## **SYLLABUS OF THE EDUCATIONAL COMPONENT**





Specialty	211 – Veterinary Medicine	Discipline Status	Mandatory
<b>Educational Program</b>	Veterinary Medicine	Faculty	Veterinary Medicine
Educational Level	Master's Degree	Department	Veterinary Surgery and Reproductology

### **TEACHERS**

# Sliusarenko Dmytro Viktorovych



**Scientific Degree: Doctor of Veterinary** 

Sciences

16.00.05 - Veterinary Surgery Academic title: Professor Work experience: 28 years

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# Zaika Petro Oleksandrovich



**Scientific degree: Candidate of** 

**Veterinary Sciences,** 

16.00.04 - Veterinary Pharmacology

and Toxicology

**Academic title: Associate Professor** 

Work experience: 23 years

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	GENERAL INFORMATION ABOUT THE COURSE
Course Objectives	To teach students the fundamental principles of species-specific animal reactivity, inflammation, surgical infection. To instruct students in the principles of pathogenetic treatment of diseases in various parts of the animal body. To enable students to recognize different groups of diseases, correctly treat animals, and prevent diseases.
Course Format	Lectures Practical classes Self-study Individual assignments
Detailed Learning Outcomes and Assessment Methods:	<ul> <li>Ability to use tools, specialized devices, instruments, conduct research, make informed decisions, evaluate and ensure the quality of work (Competencies: ZK7, ZK11, SK2, PRN1, PRN7) / Individual practical assignments.</li> <li>Ability to apply knowledge in practical situations, perform obstetric and surgical procedures and operations, collect case history data during animal examination, make decisions on the choice of effective methods of diagnosis, treatment and disease prevention (Competencies: ZK2, SK9, PRN2, PRN4) / Individual practical assignments.</li> <li>Ability to comply with occupational health and safety regulations, asepsis and antiseptics during professional activities, recommend health-improving measures, methods of therapy, diagnosis and treatment of diseases (Competencies: SK3, PRN5, PRN6) / Individual practical assignments.</li> <li>Ability to make informed decisions, conduct clinical studies to formulate conclusions about the condition of animals or establish a diagnosis (Competencies: ZK9, SK4, PRN10) / Individual test assignments</li> </ul>
Course Volume and Assessment Methods	10 ECTS credits (300 hours)  42 hours of lectures  116 hours of laboratory-practical classes

	112 hours of self-study  Modular control (5 modules)  Assessment forms: Pass/Fail (non-differentiated), term paper, exam
Teacher requirements	Timely completion of assignments  Active participation  Teamwork
<b>Enrollment Conditions</b>	Mandatory component

#### COMPLEMENTS THE EDUCATION STANDARD AND EDUCATIONAL PROGRAM

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Ability to conduct research at the appropriate level (ZK 7)
Ability to make informed decisions (ZK 9)
Ability to evaluate and ensure the quality of work performed (ZK 11)

Ability to apply knowledge in practical situations (ZK 2)

Ability to use tools, specialized devices, instruments, laboratory equipment and other technical means for carrying out the necessary manipulations during professional activity (SK 2)

Ability to comply with occupational health and safety regulations, asepsis and antiseptics during professional activities (SK 3)

Ability to conduct clinical studies to formulate conclusions about the condition of animals or establish a diagnosis (SK 4) Ability to perform obstetric-gynecological and surgical procedures and operations (SK 9)

# Program Learning Outcomes:

Know and correctly use the terminology of veterinary medicine (PRN 1)

Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies (PRN 2)

Collect case history data during registration and examination of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal diseases (PRN 4) Establish a link between the clinical manifestations of the disease and the results of laboratory tests (PRN 5) Develop quarantine and health-improving measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies (PRN 6) Formulate conclusions on the effectiveness of selected methods and means of keeping, feeding and treating animals, preventing infectious and non-infectious diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of different classes and species (PRN 7)

Propose and use appropriate innovative methods and approaches to solving problematic situations of professional origin (PRN 10)

# **COURSE STRUCTURE**

	Module 1. Traumatism of fa	ırm animals. Su	rgical infection. Pathogenetic therapy in v	eteri	nary surgery.
Lecture 1	Introductory lecture on general and special surgery	Practice 1	Features of work in a modern surgical clinic Animal body reactions to trauma	Independent work	General and special methods of
Lecture 2	Surgical infection and its clinical manifestations				treatment of aseptic and purulent
	mamicstations	Practice 2	Aerobic infection: boil, carbuncle, abscess, phlegmon, gangrene.	_	inflammation in different animal species. Differential diagnosis of
Lecture 3	Hemotransfusion in animals	Practice 3	Anaerobic infection: gas abscess, gas phlegmon, gas gangrene, malignant edema.		edema, infiltrates and proliferations. Exudates. Types of exudates.
		Practice 4	General surgical infection – sepsis		Classification and differential diagnosis of phlegmon and abscesses.
		Practice 5	Skin diseases.	Pathogens of anaerobic infe	Surgical methods of their treatment. Pathogens of anaerobic infection.
		Practice 6	Pathogenetic therapy.		Modern aspects of the treatment of sepsis in animals.
		Practice 7	Physiotherapy in the treatment of animals with surgical diseases.		Methodology for the manufacture and use of tissue preparations of animal and plant origin in the treatment of
		Practice 8	Light and electrotherapy.		animals with surgical pathology. Specific features of the use of
		Practice 9	Novocaine therapy.		novocaine blockades in animals with surgical pathology.
		Practice 10	Hemotransfusion.		
		Practice 11	Types and methods of hemotransfusion.		

Practice 12	Features of work in a modern surgical
	clinic

# Module 2. Open and closed mechanical tissue injuries. Necrosis, ulcers and fistulas. Burns and frostbite. Diseases of muscles, tendons and ligaments.

	rections, dicers and its	culus. Duriis aire	a mostaite. Diseases of masties, temaons	ana ng	aments.	
Lecture 4	Open soft tissue injuries	Practice 13	Closed soft tissue injuries.	ork	Gunshot wound. Its features. Diagnosis, complications and	
Lecture 5	Closed soft tissue injuries and their clinical manifestations	Practice 14	Open soft tissue injuries, bleeding and methods of stopping it.	Independent work	treatment methods. Features of the course of the wound process in different types of domestic animals.	
Lecture 6	Muscle diseases	Practice 15	Methods of examining a wounded animal.	Indep	Differential diagnosis of edema, hematomas, lymphoextravasations.	
Lecture 7	Diseases of tendons and tendon sheaths, mucous bags	Practice 16	Treatment of wounded animals.		Features of conducting diagnostics of closed injuries of various degrees	
		Practice 17	Burns. Frostbite.		and providing medical care to animals.	
		Practice 18	Necrosis. Ulcers. Fistulas		Coagulative and colliquative	
		Practice 19	Muscle diseases.		necrosis, gangrene. Their etiopathogenesis, differential	
		Practice 20	Diseases of tendons and their sheaths.		diagnosis and principles of treatment.	
		Practice 21	Tendon ruptures, types of tendon sutures.		Basic principles and modern methods of treatment of aseptic	
		Practice 22	Diseases of mucous membranes and synovial bags.		myositis, tendovaginitis in animals. Contractures. Types of contractures. Etiopathogenesis, clinical signs, treatment.	
Module 3. Diseases of bones and joints, neoplasms and hernias.  Diseases of blood and lymphatic vessels and peripheral nerves.						
Lecture 8	Joint diseases	Practice 23	Inflammatory joint diseases	ent	Differential diagnosis of arthrosis, hemarthrosis, ankylosis, dystrophy	
Lecture 9	Bone diseases	Practice 24	Non-inflammatory joint diseases	Independent work	and dislocation. Modern methods of treatment of joint dysplasia in small	
Lecture 10	Neoplasia	Practice 25	Classification of bone fractures.	Ind	animals. Features of treatment of purulent inflammation of the joints.	

Practice 26	Osteosynthesis, its types and indications.
Practice 27	Neoplasms.
Practice 28	Modern methods of treating animals with neoplasms
Practice 29	Hernias
Practice 30	Diseases of peripheral nerves: paralysis, paresis.
Practice 31	Diseases of blood and lymphatic vessels.

Complications of purulent arthritis and methods of their elimination. Complications arising from open fractures. Their diagnosis, clinical signs, treatment and prevention. Bone regeneration. Phases and conditions that contribute to the acceleration of bone healing. Differential diagnosis of periostitis, hyperostoses, exostoses. Clinical signs, treatment and prevention.

Papillomatosis. Features of the course and treatment in different species of animals. Surgical methods of treatment of benign tumors in animals. Modern principles of reconstructive surgery.

Модуль 4. Хвороби ділянки голови, потилиці, шиї, грудей та холки. Хвороби ділянки живота, попереку та тазу, сечостатевих органів. Діагностики хвороб кінцівок.

Lecture 11	Special surgery, its purpose and tasks. Diseases of the head	Practice 32	Diseases of the head.	
Lecture 12	Diseases of the oral cavity in animals	Practice 33	Dental pathology in animals. Dental diseases.	
Lecture 13	Diseases of the chest and withers	Practice 34	Dental pathology in animals. Periodontal diseases.	
Lecture 14	Diseases of the abdomen	Practice 35	Diseases of the nape and neck	work
		Practice 36	Diseases of the lumbar and pelvic regions.	Independent work
		Practice 37	Diseases of the abdomen. Ileus.	Inde

Ear diseases. Otitis. Classification and distribution of dental diseases. Anomalies of tooth development and dental occlusion. Caries, gingivitis, periodontitis, periodontitis, osteomyelitis. X-ray diagnostics in veterinary dentistry. Drawing up a plan for receiving animals with diseases of the oral cavity. Justification of the prescribed diagnostic and treatment methods.

Inflammation of the jugular vein, obstruction of the esophagus. Drawing up a plan for receiving animals with diseases of the occiput and neck,

		Practice 38	Complications associated with castration in various species of animals.		diseases of the chest. Justification of the prescribed diagnostic and treatment methods.
		Practice 39	Diseases of the genitourinary organs of an inflammatory nature.		Diseases in the lumbar region: spondylitis, spondyloarthritis, fractures, dislocations. Diseases in the
		Practice	Neoplasms of the genitourinary organs.		pelvic and perineal region. Pelvic bone fractures, paraproctitis, perineal hernia, rectal prolapse. Drawing up a
		Practice 41	Diagnosis of diseases of the extremities. General and special methods of examination		plan for receiving animals with diseases of the lumbar region and pelvis. Justification of the prescribed diagnostic and treatment methods.
		Practice 42	Diseases of the thoracic extremities.		
		Practice 43	Diseases of the pelvic extremities.		
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Lecture 15		Practice 44	ary orthopedics and ophthalmology  The structure of individual parts of the		Innervation and blood supply of
Lecture 15	Definition of the concept of "veterinary orthopedics"	Fractice 44	hooves and hooves in different species of animals.		hooves and hooves in animals.  Necrosis and ossification of soft cartilage in horses. Features of the
Lecture 16	Hoof diseases	Practice 45	Diagnosis of hoof diseases in animals.		use of conductive anesthesia in diseases of the hooves and hooves
Lecture 17	Hoof deformities	Practice 46	Research of animals with diseased hooves in production conditions with different forms of animal keeping	Independent work	in animals. Features of hoof care in various methods of keeping cows.  Differential diagnosis of keratitis
Lecture 18	Veterinary ophthalmology	Practice 47	Hoof diseases. Differential diagnosis. Sole wounds, pododermatitis, inflammation in the area of the corolla and pulp, Rusterholtz ulcer, laminitis, PPD, hoof rot, necrobacteriosis.	Indepen	using modern devices and equipment. Pathological state of the aqueous humor of the eye. Causes of occurrence, diagnosis and treatment. Diagnosis and treatment of mass eye lesions in cattle. Breed-
Lecture 19	Diseases of the eyelids and conjunctiva	Practice 48	Diseases of deep hoof structures.  Diseases of the hoof joint, navicular		specific features of the spread of eye diseases in animals. Diseases of the lacrimal apparatus.

			bursa, subtrochleitis. Founder and sinker.
Lecture 20	Diseases of the cornea	Practice 49	Horse shoeing. Types of horseshoes, their structure and manufacture. Purpose and characteristics.
Lecture 21	Diseases of the refractive structures of the eye, lens diseases.	Practice 50	Methods of cleaning hooves in cattle during inflammatory processes and the use of pathogenetic treatment agents.
		Practice 51	Morpho-physiological characteristics of the organ of vision
		Practice 52	General and special methods of studying animals with eye diseases.
	Practice 53	Methods and features of the use of drugs in the treatment of eye diseases in animals.	
		Practice 54	Diseases of the eyelids, conjunctiva and cornea
		Practice 55	Diseases of deep structures of the eye: vascular tract, retina, optic nerve.
	Practice 56	Diseases of the refractive structures of the eye. Diseases of the vitreous body: hemorrhages, opacities and detachments.	
	Practice 57	Diseases of all parts of the eye and emergencies in veterinary ophthalmology.	
		Practice 58	Types of surgical interventions for the treatment of animals with eye diseases.

Inflammation of the lacrimal sac, lacrimal tubules and nasolacrimal duct. Their diagnosis and treatment.

### BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Methodological support

- 1. Борисевич В.Б., Панько І.С., Терес М.О., Іздепский В.Й. Спеціальна ветеринарнам хірургія. – К.: Видавн. УСГА, 1993. – 493c.
- 2. Борисевич В.Б. Ветеринарна ортопедія і офтальмологія / БорисевичВ.Б. – К.: Урожай, 1994. – 136 с.
- 3. Ветеринарна ортопедія / [Борисечич В.Б., Борисечич Б.В., Петренко О.Ф., Хомін Н.М.]. - К., 2007. - 136 с.
- 4. Загальна ветеринарно-медична хірургія / за ред. проф. Борисевича В.Б. – К.: Науковий світ, 2001.
- 5. Загальна хірургія: підручник / С. Д. Хіміч, М. Д. Желіба, І. Д. Герич та ін.; за ред. С. Д. Хіміча, М. Д. Желіби. – 3-є вид., перероб. і доп. – Київ : ВСВ "Медицина", 2018. – 608 с
- 6. Калашник І.О. Кування коней та хвороби копит / КалашникІ.О., Юрченко Л.І., Сарбаш Д.В. – Харків : РВП Оригінал, 1998. – 216 с.
- 7. Ортопедія парно- і непарнопалих тварин / [Борисевич В.Б., Борисечич Б.В., Сухонос В.П., Петренко О.Ф., Хомін Н.М. та ін]. – К. : ДІА, 2008. – 200 с.
- 8. Пантьо В. І. Загальна хірургія : навч. посібник / В. І. Пантьо, В. М. Шимон, О. О. Болдіжар. – Ужгород : ІВА, 2010. –464 с.
- 9. Панько І.С., Власенко В.М., Гамота А.А., Рубленко М.В., Іздепський В.Й., Петренко О.Ф., Ільницький М.Г. Спеціальна ветеринарна хірургія. – Біла Церква, БДАУ, 2003. – 416 c.
- 10. Петренко О.Ф та ін. «Хірургія ветеринарної медицини».-К.: Вища освіта, 2005.- 399.
- 11. Практикум: Загальна та спеціальна хірургія: / Д. В. Сарбаш, Д. В. Слюсаренко, К. А. Синяговська, О. В. Кантемир, П. О. Заїка. Харків, 2020. - 265 с.
- 12. Сарбаш Д.В. Ортопедія коней / Сарбаш Д.В., Кантемир О.В. Слюсаренко Д.В. - [2-е изд.]. - Харків, 2009. - 216 с.
- 13. Словник термінів ветеринарної хірургії. // Власенко В.М., Тихонюк Л.А. – Біла Церква, 2008. – 360 с.
- 14. Спеціальна ветеринарна хірургія / ГПанько І.С., Борисевич В.Б., Терес М.О. та ін.]. – К. : УСГА, 1993. – 401 с.

- 1. Слюсаренко Д.В., Синяговська К.А., Сарбаш Д.В., Заїка П.О., Кочевенко А.С. Методичні рекомендації для проведення лабораторно-практичних занять з курсу загальної хірургії для студентів другого рівня вищої освіти (магістр) 4 курсу на базі ПЗСО та 3 курсу на базі молодший спеціаліст факультету ветеринарної медицини. Х.: ДБТУ 2024- 112с.
- 2. Слюсаренко Д.В., Синяговська К.А., Сарбаш Д.В., Заїка П.О., Кочевенко А.С. Методичні рекомендації для проведення лабораторно-практичних занять з курсу спеціальна хірургії для студентів другого рівня вищої освіти (магістр) 4 курсу на базі ПЗСО та 3 курсу на базі молодший спеціаліст факультету ветеринарної медицини. Х.: ДБТУ 2024 - 52с.
- 3. Слюсаренко Д.В., Синяговська К.А., Сарбаш Д.В., Заїка П.О., Кочевенко А.С. Методичні рекомендації для написання історії хвороби з курсу загальної та спеціальної хірургії для студентів другого рівня вищої освіти (магістр) 5 курсу на базі ПЗСО та 4 курсу на базі молодший спеціаліст факультету ветеринарної медицини. Х.: ДБТУ 2024 - 10 с.
- 4. Робочий зошит для лабораторних занять з дисципліни «Загальна хірургія» / Д.В. Слюсаренко, К.А. Синяговська, Д.В. Сарбаш, А.С. Кочевенко – Х.: ДБТУ 2024 – 124 с.
- 5. Робочий зошит для лабораторних занять з дисципліни «Хірургічні хвороби продуктивних тварин» / Д.В. Слюсаренко, К.А. Синяговська, Д.В. Сарбаш, А.С. Кочевенко – Х.: ДБТУ 2024 – 116 с.

GRADING SYSTEM							
	SYSTEM	POINTS	ACTIVITY THAT IS ASSESSED				
Summative Assessment	ssessment		50% від усередненої оцінки за модулі				
	100 ECTS points (standard)	up to 50	підсумкове тестування				
		up to 50	відповіді на тестові питання				
Modular Assessment	100-point total	up to 20	усні відповіді на лабораторно-практичних заняттях				
		up to 30	результат засвоєння блоку самостійної роботи				

### **NORMS OF ACADEMIC ETHICS AND INTEGRITY**

All participants in the educational process (including students) must adhere to the code of academic integrity and the requirements stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of the State Biotechnological University": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.