

Annotation of compulsory educational component "Morphology of farm animals"

<b>Subjects</b>	<b>Morphology of farm animals</b>
<b>Tutor</b>	Bevz Olga Candidate of Veterinary Science, PhD Associate Professor of the Department of Anatomy and Histology after name P. Kowalsky
<b>Course and semester in which you plan to study the discipline</b>	1 year, 1 semesters
<b>Faculties whose students are invited to study discipline</b>	Biological-technological faculty
<b>List of competences and relevant learning outcomes provided by the discipline</b>	<p>According to the requirements of the educational and professional program "Technology production and processing of livestock products" applicants must acquire the ability to acquire the following competencies:</p> <p>GC 3 (general competence). Ability to apply knowledge in practical situations.</p> <p>GC 4. Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>PC 10 (professional competence). The ability to apply knowledge of the morphology, physiology and biochemistry of various species of animals to implement effective technologies for the production and processing of their products.</p> <p>The result of teaching the discipline is the acquisition of the following knowledge and skills by students:</p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>- structure of the microscope and rules of its work;</li> <li>- basics of cytology, general histology and embryology;</li> <li>- macro- and microstructure of the organs of the apparatus of movement, respiration, digestion, urogenital, as well as the skin and its derivatives, nervous, endocrine, hematopoietic and cardiovascular systems.</li> </ul> <p><b>Skill</b></p> <ul style="list-style-type: none"> <li>- use a microscope and determine the individual organs and tissues by histological preparations;</li> <li>- distinguish the bones of different departments of the axial and peripheral skeletons of farm animals and poultry;</li> <li>- to determine on live animals and carcasses the condition and development of the skin and its derivatives, the location of bones, joints, individual muscles and their groups;</li> <li>- recognize the internal organs of domestic animals and birds;</li> <li>- determine the projection of the internal organs, individual structures of the nervous, cardiovascular and endocrine systems on the outer roof and visible structures of the skeleton.</li> </ul>
<b>Description of the discipline</b>	

<p><b>Prerequisites necessary for the study of the discipline</b></p>	<p>To study the discipline of “Morphology farm animal”, students must have basic biology training based on general secondary education</p>
<p><b>Maximum number of students who can study simultaneously</b></p>	<p>25 students</p>
<p><b>Classroom topics</b></p>	<p><b>Lectures:</b></p> <ol style="list-style-type: none"> <li>1. Cytology. Cell reproduction.</li> <li>2. General embryology.</li> <li>3. Embryogenesis of vertebrates.</li> <li>4. General histology. Epithelial tissue.</li> <li>5. Connective tissue.</li> <li>6. Muscle tissue.</li> <li>7. Nerve tissue.</li> <li>8. Osteosyndesmology.</li> <li>9. Myology. Dermatology.</li> <li>10. Splanchnology.</li> <li>11. Respiratory and secretory organs.</li> <li>12. Genital organs of male and female.</li> <li>13. Endocrinology. Angiology.</li> <li>14. Neuroscience. Aesthesiology.</li> </ol> <p><b>Practical classes</b></p> <ol style="list-style-type: none"> <li>1. The structure of the microscope, rules for working with it. Cytoplasmic inclusion and organoids.</li> <li>2. The main stages of vertebrate embryogenesis.</li> <li>3. Epithelial and connective tissue.</li> <li>4. Muscle and nerve tissue.</li> <li>5. Axial skeleton.</li> <li>6. The peripheral skeleton</li> <li>7. Bone junction.</li> <li>8. Myology and dermatology</li> <li>9. Digestive system.</li> <li>10. Respiratory and urinary systems.</li> <li>11. Reproductive system.</li> <li>12. Cardiovascular system and hematopoietic organs.</li> <li>13. Endocrine and nervous system.</li> <li>14. Aesthesiology.</li> </ol>
<p><b>Language of instruction</b></p>	<p>Ukrainian, English</p>