

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
SUMY NATIONAL AGRICULTURAL UNIVERSITY**

**EDUCATIONAL AND PROFESSIONAL PROGRAM**

**«ANIMAL HEALTH AND HUSBANDRY»**

**HIGHER EDUCATION LEVEL: First (Bachelor's) level**

**HIGHER EDUCATION DEGREE: Bachelor**

**FIELD OF KNOWLEDGE: Agriculture, Forestry, Fisheries and Veterinary  
Medicine**

**SPECIALTY: H2, Animal Husbandry**

**APPROVED by the Academic Council of Sumy  
National Agricultural University**

« 23 » march 2026

(Protocol № 15 )

**Chairman of the Academic  
Council Volodymyr LADYKA**

The Educational and Professional Program shall be  
implemented on

« 01 » 2026

**Rector Ihor KOVALENKO**

(Order № 218/ag on « 29 » 04 2026)

**Sumy 2026**

**LETTER OF APPROVAL**  
**of the Educational and Professional Program**  
**Animal Health And Husbandry**  
**Level of Higher Education – First (Bachelor's) Level**

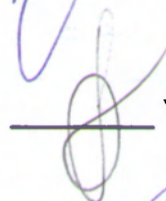
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Candidate of Veterinary Sciences, Associate Professor  
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Halyna REBENKO

Reviewed and approved at an extended meeting of the Faculty of Biology and Technology  
with the participation of student activists and stakeholders  
(Minutes №. 1 dated 26.02 2026).

Approved at a meeting of the Academic Council of the Faculty of Biology and  
Technology (Minutes №. 70 dated 03.03 2026).

Chair of the Academic Council of the Faculty  
of Biology and Technology, Doctor of  
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Victoria VECHORKA

**AGREED:**

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Marharyta LYSHENKO

## PREFACE

The Educational and Professional Program (EPP) for the training of higher education applicants at the first educational level in the specialty "Animal Husbandry" includes the total ECTS credits required for the degree; a list of graduate competencies; the regulatory content of training formulated in terms of learning outcomes; forms of certification; and requirements for the internal quality assurance system.

### **Developed by the Project Group:**

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### **Reviewers**

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**Voshchenko I.B.**, Chairman of the Association of Livestock and Poultry Breeders of Sumy Region, Candidate of Veterinary Sciences, Associate Professor.

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**1. PROFILE OF THE EDUCATIONAL PROGRAM  
H2, ANIMAL HUSBANDRY**

<b>1 – General information</b>	
<b>Full name of higher education institution and structural unit</b>	Sumy National Agrarian University Faculty of Biology and Technology
<b>Higher education degree and qualification title in the original language</b>	Higher education degree – Bachelor Qualification – Bachelor in Animal Husbandry
<b>Official name of educational program</b>	Animal Health And Husbandry
<b>Type of diploma and scope of educational program</b>	Single, 240 ECTS credits, study period 3 years 10 months
<b>Accreditation availability</b>	None
<b>Cycle/level</b>	NRQ of Ukraine – level 6, FQ–ENEА – first cycle EQF–LLL – level 6
<b>Forms of education</b>	Institutional (full-time, part-time), dual
<b>Prerequisites</b>	Having a complete general secondary education. Having a degree of “junior bachelor” (educational and qualification level of higher education “junior specialist”) in specialties within the field of knowledge N “Agriculture, forestry, fisheries and veterinary medicine”
<b>Language of instruction</b>	Ukrainian
<b>Internet address of permanent placement of educational program description</b>	<a href="https://snau.edu.ua">https://snau.edu.ua</a>

<b>2 – Purpose of the educational program</b>	
Training of specialists capable of solving complex specialized tasks and practical problems of professional activity in the field of production and processing of livestock products, veterinary medicine, and breeding of agricultural animals, which are characterized by complexity and uncertainty of conditions, using modern knowledge in biology, genetics, veterinary medicine, and technologies of animal housing and reproduction.	
<b>3 – Characteristics of the educational program</b>	
<b>Subject area (field of knowledge, specialty, specialization (if any))</b>	Field of knowledge – N Agriculture, forestry, fisheries and veterinary medicine Specialty – H2 Animal husbandry
<b>Orientation of the educational program</b>	Educational and professional. Based on fundamental and professional aspects of problematic issues of production and processing of livestock products and veterinary medicine.
<b>Main focus of the educational program and specialization</b>	Training of highly qualified specialists in the technology of production and processing of livestock products with a veterinary focus. Keywords: production and processing of livestock products, veterinary medicine, health, breeding, feeding, growing, management.
<b>Program features</b>	The educational and professional program includes educational and practical training that deepen professional skills, competencies and knowledge of special sections of fundamental and professionally oriented disciplines and thereby provide the opportunity to master professional programs for bachelors.
<b>4 – Graduates' suitability for employment and further education</b>	
<b>Employment eligibility</b>	The specialist is able to perform the specified professional work in accordance with the national classifier of occupations DK 003:2010 and/or the International Standard Classification of Occupations 2008 (ISCO–08) and in accordance with the obtained specialty and qualification in the field of knowledge H Agriculture, forestry, fisheries and veterinary medicine.
<b>Further training</b>	Continuing education at the second (master's) level of higher education. Acquiring additional qualifications in the postgraduate education system.
<b>5 – Teaching and assessment</b>	
<b>Teaching and learning</b>	Training of specialists capable of effectively solving complex specialized tasks and practical problems in the field of animal health and breeding, based on a student-centered, problem-oriented approach to learning. The

	<p>educational process involves the active participation of students in the formation of an individual learning trajectory by choosing disciplines, participating in surveys and questionnaires. Learning is carried out through practical activities, self-study, work in small groups, research activities and close interaction with the teacher in the format of lectures, seminars, laboratory and practical classes, as well as using an electronic environment (Moodle platform) for programmed and problem-based learning.</p> <p>Active learning – interactive teaching methods; problem-oriented learning; the principle of binary – active direct participation of the teacher and student; field trips; learning through practice; self-study; personalized learning – individual consultations; Moodle information and educational environment.</p>
<b>Assessment</b>	<p>Rating control on a 100-point ECTS scale; interim control during the semester (interim assessment); multi-criteria assessment of students' current work: level of knowledge demonstrated in seminars; activity during discussion of issues raised in class; express control during classroom sessions; independent study of the topic as a whole or individual issues; writing essays; test results; written assignments during control works; production situations. Possibility of additional points in the final assessment if the student completes an individual assignment: research work; scientific and practical research with presentation of results, etc.</p> <p>Types of assessment:</p> <ul style="list-style-type: none"> <li>– formative assessment – formative tasks and descriptive feedback to students from teachers, fellow students, a wide range of stakeholders;</li> <li>– summative assessment – determining the level of achievement of the program learning outcomes by the higher education applicant;</li> <li>– self-assessment.</li> </ul> <p>Assessment methods: practical assessment, coursework, examination assessment.</p>
<b>6 – Software competencies</b>	
<b>Integral competence</b>	<p>The ability to solve complex specialized tasks and practical problems in the field of animal health, their breeding, issues of production and processing of livestock products, which involves the use of modern methods of diagnostics, prevention, reproduction, care, feeding and maintenance of farm animals, taking into</p>

	account the requirements of bioethics, animal welfare, biosafety, as well as environmental and economic feasibility, in the context of the complexity and uncertainty of the production environment.
<b>General Competencies (GC)</b>	<p><b>GC 1.</b> Ability to exercise one's rights and responsibilities as a member of society, to understand the values of a civil (free, democratic) society and the necessity of its sustainable development, the rule of law, and human and civil rights and freedoms in Ukraine.</p> <p><b>GC 2.</b> Ability to preserve and enhance moral, cultural, and scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society, and in the development of society, science, engineering, and technology; ability to use various types and forms of physical activity for active recreation and maintaining a healthy lifestyle.</p> <p><b>GC 3.</b> Ability to apply knowledge in practical situations.</p> <p><b>GC 4.</b> Knowledge and understanding of the subject area and understanding of professional activity.</p> <p><b>GC 5.</b> Ability to adapt and act in new situations.</p> <p><b>GC 6.</b> Ability to work in a team and possess interpersonal interaction skills.</p> <p><b>GC 7.</b> Ability to evaluate and ensure the quality of performed work.</p> <p><b>GC 8.</b> Commitment to environmental protection and sustainability.</p> <p><b>GC 9.</b> Ability to search for, process, and analyze information from various sources.</p> <p><b>GC 10.</b> Ability to make decisions and act in compliance with the principle of zero tolerance for corruption and any other manifestations of academic or professional dishonesty.</p> <p><b>GC 11.</b> Ability to use modern digital tools and technologies, create digital content, and protect information in professional activities.</p> <p><b>GC 12.</b> Ability for self-development, maintenance of one's physical and mental health, and participation in public life.</p>
<b>Professional competencies of the specialty (PC)</b>	<b>FC 1.</b> Ability to use professional knowledge in the field of production and processing of livestock products for effective business management.

**FC 2.** Ability to use modern knowledge about methods of reproduction, patterns of individual development, and breeding of animals for effective activities in the field of livestock farming.

**FC 3.** Ability to use knowledge of basic technologies of procurement, production, and storage of feed to form the feed base of the enterprise.

**FC 4.** Ability to compile rations for different species and sex-age groups of animals and organize their standardized feeding, taking into account existing financial and resource limitations.

**FC 5.** Ability to apply appropriate systems and methods of keeping farm animals and control and optimize the microclimate of technological premises.

**FC 6.** Ability to apply basic knowledge of economics, organization and management in the production and processing of livestock products.

**FC 7.** Ability to control technological processes during the production and processing of livestock products.

**FC 8.** Ability to control technological processes during the production and processing of pig products.

**FC 9.** Ability to control technological processes during the production and processing of poultry products.

**FC 10.** Ability to apply knowledge of morphology, physiology and biochemistry of various animal species to implement effective technologies for the production and processing of their products.

**FC 11.** Ability to apply knowledge of the organization and management of the technological process of processing livestock products for the effective conduct of economic activities of the enterprise.

**FC 12.** Ability to analyze the economic activities of the enterprise, maintain primary accounting of material assets, fixed assets, labor and its payment.

**FC 13.** Ability to use special knowledge to carry out sanitary and hygienic and preventive measures on farms and other facilities for the production and processing of livestock products.

**FC14.** Ability to recognize the structure and functions of cells, tissues, organs and systems of the animal body, as well as understand their development at different stages of ontogenesis.

**FC 15.** Ability to apply knowledge of microbiology, immunology and toxicology to identify pathogenic

	<p>agents, assess the immune status of animals and prevent toxic lesions.</p> <p><b>FC 16.</b> Ability to use chemical, biochemical and molecular biological analysis methods to study metabolic processes, the composition of biological samples and understand the chemical basis of life.</p> <p><b>FC 17.</b> Ability to analyze hereditary traits, genetic processes and biotechnological methods to improve reproduction, selection and health of animals.</p>
<b>7 – Learning outcomes</b>	
<b>LO 1.</b> Ensure compliance with parameters and control technological processes for the production and processing of livestock products.	
<b>LO 2.</b> Train employees of the enterprise in modern and new components of technological processes for the production and processing of livestock products.	
<b>LO 3.</b> Perform functional duties, leveling the influence of various factors and production situations.	
<b>LO 4.</b> Organize joint activities of the work team.	
<b>LO 5.</b> Ensure the quality of the work performed.	
<b>LO 6.</b> Influence compliance with environmental protection requirements.	
<b>LO 7.</b> Search, process and summarize information using modern information technologies.	
<b>LO 8.</b> Apply knowledge of reproduction and breeding of farm animals for effective management of the enterprise's economic activities.	
<b>LO 9.</b> Choose rational technologies for the procurement, production and storage of feed.	
<b>LO 10.</b> Provide standardized animal feeding.	
<b>LO 11.</b> Ensure optimal conditions for keeping farm animals and the microclimate of technological premises.	
<b>LO 12.</b> Apply the laws of economics, organization and management in the production and processing of livestock products.	
<b>LO 13.</b> Ensure parameters and carry out technological control of modern technologies for milk and beef production.	
<b>LO 14.</b> Ensure parameters and carry out technological control of modern technologies for pork production.	
<b>LO 15.</b> Ensure parameters and carry out technological control of poultry production.	
<b>LO 16.</b> Implement and use in practice scientifically based technologies for the production and processing of livestock products.	
<b>LO 17.</b> Develop and effectively manage technological processes for the processing of livestock products.	
<b>LO 18.</b> Carry out primary accounting of material assets, fixed assets, labor and its payment.	
<b>LO 19.</b> Ensure compliance with biological safety at enterprises for the production and processing of livestock products.	

<b>LO 20.</b> Apply international and national standards and practices in professional activities.	
<b>LO 21.</b> Know the main historical stages of the development of the subject area.	
<b>LO 22.</b> Determine the essence of physicochemical and biological processes that occur in the body of animals in normal and pathological conditions.	
<b>LO 23.</b> Analyze 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 operating animals of various classes and species.	
<b>LO 24.</b> Be able to use basic methods of microbiological and immunological diagnostics, interpret the results obtained to identify pathogenic agents, assess the state of the immune system and control infections in animals.	
<b>LO 25.</b> Monitor the causes of the spread of diseases of various etiologies and biological pollution of the environment with livestock waste, as well as materials and means for veterinary purposes.	
<b>LO 26.</b> Deeply understand the importance of national security, the preservation of Ukrainian statehood and the functioning of the institutions that protect it; demonstrate civic responsibility and active involvement in the processes of its maintenance, guided by the principles of value-oriented and ethical leadership in professional and public activities.	
<b>LO 27.</b> The ability to critically reflect on global challenges related to climate change, digitalization and social transformation, as well as apply digital tools to solve complex problems of sustainable development in a multicultural and democratic environment	
<b>8 – Resource provision for program implementation</b>	
<b>Human resources</b>	The scientific and pedagogical staff of the educational program meets the requirements of current legislation and licensing conditions. The implementation of the educational program involves scientific and pedagogical workers who are employees of Sumy National Agrarian University by their main place of work, have scientific degrees and academic titles. Also, 100% of teachers of professionally oriented disciplines have English at a level not lower than B2, which is confirmed by international certificates. Advanced training and internships of scientific and pedagogical staff are provided at least once every five years. The educational process is provided by specialized departments responsible for the training of higher education applicants.
<b>Material and technical support</b>	The material and technical support of the educational and professional program is provided by the use of specialized faculty and inter-faculty laboratories and classrooms (PCR analysis, Electron Microscopy,

	<p>Beekeeping Laboratory, Software Laboratory in the Agricultural Industry, Educational and Scientific Laboratory of Technology, Mechanization and Automation of Pig Farming "NOG SLAT", Innovative Module for Milk Production and Processing, Educational and Scientific Laboratory of Aquaculture AFISHE, SNAU NNPC, Educational and Scientific Laboratory of Feed and Animal Feeding Technology, Innovative Module of Virtual Reality and Robotics, Machine Milking Laboratory. The laboratories are equipped with computer workstations and unlimited access to the Internet. All necessary social and household infrastructure is available, the number of places in dormitories meets the requirements..</p>
<p><b>Information and educational and methodological support</b></p>	<p>The official website <a href="https://snau.edu.ua">https://snau.edu.ua</a> contains information about educational programs, educational, scientific and educational activities, structural divisions, admission rules, university contacts. All users registered at the university have unlimited access to the Internet.</p> <p>The SNAU Scientific Library <a href="http://library.snau.edu.ua">http://library.snau.edu.ua</a> provides access to electronic catalogs and an electronic library, world information resources, Ukrainian repositories and online libraries.</p> <p>The educational and professional program is provided with educational and methodological publications and developments of departments that provide scientific and educational support. The materials of educational and methodological support are set out in the program of the SNAU Distance Learning Center <a href="https://cdn.snau.edu.ua/moodle/">https://cdn.snau.edu.ua/moodle/</a> and in the repository of Sumy NAU <a href="http://repo.snau.edu.ua">http://repo.snau.edu.ua</a>. The library reading rooms are provided with free access to the Internet.</p> <p>The library has a sufficient number of textbooks, manuals, domestic and foreign professional periodicals. Reading rooms are provided with free access to the Internet. Materials for teaching and methodological support of the educational program are posted on the official website of the university <a href="http://www.snau.edu.ua">www.snau.edu.ua</a>, in the repository <a href="http://repo.snau.edu.ua">repo.snau.edu.ua</a> and on the distance learning platform <a href="https://cdn.snau.edu.ua/moodle/">cdn.snau.edu.ua/moodle</a>.</p>
<p><b>9 – Academic mobility</b></p>	
<p><b>National credit mobility</b></p>	<p>Possible on the basis of agreements on academic credit mobility with higher education institutions of Ukraine.</p>

	Transfer of credits obtained at other universities of Ukraine is allowed, provided that the level of training and competencies acquired by applicants correspond. The principles of academic mobility are determined by the legislation of Ukraine and the Regulations of the SNAU on Academic Mobility and Non-Formal Education.
<b>International credit mobility</b>	Possible on the basis of agreements on academic credit mobility with higher education institutions of other countries. Within the framework of the EU Erasmus+ program on the basis of bilateral agreements between Sumy NAU and educational institutions of partner countries.
<b>Education of foreign higher education applicants</b>	Training is provided for foreign higher education applicants.

## 2. List of components of the educational and professional program and their logical sequence

### 2.1. List of modules

Code n/a	Components of the educational program (study subjects, course projects (works), practices, qualification work)	ECTS	Control
<b>Compulsory educational components</b>			
EC 1.	Historical and philosophical studies	5	
EC 1.1	History	2,5	Exam
EC 1.2	Philosophy	2,5	Exam
EC 2.	Foreign language <sup>1</sup>	5	Test, exam
EC 3.	Citizenship education	5	Exam
EC 4.	Ukrainian language and academic writing <sup>2</sup>	5	Exam
EC 5	National Resilience Studies <sup>3</sup>		
EC 5.1	Psychological adaptation	3	Differentiated Test
EC 5.2	Sustainable development in the digital age	3	Differentiated Test
EC 6	Emergency protection	5	Differentiated Test
EC 7	Animal anatomy	5	Exam
EC 8	Veterinary control and ecology in animal husbandry	5	Exam
EC 9	Fundamentals of veterinary technological activities	5	Test
EC 10	Digital technologies in animal health	5	Exam
EC 11	Physiology	5	Exam

EC 12	Biochemistry	5	Exam
EC 13	Breeding and reproduction of farm animals	10	Test, Exam
EC 14	Rationing of feeding of farm animals	5	Exam
EC15	Sanitary and hygienic requirements for keeping animals	10	Test, Exam
EC 16	Economics, organization and management in animal husbandry	5	Exam
EC 17	Milk and beef production technology	10	Test, Exam
EC 18	Pork production technology	10	Test, Exam
EC 19	Poultry breeding	5	Exam
EC 20	Processing of livestock products	5	Exam
EC 21	Microbiology and Immunology	5	Exam
EC 22	Biosecurity in animal husbandry	5	Exam
EC 23	Organic and inorganic chemistry	5	Exam
EC 24	Cytology, histology and embryology	5	Exam
EC 25	Literature Search and Technology Writing	5	Exam
EC 26	Scientific research methodology	5	Test
EC 27	Internal diseases of animals	5	Test
EC 28	Professional English Course	5	Exam
EC 29	Biotechnology	5	Exam
EC 30	<i>Educational practice</i>	4	Test
EC 31	<i>Production practice</i>	5	Differentiated Test
EC 32	<i>Preparation and defense of the qualification work, certification exam</i>	5	Exam
<b>Total volume of compulsory OPP components</b>		<b>180</b>	
<b>Selective educational components<sup>4</sup></b>			
<b>General training cycle</b>			
S 1	Physical Education with selective activities*	5	Tests
S 2	Selective humanitarian discipline *	5	
S 3	Selective discipline 1*	5	
S 4	Selective discipline 2*	5	
<b>Professional training cycle</b>			
S 5	Selective discipline 3**	5	
S 6	Selective discipline 4**	5	
S 7	Selective discipline 5**	5	
S 8	Selective discipline 6**	5	
S 9	Selective discipline 7**	5	
S 10	Selective discipline 8**	5	
S 11	Selective discipline 9**	5	
S 12	Selective discipline 10**	5	
<b>The total volume of selective components</b>		<b>60</b>	
<b>General scope of the educational program</b>		<b>240</b>	

#### Notes

1. The mandatory component of general training EK4 Foreign Language for higher education applicants – citizens of the PRC is implemented as the educational component "Language training for a professional direction"

2. The mandatory component of general training EK2 Ukrainian language and academic writing for higher education applicants – citizens of the PRC is implemented as the educational component OK2 Ukrainian language

3. The mandatory component of general training EK5 National Resilience Studies for higher education applicants from among foreign citizens is implemented as the educational component EK5 Psychological Adaptation.

4. Elective components of the educational and professional program are chosen by higher education applicants for a total of 60 credits in accordance with the recommendations for organizing the study of free choice academic disciplines:

\* Elective components S 1 – S 4 are chosen from the proposed list of the university catalog for a total of 20 credits;

\*\* Elective components S 5 – S 12 are chosen from the proposed list of elective components of professional (specialized) training for EPP for a total of 40 credits.

### **Elective Components**

#### **General Education Cycle**

1. Physical Education
2. English Language
3. University-wide Course
4. University-wide Course

#### **Professional Training Cycle**

5. Pathology
6. Clinical Diagnosis of Animal Diseases
7. Veterinary Pharmacology
8. Veterinary Surgery
9. Veterinary Obstetrics and Gynecology
10. Veterinary Parasitology
11. Epizootology and Infectious Diseases
12. Veterinary Professional Terminology
13. Zoology with Fundamentals of Veterinary Arachnoentomology
14. Animal Health Protection
15. Physiotherapy and Physical Prophylaxis
16. Veterinary Epidemiology
17. Diseases of Small Companion Animals
18. Diseases of Honey Bees
19. Poultry Diseases
20. Diseases of Swine
21. Embryo Engineering Biotechnology
22. Prevention of Animal Diseases
23. Standardization of Livestock Products

24. International Standards of Animal Welfare and Safety
25. Feed and Biologically Active Additives in Intensive Livestock Production
26. Machinery and Mechanisms of Production Processes in Livestock and Processing Industries
27. Molecular Biology
28. Design and Construction of Enterprises for the Production and Processing of Livestock Products

\*From the list provided, the student chooses 12 disciplines.\*.

**Note.**

*The above list of elective educational components may be supplemented. The current list of elective disciplines is formed and updated taking into account the needs of the labor market, proposals from employers, higher education applicants and other stakeholders, the results of monitoring the educational program, is published on the official website of the university and approved by the Council for Ensuring the Quality of Educational Activities and the Quality of Higher Education of the SNAU in accordance with the established procedure.*

## **2.2. Structural and logical scheme of EPP**

A brief description of the logical sequence of studying the components of the educational program.

Students have the right to choose academic disciplines within the limits provided by the relevant educational program and work curriculum, in the amount of at least 25 percent of the total number of ECTS credits provided for this level of advanced education. At the same time, applicants of a certain level of higher education have the right to choose academic disciplines offered for other levels of higher education in accordance with the Regulation on the Organization of the Study of Academic Disciplines of Free Choice of Students (SNAU, 2020).

### Structural and logical scheme of training

Code of the subject	name of subject	I year 24–25		II year 25–26		III year 26–27		IV year 27–28	
		semesters							
		1	2	3	4	5	6	7	8
<b>1. Compulsory educational components</b>									
<b>1.1. Educational disciplines of general and fundamental training</b>									
EC 1.	Historical and philosophical studies	•	•						
EC 2.	Foreign language	•	•						
EC 3.	Citizenship education		•						
EC 4.	Ukrainian language and academic writing	•							
EC 5.	National Resilience Studies:								
EC 5.1	Psychological adaptation			•					
EC 5.2	Sustainable development in the digital age			•					
EC 6.	Emergency protection		•						
EC 7.	Animal anatomy	•	•						
<b>1.2. Educational disciplines of special (professional) training</b>									
EC 8.	Veterinary control and ecology in animal husbandry	•							
EC 9.	Fundamentals of veterinary technological activities	•							
EC 10.	Digital technologies in animal health							•	
EC 11.	Physiology				•				
EC 12.	Biochemistry				•				
EC 13.	Breeding and reproduction of farm animals					•	•		
EC 14.	Rationing of feeding of farm animals					•	•		
EC 15.	Sanitary and hygienic requirements for keeping animals						•		
EC 16.	Economics, organization and management in animal husbandry				•				
EC 17.	Milk and beef production technology							•	•
EC 18.	Pork production technology							•	•
EC 19.	Poultry breeding					•			



### **3. Form of Attestation of Higher Education Applicants**

Attestation of graduates of the educational and professional program in specialty H2 “Animal Science” is carried out in the form of a public defense of a qualification paper and an attestation examination and is completed by issuing a state-recognized diploma awarding the Bachelor’s degree with the qualification: Bachelor in Animal Husbandry.

#### **Requirements for the Qualification Paper**

The qualification paper shall involve solving a complex specialized task or a practical problem in the production or processing of livestock products, characterized by complexity and uncertainty of conditions, using theories and methods of biology and applied sciences. The qualification paper must not contain academic plagiarism, falsification, or fabrication. The qualification paper must be published in the institutional repository of Sumy National Agrarian University.

The attestation examination provides for the assessment of learning outcomes defined by the educational program and is conducted in written form.

Attestation is carried out openly and publicly.

**4. Matrix of Compliance of Program Competencies with the Components of the Educational Program**

	EC1	EC2	EC3	EC4	EC5.1	EC5.2	EC6	EC7	EC8	EC9	EC10	EC11	EC12	EC13	EC14	EC15	EC16	EC17	EC18	EC19	EC20	EC21	EC22	EC23	EC24	EC25	EC26	EC27	EC28	EC29	EC30	EC31	EC32		
GC1			•		•																														
GC2	•																																		
GC3																																		•	•
GC4										•																									•
GC5					•		•																												
GC6	•		•	•																														•	•
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