocardiography, X-ray diagnostics, endoscopy.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> – study of the method of ultrasound examination for the diagnosis of diseases of internal organs and analysis of the obtained research results; – learn how to use echocardiography to diagnose diseases of the heart and blood vessels in animals; – - learn how to use electrocardiography to diagnose cardiac arrhythmias in animals; – studying the basics and methods of x-ray examination in animals; – - learn how to use endoscopy to visualize and diagnose diseases of the gastrointestinal tract, respiratory and urinary tracts.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Ultrasound examination and analysis of the obtained research results for the purpose of diagnosing diseases of internal organs. 2. Echocardiography in the diagnosis of diseases of the myocardium, valve apparatus of the heart and blood vessels in animals. 3. Techniques of electrocardiography for the diagnosis of cardiac pathologies in animals. 4. X-ray examination methods for diagnosing diseases of bones and joints, skull and spine, heart and lungs, abdominal and pelvic organs, contrast examination. 5. Endoscopic examination for the purpose of diagnosis of diseases of respiratory organs, anterior and posterior parts of the digestive and urinary systems.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Dermatology and endocrinology of dogs and cats
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Slivinska L.G., Doctor of Veterinary Sciences, Professor Fedorovich V.L. Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	8
<i>Number of ECTS credits</i>	4

<i>Form of control</i>	test
<i>Auditory hours, incl.</i>	36
<i>lectures</i>	12
<i>laboratory (practical) classes</i>	24
General description of the discipline	
<i>The purpose of studying the discipline</i>	to teach higher education students to recognize and clearly define the etiology, pathogenesis, symptoms of skin and endocrine diseases in dogs and cats; methods for diagnosing these diseases and applying effective preventive and therapeutic measures.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - study the main causes of skin diseases and endocrine organs of dogs and cats and factors contributing to their occurrence; - study the pathogenesis of skin diseases and endocrine organs of small animals; - based on the data of the anamnesis, the results of clinical, laboratory and other special methods of examination of sick dogs and cats, be able to diagnose the disease; - teach students to correctly determine the complex of therapeutic measures and justify their pharmacodynamics for a specific disease, correctly administer drugs, monitor the recovery process or timely identify new complications; - teach students to develop and implement in practice a complex of general preventive measures in order to prevent the occurrence of internal diseases of dogs and cats, and in case of their occurrence - their further spread.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Anatomical and physiological features of the endocrine glands of dogs and cats. Diseases of the endocrine organs. Causes and mechanism of their development, diagnostic methods. Diabetes insipidus, X-alopecia. 2. Diseases of the thyroid and parathyroid glands. Hyperthyroidism of cats, hypothyroidism of dogs. Hyperparathyroidism of dogs and cats. Diagnosis and treatment. 3. Diseases of the endocrine part of the pancreas: diabetes mellitus, diabetic ketoacidosis and hyperosmolar non-ketone diabetic coma. Diagnosis and treatment. 4. Diseases of the adrenal glands: Cushing's disease and syndrome, Addison's syndrome. Diagnosis and treatment. 5. Anatomical and physiological features of the skin of small domestic animals. Itching. Algorithm for identifying the causes of itching. Seborrhea. Diagnosis. 6. Bacterial skin diseases. Pyoderma. Classification. Diagnosis and treatment. Pododermatitis. Diagnosis and treatment. Skin lesions by fungi of the

	genus <i>Malassezia</i> . Diagnosis and treatment. 7. Allergic skin diseases. Atopic dermatitis. Diagnosis and treatment. Allergy to feed components. Diagnosis. Prevention. 8. Autoimmune skin diseases. Pemphigoid complex. Diagnosis and treatment. Alimentary skin diseases. Diagnosis and treatment.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Professional ethics, deontology and history of veterinary medicine
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Prysyazhnyuk V.Ya., Candidate of Veterinary Sciences, Associate Professor; Chernushkin B.O., Candidate of Veterinary Sciences, Associate Professor; Zinko H.O. Candidate of Veterinary Sciences, Associate Professor;
<i>Recommended Semester(s)</i>	5
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	test
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Knowledge about the emergence, development and formation of veterinary medicine, its role in society and achievements in the prevention and elimination of infectious, invasive and non-communicable diseases, the creation of healthy herds of domestic animals and poultry farms, as well as the protection of the population from infectious diseases common to humans and animals. Study of a certain order of service relations, the lawful behavior of a specialist, the culture of professional actions, regulated by social norms, universal human values, and current legislation formed in society.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • enrich the worldview of the future veterinary doctor with the history of his specialty; • show its successes in connection with the achievements of other sciences, technology and economics. • increase the professional culture of the veterinary doctor; • reduce the adaptation period of young specialists

	<p>in production;</p> <ul style="list-style-type: none"> • help them avoid many professional mistakes and behavioral errors; • includes a set of rules and norms of the attitude of veterinary specialists to their colleagues, animals and their owners; • teaches to be sensitive, attentive and caring towards animals and their owners. • ability to analyze research results and formulate conclusions
<p><i>Brief content of the discipline</i></p>	<p>Section - 1: Introduction to the discipline, its tasks in the training of specialists in veterinary medicine, connection with other disciplines.</p> <ol style="list-style-type: none"> 1. History of veterinary medicine in ancient times: from ancient times to the fall of the Western Roman Empire (476 AD). Veterinary medicine of Kievan Rus. Workshops - educational institutions for the training of specialists in the medical field (blacksmiths, barbers), their structure, principles of teaching and attributes. 2. History of veterinary medicine in the Middle Ages: from the fall of the Western Roman Empire (476 AD) to the Renaissance (1500). Veterinary medicine on the territory of the Galician-Volyn principality, schools for the training of medical specialists (Ostrozh, Zamoyski academies). The first universities among the Slavic peoples. 3. History of veterinary medicine in modern times: from 1500. Until the present time (Veterinary science in Western Europe and Ukraine, achievements of natural science and their influence on the development of veterinary medicine.). 4. The formation and development of veterinary medicine in Ukraine in the 18th–21st centuries, the organization of the veterinary service, the first veterinary-bacteriological laboratories, quarantine and veterinary-sanitary control, zemstvo veterinary medicine. 5. Higher educational institutions of Ukraine for training veterinary specialists, brief history, faculty structure, outstanding scientists. History of the formation and development of the SGNUVMBL. <p>Section – 2. Definition of the subject, the concept of professional ethics</p> <ol style="list-style-type: none"> 6. Types of professional ethics. Professional ethics and norms of business relations. Normative ethics and the main criteria of moral assessment. Veterinary medicine – term and concept. Areas of use of a veterinary medicine specialist. General requirements for a specialist. 7. Veterinary medicine specialist in the work team. Definition, formation and classification of the team. Teamwork and collective decision-making. 8. Collegiality in the work of a veterinary doctor.

	<p>Ethical relations in the team. Psychological climate in the team. Factors influencing socio-economic and industrial conflicts.</p> <p>Ways to resolve the conflict</p> <p>9. A veterinary doctor is a team leader. Formal and informal leadership. The authority of the manager and mechanisms of influence on subordinates.</p> <p>Section 3: Veterinary deontology.</p> <p>10. The doctor's attitude to his professional duties. Objective and subjective causes of medical errors. Criminal and non-criminal errors. Professional crimes.</p> <p>11. The relationship between a veterinary doctor and the owner of the animal (client). Trusting contact between the doctor and the owner of the animal - as a consequence of the doctor's individual psychological approach.</p> <p>12. Deontological requirements when working with a client of a veterinary clinic. Code of attitude towards the client. Criteria for assessing work with the client.</p> <p>13. Fundamentals of the doctrine of humane treatment of animals in various fields of use. Concepts and criteria for assessing the interest, needs, comfort and welfare of animals.</p> <p>14. Comparative analysis of legislation on humane treatment of animals in Ukraine and other countries of the world. Assessment of the problem of humane treatment of animals in various fields of use</p>
<i>The maximum number of students who can study at the same time</i>	225
<i>Language of teaching</i>	Ukrainian / English

Department of Parasitology and Ichthyopathology

<i>The name of the discipline</i>	Parasitic diseases of aquarium and pond fish
<i>Specialty</i>	H6 «Veterinary Medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Tafiychuk Roman Ivanovych, Candidate of Veterinary Sciences, Associate Professor Fedorovych Oleksandr Vasylovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	In the process of studying the discipline "Parasitic Diseases of Aquarium and Pond Fish", students acquire skills in conducting modern laboratory parasitological studies and diagnosing parasitic infestations of fish, manufacturing the necessary forms of medicines for treating fish, as well as treating sick fish and mastering the skills of organizing preventive anti-parasitic measures. The discipline "Parasitic Diseases of Aquarium and Pond Fish" will provide a veterinary doctor with theoretical and practical knowledge, skills, and abilities on various issues related to parasitic diseases of fish.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> – obtaining systematized knowledge, forming in the student an understanding of the basic principles of parasitology, the relationship between hosts and pathogens of parasitic diseases of fish, the features of the course of parasitosis in fish farms of various types and in the ecosystem of a closed artificial reservoir; – conducting research and their analysis - interpreting the results of clinical and laboratory studies in order to formulate conclusions and establish a diagnosis; – ensuring the development of skills, obtaining skills in diagnosing parasitic invasions of fish, carrying out therapeutic and preventive measures, resolving organizational issues regarding invasive diseases in fish farms and in the ecosystem of a closed artificial reservoir; – mastering methods of planning and conducting scientifically based measures to combat parasitic invasions of fish, taking into account specific natural and economic conditions. <p>The student must:</p> <ul style="list-style-type: none"> ▶ know: classification of fish parasites and parasitic diseases; features of their manifestation; etiology and

	<p>development cycle of parasites; pathogenesis and clinical signs; basics of diagnostics of parasitic diseases of fish; methods of prevention; measures of control and treatment; features of application of modern therapeutic and preventive measures.</p> <p>► be able to: recognize parasitic infestations of fish; perform laboratory tests and diagnose parasitic infestations; distinguish on preparations representatives of protozoa, helminths, annelids and crustaceans; conduct differential diagnostics; prescribe effective treatment; use methods of laboratory research to increase the effectiveness of prevention of parasitic diseases in the ecosystem of a closed artificial reservoir; organize preventive measures in fish farms.</p>
<i>Brief content of the discipline</i>	<p>Section 1. Protozoa, monogenea, trematode infections of fish. Definition and content of veterinary hydroparasitology. Diseases caused by ciliates, sporozoites, monogeneans and trematodes.</p> <p>Section 2. Cestodes, nematodes, acanthocephalosis, bdelloidosis, crustaceans and molluscs of fish. Diseases caused by cestodes, nematodes, acanthocephala, annelids, crustaceans and molluscs. Laboratory diagnostics of parasitic infestations of fish.</p>
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Fish diseases with aquaculture basics
<i>Specialty</i>	H6 «Veterinary Medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Tafiychuk Roman Ivanovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	6
<i>Number of ECTS credits</i>	3.0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	90
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the discipline is for students to acquire theoretical and practical knowledge in ichthyopathology and biotechnology of fish reproduction.
<i>The task of studying the discipline</i>	In the process of studying, students should learn to diagnose the main diseases of fish of infectious and non-infectious etiology, carry out therapeutic and preventive measures, be able to conduct a diagnostic autopsy of fish, provide recommendations to the farm, as well as determine the age, sex,

	physiological condition of the fish. Calculate the amount of stocked fish planting material, the yield of fish from different categories of ponds. Determine the required amount of feed for all age categories. Make fish management plans for the year, month, week.
<i>Brief content of the discipline</i>	Section 1. General concepts of aquaculture. Biology of pond fish. Ecological groups of fish Morphology and physiology of the main objects of freshwater aquaculture. Hydrochemical regime of ponds. Hydrochemical indicators in the norm and their violations. Hydrobiological indicators. Calculations of plankton and benthos biomass warm-water and cold-water pond farms. Integrated intensification in pond fish farming. Technology of growing fish seedlings in warm-water pond fish farms. Technology of conducting cold-water fish farming
	Section 2. Special ichthyopathology Infectious diseases of fish Viral, bacterial, fungal diseases. Spring viremia of carp, inflammation of the swim bladder, carp pox, fish aeromonosis, saprolegniosis, branchiomycosis their diagnosis, treatment, prevention
	Section 3. Invasive diseases of fish Protozoal diseases (myxosomiasis of trout, coccidial enteritis of carp, ichthyobodosis). Diseases caused by ciliated infusoria (ichthyophthiriosis, trichodiniosis, chilodonellosis), their diagnosis, treatment and prevention. Helminthiasis of fish (monogeneoses, trematodoses, cestodes, nematodoses). Dactylogirosis and gyrodactylosis of fish, diplostomosis, postdiplostomosis, sanguincolosis, caviosis, karyophilosis, ligulosis-tadygramosis, botryocephalosis. Phylometroidosis of fish, anisacidososis of commercial fish. Section 4. Non-infectious pathology of fish. Treatment and preventive measures in aquaculture. Hypo- and avitaminosis, toxicosis, neoplasia, diseases of unknown etiology. Fish autopsy. Sanitary and epizootic examination of water bodies. General veterinary and sanitary measures
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Global parasitology
<i>Specialty</i>	H6 «Veterinary Medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Sobolta Andriy Grigorovich, Candidate of Veterinary Sciences, Associate Professor

<i>Recommended Semester(s)</i>	9-10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	42
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	28
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the academic discipline is an in-depth and thorough study of invasive animal diseases, acquiring skills in diagnostics, treatment and prevention, as well as preparing them for independent scientific and practical work. In the process of studying, students must master theoretical and practical knowledge of general issues of parasitology, the main invasive diseases of various species of animals (cattle and sheep, horses, pigs, rabbits, dogs, cats, birds), which are registered or may be imported into Ukraine. Special attention is paid to the morphology and biology of parasitic organisms, epizootology, features of immunity, pathogenesis, symptoms, pathoanatomical changes, diagnostics, means of therapy and prevention of diseases caused by them.
<i>The task of studying the discipline</i>	The main objectives of studying the academic discipline are: <ul style="list-style-type: none"> – conducting research and their analysis-interpretation of the results of clinical and laboratory studies in order to formulate conclusions and establish a diagnosis; – performing diagnostics of invasive diseases of farm animals and birds; – learning to organize and conduct clinical, laboratory and special diagnostic studies taking into account safety rules, asepsis, antiseptics; – implementing therapeutic measures; – gaining skills in diagnosing invasive animal diseases, conducting therapeutic and preventive measures for these diseases; – the ability to choose and implement modern methods of preventive and health-improving measures for safe, sanitary-conditioned animal keeping.
<i>Brief content of the discipline</i>	Section-1: Invasive diseases of birds and mammals Section-2: Invasive diseases of carnivores Section-3: Invasive diseases of pigs Section-4: Invasive diseases of ruminants Section-5: Invasive diseases of equidae
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Clinical parasitology of dogs and cats
<i>Specialty</i>	H6 «Veterinary Medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Yuskiv Igor Dmytrovych, Doctor of Veterinary Sciences, Professor Pryima Oksana Bogdanivna, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	9
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	42
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	28
General description of the discipline	
<i>The purpose of studying the discipline</i>	Studying the discipline "Clinical Parasitology of Dogs and Cats" provides the student with a set of theoretical knowledge and practical skills on various issues related to parasitic invasions of dogs and cats that can be observed and diagnosed in the European region, on the methodology of data analysis of clinical and laboratory studies, recognition, treatment and prevention of parasitosis, as well as the associated zoonotic risks of these diseases and preparing the student for independent practical work. The logic and structure of the course will allow students to master the necessary amount of knowledge, which makes it possible to achieve a high level of professional competence of future specialists.
<i>The task of studying the discipline</i>	As a result of studying the academic discipline, a higher education applicant must acquire skills in modern methods of diagnosis, treatment and prevention of parasitic infestations of dogs and cats, as well as solving organizational issues; establish a connection between the clinical manifestations of parasitic infestations of dogs and cats and the results of laboratory tests; monitor the causes of the spread of parasitic infestations of various etiologies and biological pollution of the environment, as well as solve problem situations of professional origin.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Helminthiasis of dogs and cats (Ascariasis, Strongyloidiasis of the digestive tract and respiratory tract, Trichuriasis, Filariasis, Spirulinosis, Trematodiasis, Imaginal cestodes). 2. Protozoa and certain prokaryotes of dogs and cats (Coccidiosis, Piroplasmidosis and prokaryotes, Mastigophorosis and ciliatosis). 3. Acariasis and entomoses of dogs and cats (Sarcoptiform mites, trombidiform mites, wingless insects - temporary ectoparasites).

<i>The maximum number of students who can study at the same time</i>	120
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Parasitic diseases of poultry
<i>Specialty</i>	H6 «Veterinary Medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Sobolta Andriy Grigorovich, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	9
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	42
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	28

General description of the discipline

<i>The purpose of studying the discipline</i>	The aim of studying the discipline is to acquire theoretical and practical knowledge of general issues of parasitology regarding the main invasive diseases of poultry that are registered or may be imported into Ukraine, and to obtain practical skills in carrying out antiparasitic measures in farms. Special attention is paid to the morphology and biology of helminths, arthropods and protozoa, features of epizootology, pathogenesis, pathological and anatomical changes, diagnostics, therapy and preventive measures.
<i>The task of studying the discipline</i>	The task of the study is to obtain systematized knowledge, to form in the student an understanding of the basic provisions of parasitology, the relationship between hosts and pathogens of invasive poultry diseases, the features of the course of invasive diseases in farms of various types; to ensure the development of skills, acquiring skills in diagnosing invasive poultry diseases, conducting treatment and preventive measures, resolving organizational issues that arise in farms that are unfavorable for invasive poultry diseases; to master the methods of planning and conducting scientifically based measures to combat invasive poultry diseases on farms, complexes in the private sector, taking into account specific natural and economic conditions.
<i>Brief content of the discipline</i>	1. Main helminthiasis of poultry 2. Acarosis and entomoiasis of poultry 3. Protozoa of poultry
<i>The maximum number of students who can study at the same time</i>	120
<i>Language of teaching</i>	Ukrainian / English

Department of Microbiology and Virology

<i>The name of the discipline</i>	Clinical Microbiology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Semaniuk Volodymyr Ivanovych, Candidate of Biological Sciences, Associate Professor Pelenyo Ruslan Andreevich, Doctor of Veterinary Sciences, Professor
<i>Recommended Semester(s)</i>	9
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Study of microorganisms that complicate diseases of animals with non-infectious pathology, their identification, analysis of pathogenesis mechanisms, optimization of antimicrobial therapy and infection control and prevention measures in clinical practice.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - Identification and characterization of microorganisms that complicate disease in animals with non-infectious pathology; - mastering methods for diagnosing diseases complicated by microorganisms in animals with non-infectious pathology; - study of the mechanisms of pathogenesis of diseases complicated by microorganisms in animals with non-infectious pathology; - evaluation and interpretation of the results of microbiological studies. - prescribing and optimizing antimicrobial therapy; - application of knowledge for the control and prevention of infections in animal treatment facilities.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Clinical microbiology and clinical diagnostic laboratory. Methods of indication and identification of microorganisms in non-infectious pathology. 2. Etiology of diseases of non-infectious pathology caused by microorganisms. 3. Current state and prospects for the development of antimicrobial chemotherapy. Antibiotic resistance and methods for determining the sensitivity of microorganisms to antibiotics. 4. Microbiological diagnosis of infections of the oral cavity and gastrointestinal tract. 5. Microbiological diagnosis of infections of the

	respiratory system, eyes and ears. 6. Microbiological diagnostics of infections of the circulatory system, skin and its derivatives. 7. Microbiological diagnosis of infections of the genitourinary system and breast.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Laboratory diagnostics of bacterial and viral diseases
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kulyaba Orest Volodymyrovych, Candidate of Veterinary Sciences, Associate Professor Turko Yaromir Ihorovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	9
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Knowledge of etiology, pathogenesis and methods of laboratory diagnosis of infectious diseases of animals of bacterial and viral etiology.
<i>The task of studying the discipline</i>	- Study of the etiology and pathogenesis of bacterial and viral diseases of animals common in Ukraine; - study of methods of laboratory diagnostics of bacterial and viral diseases of animals.
<i>Brief content of the discipline</i>	1. Etiology, pathogenesis and laboratory diagnosis of bacterial and viral diseases of cattle and small cattle. 2. Etiology, pathogenesis and laboratory diagnostics of bacterial and viral diseases of pigs. 3. Etiology, pathogenesis and laboratory diagnostics of bacterial and viral diseases of horses. 4. Etiology, pathogenesis and laboratory diagnostics of bacterial and viral diseases of dogs and cats. 5. Etiology, pathogenesis and laboratory diagnostics of bacterial and viral diseases of poultry.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Opportunistic and nosocomial infections
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Semaniuk Volodymyr Ivanovych, Candidate of Biological Sciences, Associate Professor Semaniuk Nazariy Volodymyrovych, Candidate of Veterinary Sciences, Associate Professor
<i>Recommended Semester(s)</i>	9
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Indication and identification of pathogens that complicate the course of diseases or can themselves be the cause of opportunistic and nosocomial infections, establishing their number and determining the antimicrobial drugs to which they are sensitive.
<i>The task of studying the discipline</i>	- Study of the peculiarities of selection, packaging, fixation and sending of samples of biological material for laboratory research in case of suspicion of opportunistic and nosocomial infections; - study of the features of the analysis of laboratory diagnostic studies of samples of selected materials; - ability to plan, organize and implement measures for the treatment of animals sick with non-communicable, infectious and invasive diseases, taking into account the isolation of microbes and their sensitivity to antibiotics.
<i>Brief content of the discipline</i>	1. Opportunistic and nosocomial infections of animals. The etiological role of microorganisms in the development of opportunistic and nosocomial infections. 2. Pathogenesis and immunogenesis in opportunistic and nosocomial infections of various etiologies. 3. Opportunistic and nosocomial infections in agricultural, domestic, wild and zoo animals. 4. Methods of diagnosis, control and prevention of opportunistic and nosocomial infections of animals.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Mycology
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<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Semaniuk Nazariy Volodymyrovych, Candidate of Veterinary Sciences, Associate Professor Semaniuk Volodymyr Ivanovych, Candidate of Biological Sciences, Associate Professor
<i>Recommended Semester(s)</i>	3
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Formation of systematic knowledge of the structure, physiology, taxonomy, ecology of fungi, their role in nature and animal life and the development of methods for detecting pathogens of fungal diseases.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • To acquaint students with the variety of mushrooms. • To study the structure of the vegetative body and reproductive organs of pathogenic and saprophytic fungi. • To consider the physiological processes occurring in fungal cells and the mechanisms of pathogenicity of fungi and the development of fungal diseases. • To study the taxonomy of fungi and methods for detecting pathogens of mycoses. • To acquaint students with the role of mushrooms in nature and human economic activity. • Learn the principles of prevention and treatment of fungal diseases of animals. • To form students' skills in working with mycological material.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Introduction to mycology. Brief historical overview. Variety of fungi: from micromycetes, yeasts to macromycetes. 2. Taxonomy of fungi and actinomycetes: features of structure, physiology and taxonomies. 3. Morphology and physiology of fungi. 4. Mushrooms in nutrition and medicine. 5. Mushrooms in the life of animals. 6. Fungi and biogeocenoses. 7. Mushroom cultivation as a promising business.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Sanitary microbiology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Semaniuk Nazariy Volodymyrovych, Candidate of Veterinary Sciences, Associate Professor Semaniuk Volodymyr Ivanovych, Candidate of Biological Sciences, Associate Professor
<i>Recommended Semester(s)</i>	3
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Study of environmental microflora, development of measures for the prevention of infectious diseases and ensuring food safety.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • Study of environmental microflora (soil, water, air) and food. • Detection and identification of sanitary and pathogenic microorganisms. • Development of methods for controlling microbial contamination. • Assessment of the sanitary and hygienic condition of environmental objects. • Development of measures for the prevention of foodborne bacterial poisoning. • Formation of students' skills in working with sanitary and pathogenic microorganisms.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Subject, tasks, principles and methods of sanitary and microbiological studies of biological material. 2. Sanitary microorganisms and their ecology. 3. Pathogens of foodborne bacterial poisoning. 4. Microflora of the environment and processes that arise as a result of its vital activity. 5. Microflora of humans and animals and its role in microbial contamination of environmental objects. 6. Fundamentals of sanitary microbiology of food products. 7. Basics of sanitary and microbiological control in production.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

Department of Surgery

<i>The name of the discipline</i>	Veterinary anesthesiology, resuscitation and intensive therapy
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Mysak A.R. Doctor of Veterinary Medicine, Prof. Pritsak V.V. Candidate of Veterinary Sciences, Docent Lenyo Y.M. Candidate of Veterinary Sciences, Docent
<i>Recommended Semester(s)</i>	10
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i> <i>lectures</i> <i>laboratory (practical) classes</i>	48 16 32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Acquire theoretical knowledge in the field of veterinary anesthesiology, resuscitation and intensive care; mastering the basic methods of general and regional anesthesia, the principles of their use in different physiological and pathological conditions of the patient; ability to provide emergency care for terminal and emergency conditions that occur in veterinary practice.
<i>The task of studying the discipline</i>	Study of instrumental, hardware and pharmacological support for general or regional anesthesia, depending on the indications. Study of the features of the interpretation of the main clinical and laboratory indicators of violations of homeostasis of a living organism in various physiological and pathological conditions of the patient and their role in the planning of anesthetic support. Study of the main methods of diagnosing violations of vital body functions in critical conditions (injuries, poisoning, complications of somatic pathology) and providing emergency care.
<i>Brief content of the discipline</i>	Anesthesia support for operations on animals of various species (study of the theory and practice of artificial pain relief using general or local anesthesia, as well as methods of controlling body functions before, during, and after surgical interventions). Study of mechanisms of extinction, methods of control, artificial replacement and restoration of vital (vital) functions of the organism that arise under conditions of aggression of a pathological condition that exceeds the possibilities of

	autoregulation (resuscitation). Also, intensive therapy - carrying out a complex of medical measures aimed at eliminating or preventing violations of the organism's vital functions in critical conditions that arise during injuries, surgical interventions, complications of somatic pathology and providing emergency care.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary oncology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Mysak A.R. Doctor of Veterinary Medicine, Prof. Pritsak V.V. Candidate of Veterinary Sciences, Docent
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	40
<i> lectures</i>	20
<i> laboratory (practical) classes</i>	20
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of teaching the discipline is to provide in-depth study of the etiology, pathogenesis, methods of diagnosis, prevention and treatment of oncological diseases of agricultural and small domestic animals, as well as to develop in higher education students special scientific knowledge and practical skills for independent professional and research activities in the field of veterinary oncology.
<i>The task of studying the discipline</i>	The main objectives of the academic discipline are to enable higher education students to master the basic concepts of fundamental and clinical oncology; theories of carcinogenesis; biology of tumor growth, features of the occurrence of spontaneous neoplasias and the frequency of their spread in animals of various species, as well as the patterns of the development of oncological diseases; mastering the theoretical foundations and technical skills of diagnostic studies, establishing a diagnosis and conducting complex treatment measures, including surgical operations on animals with neoplasias, the use of chemotherapy, biotherapy, targeted therapy, etc.
<i>Brief content of the discipline</i>	Veterinary oncology is a clinical discipline that studies the distribution, patterns of occurrence and

	growth of benign and malignant tumors depending on the cause and conditions of their occurrence, as well as the species of animals; diagnostic methods and treatment strategies for animals using examples of individual types of tumors.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary ophthalmology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Mysak A.R. Doctor of Veterinary Medicine, Prof. Pritsak V.V. Candidate of Veterinary Sciences, Docent
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	40
<i>lectures</i>	20
<i>laboratory (practical) classes</i>	20
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the discipline is to acquire theoretical knowledge in the field of veterinary ophthalmology; master the basic functional methods of studying the visual apparatus, the principles of using modern diagnostic ophthalmological equipment; the ability to provide emergency care for pathological conditions in ophthalmology that occur in veterinary practice; acquire skills in performing surgical interventions on the eyeball and protective devices of the visual apparatus, practice treatment protocols and basic manipulative techniques used in the treatment of the organ of vision in animals.
<i>The task of studying the discipline</i>	Based on knowledge of the anatomy and physiology of the organ of vision and modern methods of its research, as well as recognition of the most important symptoms of diseases, the student must be able to interpret the mechanisms of development of pathological processes of the organ of vision, determine the etiological and pathogenetic factors of the development of major diseases, make a preliminary diagnosis of the most common eye diseases and injuries; determine the tactics of treatment of animals with eye diseases; diagnose emergency conditions in ophthalmology and provide emergency care; plan preventive measures to prevent

	eye diseases or the development of blindness.
<i>Brief content of the discipline</i>	"Veterinary ophthalmology" is a clinical discipline that studies the anatomy and physiology of the organ of vision and its protective devices, methods of studying the organ of vision and its appendages, etiology, pathogenesis, diagnostics and treatment of the most common ophthalmological diseases of animals.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Traumatology and orthopedics of small pets
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Pritsak V.V. Candidate of Veterinary Sciences, Docent Markevich O.M. Assistant, Nazaruk N.V. Candidate of Veterinary Sciences, Docent
<i>Recommended Semester(s)</i>	10
<i>Number of ECTS credits</i>	3,5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	54
<i>lectures</i>	18
<i>laboratory (practical) classes</i>	36
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of teaching the discipline is to provide in-depth study of the etiology, pathogenesis, methods of diagnosis, treatment and prevention of orthopedic diseases of small domestic animals, as well as to develop in higher education students special scientific knowledge and practical skills for independent professional and research activities in the field of veterinary traumatology and orthopedics.
<i>The task of studying the discipline</i>	The main objectives of the academic discipline are to enable students to master the theoretical foundations and practical skills of diagnostic studies, diagnosis and complex orthopedic interventions (osteosynthesis with a metal loop, screws and bolts; intramedullary osteosynthesis, extracortical osteosynthesis with metal plates, as well as external osteosynthesis according to the method of G.A. Ilizarov and A.N. Kostyuk).
<i>Brief content of the discipline</i>	Monitoring and features of the occurrence of orthopedic pathology in small domestic animals of different ages. Pathogenetic aspects and possible complications in orthopedic pathology. Anatomical and topographic features of bone and

	joint pathology in small domestic animals of different ages. Morpho-functional features of bone tissue in small domestic animals. Molecular and biochemical mechanisms of reparative osteogenesis. Methods and means of treating bone fractures. Features of the use of composite osteotropic materials. The role of the hemostasis system in the processes of bone regeneration.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary dentistry
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Khomyn N.M. Doctor of Veterinary Medicine, Prof. Pritsak V.V. Candidate of Veterinary Sciences, Docent Nazaruk N.V. Candidate of Veterinary Sciences, Docent
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	4,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	40
<i>lectures</i>	20
<i>laboratory (practical) classes</i>	20
General description of the discipline	
<i>The purpose of studying the discipline</i>	Familiarization of students with the most common dental diseases of small domestic animals, the causes of the diseases, the peculiarities of their course, symptoms, as well as to teach students diagnostic methods and master the means of prevention and new modern methods of treating animals with dental diseases.
<i>The task of studying the discipline</i>	Based on knowledge of anatomy, histology, operative surgery, pathological physiology, clinical diagnostics, pharmacology, and general and special surgery, the student must be able to conduct an examination of dentally ill animals using basic and auxiliary research methods, establish a diagnosis based on characteristic clinical signs, conduct differential diagnostics of basic dental diseases, determine the tactics of treatment of animals with dental diseases; in addition, develop preventive measures for dental diseases.
<i>Brief content of the discipline</i>	Veterinary dentistry is a clinical discipline that studies the causes of occurrence, features of the

	course, clinical signs, diagnostic methods and means of prevention of dental diseases, as well as methods of treatment of dentally ill anim
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

**Department of Hygiene, Sanitation and
General Veterinary Prevention named after M. V. Demchuk**

<i>The name of the discipline</i>	Fundamentals of Intellectual Property
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Bogdan Gutyj, doctor of veterinary sciences, professor
<i>Recommended Semester(s)</i>	9-10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Students' assimilation of basic knowledge, basic concepts and categories of intellectual property law, applying acquired theoretical knowledge in practical work, as well as analyzing and correctly solving problem situations that arise in real life. Acquaintance of students with modern methods of scientific research, with the basic rules of conducting and analyzing the results of scientific research. Creation of intellectual property objects.
<i>The task of studying the discipline</i>	To give an idea about intellectual property, science and methods of scientific research, about the general rules of conducting scientific research; to form in students a complex synergistic approach to the study of processes and phenomena in natural and anthropogenic ecosystems. To form the skills of conducting scientific research, in particular, the skills of searching for information and working with scientific primary sources, the skills of setting up a scientific experiment, documenting and statistical processing of primary data, scientific interpretation of the obtained results of scientific research.
<i>Brief content of the discipline</i>	1. Legislation on intellectual property 2. Copyright. 3. Patent law of Ukraine 4. Planning and organization of research works and their management 5. System of scientific research work of students
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Scientific research methodology
<i>Specialty</i>	H6 «Veterinary medicine»

<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Bogdan Gutyj, doctor of veterinary sciences, professor
<i>Recommended Semester(s)</i>	10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Students' assimilation of basic knowledge, methods and organization of scientific research activities, basic rules for conducting and analyzing the results of scientific research.
<i>The task of studying the discipline</i>	Acquisition of theoretical knowledge and practical skills for the purpose of professional activity, namely: - mastering the skills of planning, organizing, conducting scientific, scientific-economic and production experiments; - acquirers of knowledge and skills regarding analysis, interpretation, processing of research materials; - mastering the skills of working with literary sources, preparation of publication materials, presentation of work results.
<i>Brief content of the discipline</i>	The essence of science and scientific research. Information provision of scientific research. The concept of scientific information and its role in conducting scientific research. Sources of information and their use in research work. The process of scientific research activity. Technology of scientific activity. Reporting on scientific research.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Animal health protection
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Halyna Klym, Ph.D., associate professor
<i>Recommended Semester(s)</i>	10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	28

<i>lectures</i>	14
<i>laboratory (practical) classes</i>	14
General description of the discipline	
<i>The purpose of studying the discipline</i>	Animal health protection studies the impact of environmental factors on the body and health of animals, as well as the scientific and practical substantiation of microclimate parameters, regulations and rational methods of keeping, feeding and operating various types of farm animals.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> - to know the plan and methods of hygienic and laboratory research of animal keeping conditions; the sequence and methodology of the study of individual environmental factors that affect the physiological state of animals, their productive and reproductive capacity. - be able to, on the basis of knowledge of hygienic standards and requirements for external environmental factors (air, soil, feed, water), technology of animal exploitation, using the methods and methods of hygienic research, conduct an assessment of their application in the economy of technologies and systems of maintenance with the aim of their correction to improve the physiological state and animal productivity. - to acquire the skills of analysis and generalization of the results of the study of climatic and microclimatic indicators of the environment, the state of the soil, the level of feeding and the quality of drinking water, the technological equipment of the premises and, on this basis, make conclusions about the feasibility of using this technology in the economy and, if necessary, make corrections.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Ecological and hygienic aspects of animal husbandry. Control of completeness of feeding. Hygiene of feed preparation for feeding. 2. General sanitary and hygienic measures on farms. Environmental requirements for improvement of the territory. 3. Mineral substances and other components of the diet, feeding rules. Sanitary and hygienic requirements for feed mills, feed kitchens, equipment, inventory. 4. Principles of radiation safety and regulation of radiation exposure. 5. Measures of veterinary and sanitary soil protection. 6. Drinking hygiene of productive animals. Factors affecting the need for drinking water. Ways of getting drunk. Washing, dousing, bathing and hydrotherapy.

	7. Legislation of Ukraine regarding the maintenance, use, health protection of productive and non-productive animals.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Veterinary hygiene and sanitation at the border and in transport
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Nadiia Magrelo, Ph.D., associate professor
<i>Recommended Semester(s)</i>	12
<i>Number of ECTS credits</i>	3,5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	30
<i>lectures</i>	10
<i>laboratory (practical) classes</i>	20
General description of the discipline	
<i>The purpose of studying the discipline</i>	Formation of students' theoretical knowledge about types of transport for transporting animals and their products, modern ways and methods of sanitary treatment of transport. It helps to master the regulatory documentation and sanitary and hygienic requirements for the types of vehicles involved in the transportation of animals and livestock products, which can be used in practical work.
<i>The task of studying the discipline</i>	Having studied the discipline, the student must know the peculiarities of transport, documentation and founding documents, the rights and duties of officials who carry out veterinary and sanitary control and supervision at the border and transport, familiarize themselves with the veterinary and sanitary rules and requirements that specialists are guided by in their work . Mastering the discipline "Veterinary hygiene and sanitation at the border and transport" contributes to the formation of a broad outlook of the future specialist and the effective use of the acquired knowledge. The task of studying the discipline is to acquire theoretical knowledge and practical skills in order to professionally carry out: 1) maintaining relevant documentation related to the transportation of animals and livestock products;

	<p>2) know the legislative acts regarding the transportation of various types of cargo;</p> <p>3) reduction or elimination of risks of injury to animals during transportation;</p> <p>4) optimal selection of vehicles transporting animals and livestock products;</p> <p>5) ensuring that transport, goods, products of animal origin, means of animal care and related facilities do not transmit and are not a means of transmitting animal diseases;</p> <p>6) ensuring the correct, proper, effective and safe use of mechanisms that ensure proper sanitary conditions;</p> <p>7) protection of the natural environment from negative consequences associated with the breeding and circulation of animals and livestock products;</p> <p>8) protection of animal welfare by ensuring humane treatment of animals during their life and especially during their transportation;</p> <p>9) promotion of implementation in practice and wide application of achievements of science and technology.</p>
<i>Brief content of the discipline</i>	<p>1. Normative and legal regulation of transportation of goods controlled by the state veterinary medicine service across the state border of Ukraine.</p> <p>2. Diseases occurring during animal transportation and their prevention</p> <p>3. Hygienic and sanitary requirements for the transportation of different species and sex-age groups of agricultural and exotic animals.</p> <p>4. Veterinary and sanitary requirements for transporting live fish.</p> <p>5. Veterinary and sanitary requirements for the transportation of animals for slaughter.</p> <p>6. Sanitary and hygienic requirements for transportation of livestock products and secondary raw materials.</p>
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

Department of veterinary and sanitary inspection

<i>The name of the discipline</i>	Labeling and falsification of food products
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Simonov Marian Romanovych, Doctor of Veterinary Sciences, Professor, Kushnir Volodymyr Igorovich, Ph.D., docent
<i>Recommended Semester(s)</i>	5-6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i> <i>lectures</i> <i>laboratory (practical) classes</i>	30
	14
	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the discipline is to provide specialists in the field of veterinary medicine with the necessary knowledge to combat economically motivated fraud with food products.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • to form systematic ideas about the quality of food products; • learn concepts, terms, definitions regarding the quality and falsification of food products; • to study the organization of quality control, identification of food products, and characteristics of modern packaging as a means of preventing falsification; • learn techniques, ways, and methods of detecting food adulteration.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. National and international requirements for labeling and identification of food products. 2. The concept of falsification of a food product. Assortment falsification of products. 3. National requirements for the use of food additives. Classification of food additives 4. Food products for special dietary, medical purposes and baby food. 5. Genetically modified organisms in food products. Threats, control, introduction into production. 6. Combating economically motivated fraud and terrorism through food products. 7. Responsibility of market operators for intentional falsification of food products. 8. Modern packaging is a means of preventing counterfeiting of products.
<i>The maximum number of students who can study at the same time</i>	50
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Laboratory work in food hygiene
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Simonov Marian Romanovych, Doctor of Veterinary Sciences, Professor, Kushnir Volodymyr Igorovich, Ph.D., docent
<i>Recommended Semester(s)</i>	3-4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	30
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the discipline is to provide specialists in the field of veterinary medicine with the necessary knowledge to ensure the proper conduct of laboratory research (tests) on the quality and safety of food products.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> • find out the subject, object, research methods and main tasks of laboratory research in food hygiene; • to form a systematic approach to using the possibilities of laboratory research in food hygiene; • to determine the research capabilities of the modern laboratory; • to form the skills of creating a complex laboratory study, determine the quality and safety indicators; • familiarize with the stages of laboratory research; • justify the importance of the pre-analytical stage; • teach how to perform basic laboratory research methods; • to form the skills of interpretation of results and assessment of erroneous data; • to form an idea about the standardization of laboratory research; • justify the importance of studying laboratory research of food products for other disciplines.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Organization of activities and functioning of laboratories. Good Laboratory Practice (GLP). Requirements for the activity of the laboratory. Main areas of implementation of proper laboratory practice. 2. Technical requirements for the laboratory. Personnel. Premises and environmental requirements. Equipment. 3. Risk assessment and decision-making regarding precautionary measures in laboratory

	<p>practice. Concept of risk. Identification of hazards and their analysis. Management of biological risks. Algorithm of actions.</p> <p>4. International standard ISO 17025. Management system. Work with customers. Discrepancy of results. Corrective actions.</p> <p>5. Procedures for documenting the results of laboratory studies. Test reports and calibration certificates. Data management. Requirements for correction of errors in documents.</p> <p>6. Removal of waste. Types of waste in laboratory practice. Risks caused by waste. Collection, sorting and temporary storage.</p> <p>7. State monitoring of the levels of pollutants in raw materials, feed and food products. Purpose and goals of state monitoring.</p> <p>8. Ethical aspects of research on laboratory animals. European legislation on animal experiments. Concept «3R».</p>
<i>The maximum number of students who can study at the same time</i>	50
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Commodity science of food products
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Dashkovskyy Oleh Ostapovich, Ph.D., docent
<i>Recommended Semester(s)</i>	3
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	30
<i>lectures</i>	14
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	To form in students professional knowledge of the methodology and means of scientifically based tasting analysis, taking into account the leading place of organoleptic (sensory) indicators in the nomenclature of quality characteristics of food products, a scientific information base and practical skills for organizing modern sensory analysis of food products; a professional culture of using the acquired knowledge, skills and abilities in choosing methods and rules for conducting sensory analysis of food products.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> to study the theoretical foundations, subject and objectives, terms and definitions of food commodity science;

	<ul style="list-style-type: none"> • to study the processes that occur in food products during transportation and storage and their impact on changes in the quality and nutritional value of products; • to study consumer properties, nutritional value, classification, assortment, technological foundations of production, rules for storing food products; • learn how to conduct a product science, sensory (tasting) assessment of food products, and determine their consumer properties.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Introduction. Sensory analysis and its importance in assessing the quality of food products. 2. Sensory quality control of food products. General information about the science of organoleptics and its role in the examination of food products. 3. Sensory characteristics as a component of food quality. 4. Psychophysiological foundations of taste sensation. Existing hypotheses of the origin of taste. 5. Components and sensory properties of food products. 6. Organization of modern sensory analysis. System of tasting analysis methods. 7. Using expert methods to select the best solutions and perform evaluation operations when conducting organoleptic analyses. 8. Sensory methods of researching the quality of goods. Conditions and rules for creating a tasting commission for consumer assessment of the quality of goods.
<i>The maximum number of students who can study at the same time</i>	50
<i>Language of teaching</i>	Ukrainian / English

Department of genetics and animal breeding

<i>The name of the discipline</i>	Veterinary genetics with the fundamentals of animal breeding
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine. Veterinary pharmaceutical industry.
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kropyvka Yuriy Grygorovych, Candidate of Agricultural Sciences, Associate Professor
<i>Recommended Semester(s)</i>	3-4
<i>Number of ECTS credits</i>	4
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the discipline is to acquire knowledge of the cytological and molecular foundations of heredity, to clarify the patterns of inheritance of alternative traits in individual animal species, to study the processes that occur in animal populations and their use in selection and breeding work and disease prevention. Also, the study of the discipline aims to clarify the laws of ontogenesis, exterior and constitutional features of animals, mastering the basic principles of their choice and selection and methods of breeding.
<i>The task of studying the discipline</i>	<ul style="list-style-type: none"> – studying the ways of implementing hereditary information in the process of animal ontogenesis; – mastering the method of conducting crosses for analyzing the genotype of animals; - establishing the hereditary resistance of animals to diseases and the causes of their genetic abnormalities; – elucidation of the patterns of genetic processes occurring in animal populations and determination of the ratio of genotypes and frequencies of individual genes in them; – study of the biological characteristics of animals of different species and methods of assessing their breeding and productive qualities; – determination of indicators of growth and development of animals and their productivity; – mastering methods of animal breeding and principles of their choice and selection.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. The concept of heredity and variability of organisms. Cytological and molecular bases of heredity. 2. Hybridological research method and its features. Interaction of non-allelic genes. 3. Linked inheritance of characteristics. Gender

	<p>genetics. The inheritance of sex-linked characteristics.</p> <p>4. Population genetics. Factors influencing the genetic structure of populations.</p> <p>5. Immunogenetics and biochemical polymorphism of proteins.</p> <p>6. The concept of anomalies. Genetic resistance of animals to diseases. Mutational variability.</p> <p>7. Ontogenesis of farm animals. Assessment of growth and development of animals.</p> <p>8. The concept of breed and its structure.</p> <p>9. Productivity of farm animals, its accounting and methods of assessment.</p> <p>10. Exterior of animals and methods of its assessment. Types of constitution of farm animals. Interior of animals.</p> <p>11. Theoretical foundations of choice and selection of animals.</p> <p>12. Methods of breeding farm animals.</p>
<i>The maximum number of students who can study at the same time</i>	100
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Animal Breeding
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary Medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Muzyka Lesya Ivanivna, Ph.D., Associate Professor
<i>Recommended Semester(s)</i>	4-5
<i>Number of ECTS credits</i>	3.5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	64
<i>lectures</i>	32
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	<p>To acquaint future specialists in veterinary medicine with the objects of their professional work, namely: biological features of various types of agricultural animals and poultry; their origin and evolution; individual development, patterns of growth and development in different age periods; the nature and magnitude of productivity depending on physiological and technological factors; methods of breeding and selection, their influence on animal health and susceptibility to diseases. The gained knowledge will allow the veterinary doctor to take into account breeding and technological factors in the treatment and use of various types of agricultural animals.</p>

<i>The task of studying the discipline</i>	The main task of the educational discipline: to prepare future doctors of veterinary medicine to carry out preventive and curative measures, taking into account the specific characteristics of rural areas. animals and technologies of management of various branches of animal husbandry.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. The origin and evolution of farm animals. 2. Problems of formation of economically useful traits in animals in ontogenesis. 3. Breed and its structure. 4. Animal productivity. 5. Exterior, constitution, interior of animals. Their relationship with productivity and health of animals. 6. Choice and selection of farm animals. 7. Inbreeding. 8. Methods of breeding farm animals. 9. Organizational measures for breeding farm animals.
<i>The maximum number of students who can study at the same time</i>	200
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Breeding of decorative animal and poultry species
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	"Veterinary Medicine"
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Bodnar P.V., Candidate of Agricultural Sciences, Associate Professor
<i>Recommended Semester(s)</i>	5-6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	44
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	28
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of studying the academic discipline "Breeding of ornamental species of animals and poultry" is to familiarize higher education students with the origin and biological characteristics of various species of ornamental animals and poultry, the main breeds, the history of their creation, and to master the basic principles of keeping, feeding, breeding and using ornamental animals and poultry.
<i>The task of studying the discipline</i>	The main tasks of the educational discipline "Breeding of decorative species of animals and poultry" are to teach students of higher education to control the maintenance, care, feeding, breeding

	and use of various species of decorative animals and poultry. The task of studying the discipline is to study the origin, biological features of various types of decorative animals and poultry, the main species and breeds of decorative animals and poultry, to know their brief characteristics, features of keeping, feeding, care and breeding, ethology and zoopsychology, and also be able to control the maintenance, feeding and care of breeding decorative animals and poultry; determine their gender at different ages; carry out selection and selection of pairs for mating; select the most adapted species and breeds of decorative animals and poultry for breeding at home; carry out hygiene procedures and sanitary and preventive measures.
<i>Brief content of the discipline</i>	The study of the origin, domestication, morphological and biological features, ethology, features of feeding, maintenance, breeding and use of various species and breeds of decorative animals, in particular: 1. Decorative poultry (chickens, pheasants, ducks, geese, pigeons, canaries) and parrots of various species. 2. Decorative breeds of dogs, rabbits and chinchillas. 3. Cats of various breeds. 4. Decorative rabbits and chinchillas. 5. Decorative mice, rats, hamsters and guinea pigs.
<i>The maximum number of students who can study at the same time</i>	200
<i>Language of teaching</i>	Ukrainian / English

**Department of production safety and mechanization
of technological processes in animal husbandry**

<i>The name of the discipline</i>	Occupational safety and health
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Borys Chaikovskiy, candidate of technical sciences, docent
<i>Recommended Semester(s)</i>	4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	Credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	To study the causes of injuries and their classification; analyze modern methods of investigating injuries and occupational diseases and ways to reduce them; learn how to properly draw up documentation; conduct training and briefings on occupational safety; investigate accidents.
<i>The task of studying the discipline</i>	Know: basic labor protection terms; basic provisions of regulatory and legal documents in their activities; management of labor protection in the agricultural sector and in the field of veterinary medicine; state labor protection supervision bodies; public control over labor protection; types, sources, factors and conditions of occupational hazards in agriculture and in the field of veterinary medicine; procedure for investigating accidents, occupational diseases and accidents in agriculture and in the field of veterinary medicine.
<i>Brief content of the discipline</i>	Forms professional knowledge, skills and abilities of higher education students to carry out effective professional activities by ensuring optimal management of labor protection at agricultural and veterinary enterprises and responsibility for personal and collective safety in the workplace in the field of veterinary medicine.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

**Department of Enterprise Economics, Innovations and Consulting
at the Agricultural Industry named after Professor I.V. Popovych**

<i>The name of the discipline</i>	Agribusiness, economics and management of livestock production
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Dushka Vitaliy Ivanovych, PhD in Economics, Associate Professor Vasyl Antonovych Chemeris, Doctor of Economics, Professor Maksym Volodymyr Liubomyrovych, PhD in Economics, Associate Professor
<i>Recommended Semester(s)</i>	5
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i> lectures</i>	16
<i> laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Developing a system of knowledge on the organization and functioning of business at the macro level as a specific form of social relations, a subsystem of the economic base, and acquiring practical skills in developing market relations.
<i>The task of studying the discipline</i>	1. Ability to use professional knowledge in the field of production and processing of livestock products. 2. Ability to apply basic knowledge of economics, organization and management in the production and processing of livestock products. 3. Ability to apply knowledge of the organization and management of the technological process of livestock products processing. 4. Ability to analyze the economic activities of the enterprise, to keep primary records of material assets, fixed assets, labor and its payment.
<i>Brief content of the discipline</i>	1. Theoretical aspects of agribusiness development. 2. Resource potential of agricultural enterprises. 3. Production costs and efficiency of agricultural enterprises. 4. Organization of own business and business planning of entrepreneurial projects. 5. Finance, banks and loans. 6. Taxation, risks and their insurance in agribusiness. 7. Production management of livestock 8. Cooperation ties of the business. State regulation and support in agribusiness.
<i>The maximum number of students who can</i>	50

<i>study at the same time</i>	
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Economics and organization of agribusiness
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Dushka Vitaliy Ivanovych, PhD in Economics, Associate Professor Vasyl Antonovych Chemeris, Doctor of Economics, Professor Maksym Volodymyr Liubomyrovych, PhD in Economics, Associate Professor
<i>Recommended Semester(s)</i>	5
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Developing a system of knowledge on the organization and functioning of business at the macro level as a specific form of social relations, a subsystem of the economic base, and acquiring practical skills in developing market relations.
<i>The task of studying the discipline</i>	1. Ability to use professional knowledge in the field of production and processing of livestock products. 2. Ability to apply basic knowledge of economics, organization and management in the production and processing of livestock products. 3. Ability to apply knowledge of the organization and management of the technological process of livestock products processing. 4. Ability to analyze the economic activities of the enterprise, to keep primary records of material assets, fixed assets, labor and its payment.
<i>Brief content of the discipline</i>	1. Theoretical aspects of agribusiness development. 2. Resource potential of agricultural enterprises. 3. Production costs and efficiency of agricultural enterprises. 4. Organization of own business and business planning of entrepreneurial projects. 5. Finance, banks and loans. 6. Taxation, risks and their insurance in agribusiness. 7. Management of livestock production. 8. Cooperative relations of agricultural enterprises. State regulation and support in

	agribusiness.
<i>The maximum number of students who can study at the same time</i>	50
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Economics and organization of livestock production
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Dushka Vitaliy Ivanovych, PhD in Economics, Associate Professor Vasyl Antonovych Chemeris, Doctor of Economics, Professor Maksym Volodymyr Liubomyrovych, PhD in Economics, Associate Professor
<i>Recommended Semester(s)</i>	5
<i>Number of ECTS credits</i>	3,0
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i> lectures</i>	16
<i> laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Strengthening the economic training of students, providing them with the necessary theoretical knowledge and practical skills to objectively assess the activities of a livestock production enterprise and make effective decisions in specific situations.
<i>The task of studying the discipline</i>	1. Ability to master the methods of calculation and analysis of economic efficiency of resource use. 2. Ability to master the methods of calculating production costs. 3. Ability to compare options for making technological decisions. 4. Ability to assess the technical and economic condition of the enterprise. 5. Ability to assess the economic efficiency of production investments, accounting for costs, income and performance.
<i>Brief content of the discipline</i>	Topic 1: Theoretical aspects of agribusiness development. Entrepreneurship in the system of economic relations. Topic 2. Resource potential of agricultural enterprises. Theme 3: Production costs, results and efficiency of agricultural enterprises. Topic 4. Mechanism for starting your own business. Business planning of entrepreneurial projects.

	<p>Topic 5. Economics and organization of crop and fodder production.</p> <p>Topic 6. Economics and organization of livestock industries.</p> <p>Topic 7. Scientific bases of organization and standardization of labor. Remuneration and material incentives for employees</p> <p>Theme 8: Cooperative relations of business entities. State support and promotion of agribusiness development in Ukraine.</p>
<i>The maximum number of students who can study at the same time</i>	50
<i>Language of teaching</i>	Ukrainian / English

Department of Technology of Production and Processing of Livestock Products

<i>The name of the discipline</i>	Fundamentals of livestock production and processing technology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Mazur N.P., Doctor of Agricultural Sciences, Senior Researcher
<i>Recommended Semester(s)</i>	6
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	Training of a qualified specialist in the field of Veterinary Medicine, who, in the conditions of the current level of development of the livestock industry, is able to organise, on the basis of deep theoretical training and practical skills, in a particular farm of any form of ownership and management, the profitable production of milk, beef, pork, lamb, poultry products based on energy-saving and environmentally friendly technologies, to ensure the production of high-quality products in accordance with existing modern technologies for the manufacture of cattle and poultry products.
<i>The task of studying the discipline</i>	To provide applicants with in-depth theoretical knowledge and practical skills in modern technologies for the production of milk, beef, pork, lamb, poultry products, organisation of reproduction of breeding stock, feeding, maintenance and rational use of farm animals and poultry, to determine the suitability of milk, meat, eggs for food production, to master modern technologies for the production of dairy and meat products.
<i>Brief content of the discipline</i>	The discipline "Fundamentals of Livestock Production and Processing Technology" is aimed at developing students' theoretical knowledge and practical skills necessary for the effective management of technological processes in the field of animal husbandry. The course covers the main aspects of production of various types of livestock products (dairy, meat, poultry, sheep, etc.) and technological methods of their primary processing and storage. Particular attention is paid to increasing productivity, ensuring product quality and safety, and preserving its nutritional value. The course examines modern approaches to the rational use of resources, organisation of processing processes, introduction of innovative technologies

	and ensuring environmental safety of production. In addition, the course examines the economic aspects of production processes and their impact on the country's food security. Mastering the content of the discipline will allow students to acquire the necessary competencies for further professional activities in the field of animal husbandry, as well as contribute to the development of their skills in analytical thinking and effective management decisions.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

Department of Animal Nutrition and Feed Technology

<i>The name of the discipline</i>	Feeding, nutrition of animals and fodder production
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Petryshak R. A., Candidate of Agricultural Sciences, Associate Professor Naumyuk O. S., Candidate of Agricultural Sciences, Associate Professor
<i>Recommended Semester(s)</i>	4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	64
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	48
General description of the discipline	
<i>The purpose of studying the discipline</i>	To develop knowledge and skills in the organization of animal feeding systems, progressive methods of harvesting, storage and rational use of feed, control of sanitary measures and compliance with requirements at all stages of growing, processing and storage of animal and plant products.
<i>The task of studying the discipline</i>	Involves the study of in-depth knowledge of normalized animal feeding, the impact of targeted nutrition on the body to improve the productive and breeding qualities of animals, the impact of feed factors on animal resistance and health to prevent their diseases.
<i>Brief content of the discipline</i>	1. The science of animal nutrition. Chemical composition and digestibility of feed nutrients. 2. The role of organic substances in feed and its role in nutrition of animals. The role of mineral and biologically active substances (BAS) in animal nutrition. 3. Classification of feed. Green cowpea. Use of green, roughage and concentrated feed in animal feeding. 4. The use of juicy fodder in animal feeding. Progressive technologies for harvesting silage fodder. 5. Fundamentals of normalized animal feeding. Feeding of cattle. 6. Feeding of sheep and goats. Normalized feeding of horses. 7. Normalised feeding of pigs. 8. Feeding of laying hens and broiler chickens. Feeding of turkeys and other bird species.
<i>The maximum number of students who can study at the same time</i>	150
<i>Language of teaching</i>	Ukrainian / English

Department of Ecology

<i>The name of the discipline</i>	Basics of general ecology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Roman Paraniak, Doctor of Ecological Sciences, Professor
<i>Recommended Semester(s)</i>	3
<i>Number of ECTS credits</i>	3,5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32
General description of the discipline	
<i>The purpose of studying the discipline</i>	It is about understanding and ensuring health animals in taking into account environmental factors that can affect their lives.
<i>The task of studying the discipline</i>	For higher education students, the field of veterinary medicine includes a focus on studying the relationship between animals, their environment, and the impact of human activity.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Ecology is the science of the interaction of living things. 2. Environmental factors and their classification. 3. Complex organisms systems. 4. The biosphere as a global ecosystem. 5. Anthropogenic pollution of the environment and its impact on living organisms. 6. The problem of environmentally friendly production products. 7. Genetically modified foods. 8. Natural resources of planet Earth.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Ecology in veterinary medicine
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Roman Paraniak, Doctor of Ecological Sciences, Professor
<i>Recommended Semester(s)</i>	3
<i>Number of ECTS credits</i>	3.5
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	48
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	32

<i>The name of the discipline</i>	Ecology in veterinary medicine
General description of the discipline	
<i>The purpose of studying the discipline</i>	It consists in studying the relationship between animal health, the environment and human health to ensure sustainable development and prevention of the spread of diseases
<i>The task of studying the discipline</i>	For higher education students, the field of veterinary medicine includes a focus on studying the relationship between animals, their environment, and the impact of human activity.
<i>Brief content of the discipline</i>	<ol style="list-style-type: none"> 1. Rational environmental management as a guarantee of sustainable development. 2. Organic farming as the basis for the production of environmentally friendly products. 3. The problem of pollution of hydroecosystems by wastewater. 4. Main sources and pollutants of the environment. 5. The importance of reducers in the functioning of natural and artificial hydroecosystems . 6. Greening of production processes at agro-industrial enterprises. 7. Environmental problems of our time. 8. Pesticides are some of the most dangerous environmental pollutants.
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

Department of Philosophy and Pedagogy

<i>The name of the discipline</i>	Psychology of professional communications in veterinary medicine
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Zaverukha O.Ya. PhD (psychology)
<i>Recommended Semester(s)</i>	9-10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	The goal of the academic discipline is to master modern theoretical concepts and practical achievements in professional communication.
<i>The task of studying the discipline</i>	The main objectives of the academic discipline are as follows: - mastering knowledge of the basics of communication psychology; - mastering practical skills in interpersonal and professional communications; - forming an appropriate strategy for the development of interpersonal communicative behavior.
<i>Brief content of the discipline</i>	1. The concept of communication. The specifics of individual communication in a group. 2. Communication as a communicative process. Perceptual and interactive aspects of communication. 3. Preparation and delivery of a professional speech. 4. Interpersonal professional communication. 5. Conflict communication in the professional sphere.
<i>The maximum number of students who can study at the same time</i>	15
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Sociology
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Yakymovych O.N. PhD (pedagogy)
<i>Recommended Semester(s)</i>	9-10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit

<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	The purpose of the academic discipline is to determine the value orientations of a citizen's personal and social activity, to make them aware of their place and role in society.
<i>The task of studying the discipline</i>	The main objectives of the academic discipline are as follows: - understanding the essence and content of sociology as a science; - defining key concepts and categories of sociology; - analyzing the concept of society, its features and types; - defining and analyzing key concepts and categories of sociology of the individual; - identifying the features and structure of conflict; - sociological analysis of public opinion; - studying the main branch sociological directions; - studying the methodology and techniques of sociological research.
<i>Brief content of the discipline</i>	1. Sociology as a science. 2. Society as a social system. 3. Personality in the system of social relations. 4. Sociology of conflict 5. Public opinion as an object of sociological analysis. 6. Sociology of medicine. 7. Economic sociology. 8. Methodology and techniques of sociological research
<i>The maximum number of students who can study at the same time</i>	15
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Fundamentals of pedagogy
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Smolinska O.Ye., D.Sc. (Pedagogy), Professor
<i>Recommended Semester(s)</i>	9-10
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16

General description of the discipline	
<i>The purpose of studying the discipline</i>	The goal of the academic discipline is to master knowledge of the history and development of education and pedagogical thought in Ukraine, key theoretical and practical principles of organizing and implementing the educational process.
<i>The task of studying the discipline</i>	The main tasks of the academic discipline are as follows: - study of the laws and regularities of the pedagogical process; - study and comprehensive understanding of the process of personality development, as well as the dependence between its formation, development and upbringing; - determination of the goal, tasks, content and results of upbringing and education; - justification of modern effective and at the same time humane pedagogical technology; - formation of the ability to share knowledge with different categories of the population.
<i>Brief content of the discipline</i>	1. Pedagogy in the system of human sciences. 2. Personality as a subject of education. Factors of personality development. 3. Didactics - the theory of education and training. Methods and forms of teaching 4. General characteristics of the educational process. Main directions of education 5. The education system in Ukraine and other countries.
<i>The maximum number of students who can study at the same time</i>	15
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Genealogy
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kupchak T.Z., senior lecturer
<i>Recommended Semester(s)</i>	3-4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	Nurturing family values, supporting family traditions, and developing harmonious relationships within the family.

<i>The task of studying the discipline</i>	Restoring the cult of the family, the native settlement, studying the history of one's locality, caring for one's native culture, customs, traditions, and improving oneself in this knowledge.
<i>Brief content of the discipline</i>	<p>1. Introduction to genealogy The concept of "family" and its importance in human life. Fundamentals of family culture and morality.</p> <p>2. Family and its history Study of genealogy (creation of a family tree). Family traditions and their significance. Preservation of the memory of generations (oral histories, archives, photographs).</p> <p>3. Family as a social institution Social functions of the family. The role of a man, a woman, children, older generations in the family. Relationships between generations and their influence on family harmony.</p> <p>4. Family traditions and rituals Traditional holidays and rituals (weddings, christenings, anniversaries, etc.). National and regional features of family traditions. Formation of new traditions in a modern family.</p> <p><u>Teaching methods</u> Lectures and interactive seminars. Work with historical sources and family archives. Holding family holidays and events.</p>
<i>The maximum number of students who can study at the same time</i>	30
<i>Language of teaching</i>	Ukrainian / English

<i>The name of the discipline</i>	Workshop on Ukrainian culture
<i>Specialty</i>	H6 «Veterinary medicine»
<i>Educational degree</i>	master
<i>Educational and professional program</i>	Veterinary medicine
<i>Lecturer (responsible for educational and methodological support of the discipline)</i>	Kupchak T.Z., senior lecturer
<i>Recommended Semester(s)</i>	3-4
<i>Number of ECTS credits</i>	3
<i>Form of control</i>	credit
<i>Auditory hours, incl.</i>	32
<i>lectures</i>	16
<i>laboratory (practical) classes</i>	16
General description of the discipline	
<i>The purpose of studying the discipline</i>	Nurturing family values, supporting family traditions, and developing harmonious relationships within the family.
<i>The task of studying the discipline</i>	Restoring the cult of the family, the native settlement, studying the history of one's locality, caring for one's native culture, customs, traditions, and improving oneself in this knowledge.

<p><i>Brief content of the discipline</i></p>	<p>Topic 1. Genealogy - family genealogy. Topic 2. Ukrainian folklore. Topic 3. Ukrainian decorative and applied arts. Topic 4. Ukrainian family pedagogy Topic 5. Ancient beliefs of Ukrainians Topic 6. Ukrainian church Topic 7. Architecture and life of Ukrainians Topic 8. National and cultural revival and culture of Ukraine at the present stage. Modern cultural projects. <u>Teaching methods</u> • Interactive seminars. • Holding holidays, festivals and competitions</p>
<p><i>The maximum number of students who can study at the same time</i></p>	<p>30</p>
<p><i>Language of teaching</i></p>	<p>Ukrainian / English</p>