

# SYLLABUS OF THE EDUCATIONAL COMPONENT

## ANATOMY OF A RABBIT

speciality	211 – Veterinary medicine	Mandatory discipline	Selective
Educational program	Veterinary medicine	Faculty	Veterinary Medicine
Educational level	Master's degree	Department	Normal and Pathological Morphology

### TEACHER

**Fesenko Iryna Anatoliivna**



**Higher education – specialty veterinary medicine**

**Scientific degree - Candidate of Veterinary Sciences in the specialty 16.00.02 - pathology, oncology and morphology of animals**

**Academic title**

**Work experience – 14 years**

**Indicators of professional activity on the subject of the course:**

- author of 7 methodological developments;
- Scientific work experience 14 years;
- participant of scientific and methodological conferences

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### GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Purpose	formation of a theoretical and practical idea of the regularities of the structure of the body, as well as the study of the form and structure of organs and systems of the whole organism of rabbits in close relationship with the conditions of existence, with the functions of organs that they perform under the influence of external factors and the internal environment.
Format	lectures, laboratory classes, independent work, individual research assignment for students followed by teacher supervision, writing tests of content chapters, written test work or oral questioning
Detailing the learning outcomes and forms of their control	<ul style="list-style-type: none"> <li>• the ability to imagine the general patterns and features of the structure of organs, systems and apparatuses of organs, animals, their species features in rabbits (GCK1, GC2, SC1, PLO1, PLO2) / <b>individual laboratory lessons, writing tests, credit.</b></li> <li>• the ability to characterize not only the structural features of a particular organ, but also its morpho-functional</li> </ul>

	<p>relationship with various systems of the rabbit's body (GC1, GC2, SC1, SC3, PLO1) / <b>individual laboratory lessons, writing tests, credit.</b></p> <ul style="list-style-type: none"> <li>the ability to understand the general patterns and features of the macroscopic structure of the organism of different classes and species of animals under the influence of biotic and abiotic factors (GC1, GC2, GC3, SC1, PLO1) / <b>individual laboratory lessons, writing tests, credit.</b></li> <li>be able to analyze information regarding the functions, structure, species features of organs, systems and apparatuses of the body of domestic animals, analyze tasks and achievements in solving practical issues of animal husbandry (GC1, GC2, GC3, SC1, PLO1) / <b>individual laboratory lessons, writing tests, credit.</b></li> <li>ability to abstract thinking, analysis, synthesis, search, processing of information from various sources (GC1, GC2, GC3, SC1, PLO1) / <b>individual laboratory lessons, writing tests, credit.</b></li> </ul>
Scope and forms of control	3 Credits ECTS (90 Hours): 14 hours of lecture, 30 hours of laboratory and practical classes; 46 hours of self-study, current control (3 chapters); Final control – differentiated test.
Teacher Requirements	timely completion of tasks, activity, work with individual creative tasks
Enrollment conditions	«Free enrollment»

#### COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competence	<p>GC1. Ability to abstract thinking, analysis and synthesis, search, process information from various sources.</p> <p>GC2. Ability to apply knowledge in practical situations</p> <p>GC3. Knowledge and understanding of the subject area and profession.</p> <p>SC1. Ability to establish the features of the structure and functioning of cells, tissues, organs, their systems and apparatuses of the body of animals of different classes and species – mammals, birds, insects (bees), fish and other vertebrates.</p>	Program Learning Outcomes	PLO1. Know and competently use the terminology of veterinary medicine.
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#### STRUCTURE OF THE EDUCATIONAL COMPONENT

##### Chapter 1. Somatic group systems.

Lecture	Entry. General anatomy	Laboratory lesson		Independent work	
L1					
L2	Characteristics of the rabbit skeleton. Connection of the bones of the skeleton	L1 1	Skeleton. Connection of the bones of the skeleton.		<ol style="list-style-type: none"> <li>To work out methods for the manufacture of bone anatomical preparations</li> <li>Learn to dissect the muscles of the trunk and limbs</li> <li>Determine the thickness of the skin; hair type (guides, guard, down); pulp, claws</li> <li>Determine the number of milk particles and their topography</li> </ol>

L3	Mythology. Dermatology	LI 2	Topographic and functional muscle groups of a domestic rabbit.  Leather and its derivatives.		Mastering the methods of preparation. Interview on anatomical preparations. Execution and protection ISRT
Chapter 2. Visceral group of systems.					
L4	General Splanchnology			Independent work	1. To work out the methods of autopsy of a corpse and determine the topography of organs located in the thoracic, abdominal and pelvic cavities 2. Conduct morphometric studies of lymphoid formations of the rabbit's digestive apparatus 3. Make an educational anatomical preparation: lungs, kidneys, genitourinary organs of a rabbit Anatomical Preparation Interview. Execution and protection ISRT
L5	Rabbit digestion apparatus	LI 3	Digestive and breathing apparatus		
L6	Breathing and urinary apparatus	LI 4	Genitourinary apparatus		
L7	Rabbit genital apparatus	LI 5	Topography of the entrails.		
Chapter 3. Integrated group of systems.					
L8	Cardiovascular system. Endocrine glands	LI 6	Vascular system. Endocrine glands	Independent work	1. Prepare of blood vessels associated with the chambers of the heart 2. Identify the main arterial and venous vessels in the rabbit's body 3. Dissect the main lymph nodes 4. Determine the topography of the adrenal and pancreas 5. Preparation of somatic nerves 6. Determine the topography of the branches of the vagus nerve and their innervation zones 7. Determination of the structure of the organs of the outer ear. 8. Make and design a museum anatomical preparation (tasks for the student section) Anatomical Preparation Interview
L9	Nervous system and analyzers of domestic rabbit	LI 7	Rabbit nervous system. Analyzers.		
		LI 8	Blood supply, lymphatic drainage and innervation of parts of the body and viscera of a domestic rabbit.		
BASIC LITERATURE AND METHODOLOGICAL MATERIALS					

Fixed literature	<ol style="list-style-type: none"> <li>1. Anatomy of domestic animals / S.K. Rudyk, Y.O. Pavlovskiy, B.V. Kryshtoforova and others K.: Agrarian education, 2001. – 575 p.</li> <li>2. Rabbit Anatomy: A Brief Photographic Atlas and Dissection Guide, Part 1: Muscular System // Mukhopadhyay, Soma, Ruggiero Wagner Lisa. Augusta University, 2020. <a href="http://hdl.handle.net/10675.2/622930">http://hdl.handle.net/10675.2/622930</a></li> <li>3. Rabbit Anatomy: A Brief Photographic Atlas and Dissection Guide, Part 2: Cardiovascular System // Mukhopadhyay, Soma, Ruggiero Wagner Lisa. Augusta University, 2023 <a href="https://scholarlycommons.augusta.edu/items/1a0e2708-3848-463c-90b4-0fafdcb52f80">https://scholarlycommons.augusta.edu/items/1a0e2708-3848-463c-90b4-0fafdcb52f80</a></li> </ol>	Methodological support	<ol style="list-style-type: none"> <li>1. Kushch M.M., Miroshnikova O.S., Fesenko I.A., Byrka O.V. Anatomy is the equivalent of living. Methodical Manual on Topographic Anatomy for Conducting Educational Practice of 1st Year Students of the Faculty of Veterinary Medicine. Kharkiv. State Biotechnology University. 2023. 44 p. (Ukraine).</li> <li>2. ISRT on the anatomy of domestic animals. Methodological manual for the implementation of educational and research work of students. Speciality 211-Veterinary medicine / Miroshnikova O.S., Fesenko I.A. // – Kharkiv: State Biotechnology University, 2018. – 52 p.</li> </ol>
			<p style="text-align: center;"><b>ELECTRONIC RESOURCES</b></p> <p>Electronic course of the discipline "Rabbit Anatomy" for students in the specialty "Veterinary Medicine" <a href="http://moodle.btu.kharkiv.ua/course/view.php?id=1675">http://moodle.btu.kharkiv.ua/course/view.php?id=1675</a></p>

GRADING SYSTEM			
	SYSTEM	BALI	EVALUATED ACTIVITIES
Final assessment (differentiated credit, exam)	100-point ECTS (standard)	до 100	40% – final testing, 60% – student’s ongoing work during the semester
Final assessment (non-graded)	100-point ECTS (standard)	до 100	100% – averaged score for all course sections
Section Assessment	Cumulative 100-point scale	до 30	30% – answers to test questions
		до 30	30% – performance on the independent study block
		до 40	40% – student activity during classes (oral responses)
NORMS OF ACADEMIC ETHICS AND INTEGRITY			
All participants in the educational process (including students) must comply with the code of academic integrity and the requirements that are prescribed in the regulation "On the academic integrity of participants in the educational process of State Biotechnology University ": to show discipline, well-manneredness, respect the dignity of each other, show benevolence, honesty, responsibility.			