MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY
FACULTY OF VETERINARY MEDICINE
DEPARTMENT OF EPIZOOTOLOGY AND PARASITOLOGY

WORK PROGRAM

(SYLLABUS)

EDUCATIONAL COMPONENT

No. 37 PRODUCTION PRACTICE (Episootology and infectious diseases)

Implemented within the educational program "VETERINARY MEDICINE"

in specialty 211 "VETERINARY MEDICINE"

at the second (master's) level of higher education

Sumy – 2025

Developers:

Oksana KASIANENKO, Doctor of Historical Sciences, Professor,

Head of the Department of Epidemiology and Parasitology

Halyna RUBLENKO, PhD, associate professor, Associate Professor of the Department of Epidemiology and Parasitology

Reviewed, approved and ratified at the meeting of the Department of Epidemiology and Parasitology	Protocol № 17 dated 12/06/2025.
	Head of the Department Oksana KASIANENKO

Agreed:

Guarantor of the educational program Oleksandr CHEKAN

Dean of the Faculty,
where the educational program is implemented Lyudmila Nagorna

Review of the work
program (attached) provided by: Oksana SHKROMADA

Roman PETROV

Methodologist of the Department of Educational Quality,
licensing and accreditation

Svitlana Kotlevets

Registered in the electronic database: date: 26.08.2025

Information on reviewing the work program (syllabus):

Educationalthe year in which changes are being made	Number of the appendix to the work program with a description of the changes	Changes reviewed and approved		
		Date and number of the meeting minutes departments	Head of the Department	Educational program guarantor

<table>
<tr><th colspan="8">GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT</th></tr>
<tr><td>1.</td><td>Name OK</td><td colspan="6">Production practice</td></tr>
<tr><td>2.</td><td>Faculty/
chair</td><td colspan="6">Faculty of Veterinary Medicine,
Department of Epidemiology and Parasitology</td></tr>
<tr><td>3.</td><td>Status OK</td><td colspan="6">Mandatory</td></tr>
<tr><td>4.</td><td>Program/Specialty(s) that include OK for mandatory OK</td><td colspan="6">Educational and professional program "Veterinary Medicine". Second master's level of higher education in specialty 211 "Veterinary Medicine"
Fields of knowledge Veterinary medicine
Qualification: Doctor of Veterinary Medicine</td></tr>
<tr><td>5.</td><td>NQF level</td><td colspan="6">Level 7</td></tr>
<tr><td>6.</td><td>Semester and duration study</td><td colspan="6">Full-time: 10th, 11th semester, 10 weeks</td></tr>
<tr><td>7.</td><td>Number of credits ECTS</td><td colspan="6">?</td></tr>
<tr><td rowspan="3">8.</td><td rowspan="3">Total hours and their distribution</td><td colspan="2">Contact work (classes) full-time</td><td colspan="4">Independent work</td></tr>
<tr><td>Lectures</td><td>Practical /seminar</td><td colspan="2">Laboratory</td><td>Daily</td><td>Correspondence</td></tr>
<tr><td></td><td></td><td colspan="2"></td><td></td><td>-</td></tr>
<tr><td>9.</td><td>Language of instruction</td><td colspan="6">Ukrainian</td></tr>
<tr><td>10.</td><td>Teacher/Coordinator educational component</td><td colspan="6">Doctor of Historical Sciences, Professor Kasyanenko O.I.
PhD, associate professor Rebenko G.I.</td></tr>
<tr><td>10.1</td><td>Contact information</td><td colspan="6">Room 81 of the Department of Epidemiology and Parasitology.
Monday from 10:00 a.m. to 2:00 p.m.</td></tr>
<tr><td>11.</td><td>General description of the educational component</td><td colspan="6">Completion of industrial practice is an important component of the educational process and is aimed at students mastering a system of professional skills and abilities, as well as mastering primary experience of professional activity and should contribute to the self-development of the student.</td></tr>
<tr><td>12.</td><td>Purpose of the educational component</td><td colspan="6">The main goal is to acquire practical skills, form competencies, obtain professional skills and abilities, through deepening, supplementing and consolidating theoretical and practical knowledge and skills obtained in the process of theoretical training in disciplines, acquiring practical skills in production conditions on issues of biological contamination by pathogens of infectious animal diseases, methods and measures of general and specific prevention of infectious animal diseases; measures to control and eliminate infectious animal diseases;consolidate theoretical knowledge and acquired practical skills in carrying out preventive anti-epizootic measures and organizing health measures for infectious diseases of animals and poultry.</td></tr>
<tr><td>13.</td><td>Prerequisites for studying OK:</td><td colspan="6">The educational component is based on the following disciplines:</td></tr>
</table>

13.1	Connection with other educational components of the OP	"Episootology and Infectious Diseases", "Veterinary Microbiology and Immunology", "Veterinary Virology", "Pathological Anatomy and Autopsy".
13.2	Logistics and technical support for the implementation of the OK	Requirements for the practice base: **Equipment:**Personal protective equipment (gown or overalls; cap, shoe covers; rubber gloves; protective mask (respirator), safety glasses or transparent shield, microscope; centrifuge; kit for bacteriological and serological studies (culture media, test systems); reagents for microscopy (stains, fixatives), alcohol, veterinary first aid kit; portable refrigerator container (for transporting samples); **Tools:**microscopes,veterinary thermometer; spatula, tweezers; test tubes, samplers for pathological material; syringes of various volumes, needles, blood collection systems; disinfectant wipes, scalpels, tweezers, scissors, pipettes (dispensers), loops for sample collection, microscopy slides (slides, coverslips), containers for biomaterial with labeling; disinfectants for hands, tools, work surface. Chemical reagents: dyes for preparing smears (e.g., hematoxylin, eosin), solutions for fixing and preserving samples, disinfectants. **Educational materials:**nEpizootology textbooks(general and special epizootology), instructions for the prevention and control of major infectious diseases of animals, state instructions of the State Service for Food and Consumer Protection of Ukraine on conducting diagnostic and preventive measures; State instructions of the State Service for Food and Consumer Protection of Ukraine on conducting diagnostic and preventive measures, handbooks on modern diagnostic methods (PCR, ELISA, express tests). Practice diary (sample approved by the university), notebook for records (clinical observations, laboratory data, epizootological maps), protocol forms (clinical examination, autopsy, material collection), epizootological schemes and maps (for drawing disease outbreaks, routes of spread of pathogens).
14.	Academic Integrity Policy	If a candidate submits another candidate's work as their own, such work is canceled and re-done. In the case of plagiarism - re-submission of the corresponding assignment. In the case of using text borrowings without proper citation (academic plagiarism) - the work is canceled.
15.	Link to the course in Moodle system	

LEARNING OUTCOMES BY EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH PROGRAM LEARNING OUTCOMES

Learning outcomes for OK: After studying the educational component, the student is expected to be able to	Program learning outcomes that the OK is aimed at achieving (indicate the number according to the numbering given in the profile) OP)3				How is RND4 assessed?
	PRN 4	PRN 5	PRN 6	PRN 8	
DRN 1. Collect anamnestic data during registration and examination of animals, make decisions regarding the selection of effective methods of diagnosis, treatment and prevention of animal diseases.	x				Case study and situation analysis
DRN 2. Interpret clinical manifestations of diseases, analyze the results of laboratory tests, establish a cause-and-effect relationship between them, and draw reasonable conclusions for diagnosis.		x			Participation in focus groups, simulation exercises
DRN 3. Develop and justify quarantine and health measures, apply modern methods of diagnosis, therapy, prevention and treatment of animals with infectious etiology, taking into account biosafety and veterinary and sanitary requirements.			x		Case study and situation analysis: justification of the choice of control and prevention methods.
DRN 4. Monitor the causes of the spread of animal diseases of various etiologies and assess the risks of biological contamination of the environment with livestock waste, materials and veterinary products in order to develop biosafety and prevention measures.				x	Case method(analysis of a specific situation in livestock farming); Practical tasks(development of a monitoring plan or a scheme of preventive measures);
DRN 5. Prepare and defend an internship report in accordance with the requirements	x	x	x	x	Presentation report internship report

CONTENT OF THE EDUCATIONAL COMPONENT (COURSE PROGRAM)

Topic. List of issues that will be considered within the scope of practical training in the discipline "Episootology and Infectious Diseases"	Distribution within the overall time budget						Recommended reading
	Classroom work				Independent work		
	Luke		P.z/semi.z				
	daytime	absenteeism	daytime	absenteeism	daytime	absenteeism	
*Topic 1.*Research into the epizootic state of the farm and planning of anti-epizootic measures (familiarization with methods of assessing the epizootic situation; participation in the preparation and implementation of a plan of preventive and liquidation measures)						6	Textbooks,manuals: 1–5, 7, 10 Methodological support: 13, 14; Other sources:17, 18
*Topic 2.*Clinical examination of animals and epizootological examination of the farm (application of allergic, serological, bacteriological, hematological and other methods of diagnosing infectious animal diseases).						6	Textbooks,manuals: 1–5, 8, 9 Methodological support: 13, 15; Other sources:17, 18
*Topic 3.*Routine diagnostic tests and preventive vaccinations ((conducting research on tuberculosis, leukemia, brucellosis; participating in animal vaccination; drawing up relevant acts)						6	Textbooks,manuals: 1–5 Methodological support: 13, 16; Other sources:15, 16
*Topic 4.*Quarantine measures and elimination of infectious diseases (organization of isolation of sick animals; disposal of corpses)						6	Textbooks,manuals: 1–6, Methodological support: 13, 14; Other sources:17, 18
*Topic 5.*Disinfection, disinsection and deratization in animal husbandry (disinfection of premises, equipment and care items; preparation of acts and analysis of the effectiveness of measures).						6	Textbooks,manuals: 1, 2, 6, 8 Methodological support: 13, 14, 15 Other sources:17, 18
*Topic 6.*Documentary support for veterinary activities, preparation of accompanying documents for biological material; keeping records of diagnostic tests and vaccinations.							Textbooks,manuals: 1–6, Methodological support: 13, 14; Other sources:

							17, 18
*Topic 7.*Organization of the veterinary service system in animal husbandry (functional responsibilities of a veterinarian and reporting documentation).							Textbooks,manuals: 1–6, Methodological support: 13, 14; Other sources: 17, 18
Total							

TEACHING AND LEARNING METHODS

DRN	**Teaching methods**(work that will be carried out by the teacher during consultations)	**Numberhours**	**Teaching methods**(what types of learning activities should the student perform independently)	**Number of hours***
DRN 1. Collect anamnestic data during registration and examination of animals, make decisions regarding the selection of effective methods of diagnosis, treatment and prevention of animal diseases.	Conducting safety briefings when working with animals, biological and pathological material; using special devices, instruments, laboratory equipment and other technical means, reagents.		The student must apply teaching methods according to the nature of the logic of cognition (analytical, synthesis methods, inductive method,deductive method, translational method). The student must independently generate an opinion while completing practice tasks, solving situational problems, disputes, discussions, and working in a team.	-
DRN 2. Interpret clinical manifestations of diseases, analyze the results of laboratory tests, establish a cause-and-effect relationship between them, and draw reasonable conclusions for diagnosis.	Conducting the selection, packaging, fixation and shipment of samples of biological material for laboratory research.		The student must apply teaching methods according to the nature of the logic of cognition (analytical, synthesis methods, inductive method,deductive method, translational method). The student must independently generate an opinion while completing practice tasks, solving	6

			situational problems, disputes, discussions, and working in a team.	
DRN 3. Develop and justify quarantine and health measures, apply modern methods of diagnosis, therapy, prevention and treatment of animals with infectious etiology, taking into account biosafety and veterinary and sanitary requirements.	Conducting safety briefings when working with animals, biological and pathological material; using special devices, instruments, laboratory equipment and other technical means, reagents.		The student must apply teaching methods according to the nature of the logic of cognition (analytical, synthesis methods, inductive method,deductive method, translational method). The student must independently generate an opinion while completing practice tasks, solving situational problems, disputes, discussions, and working in a team.	6
DRN 4. Monitor the causes of the spread of animal diseases of various etiologies and assess the risks of biological contamination of the environment with livestock waste, materials and veterinary products in order to develop biosafety and prevention measures.	Conducting safety briefings when working with animals, biological and pathological material; using special devices, instruments, laboratory equipment and other technical means, reagents.	-	The student must apply teaching methods according to the nature of the logic of cognition (analytical, synthesis methods, inductive method,deductive method, translational method). The student must independently generate an opinion while completing practice tasks, solving situational problems, disputes, discussions, and working in a team.	6
DRN 5. Prepare and defend an internship report in accordance with the requirements	Clarification of the structure and requirements for preparing a report on industrial practice; individual consultations on the preparation of text, photo and video materials; discussion of examples of correctly compiled reports, analysis of typical errors; provision of recommendations on finding and using regulatory and reference literature; conducting training/mini-		The student must apply teaching methods according to the nature of the logic of cognition (analytical, synthesis methods, inductive method,deductive method, translational method). The student must independently generate an opinion while completing practice tasks, solving situational problems, disputes, discussions, and	

	presentations on the technique of defending a report (how to answer questions, how to structure a speech); formation of individual tasks to check the student's degree of readiness for defense.		working in a team.	

EVALUATION BY EDUCATIONAL COMPONENT (SUMMATIVE ASSESSMENT)

No.	Summative assessment methods	Points/Weight in overall score	Date of compilation
1.	Preparation of documents for internship (internship diary) and briefing on occupational safety and health	10 points/10%	1st week
2.	Implementation of the internship program. Collection of material for writing a report on industrial internship in the section "Episootology and Infectious Diseases".	30 points/30%	During the internship
3.	Writing and preparing a report on the practical training. The student prepares a report based on the practical training diary at the end of the practical training period; The report summarizes the results of the work carried out in the discipline "Episootology and Infectious Diseases", obtained by the student in the process of completing the tasks of industrial practice with a full analysis of the results obtained and conclusions; In the conclusions, formulate your own opinion on the fundamental positive or negative facts of the organization of production processes in the livestock sector, which have a direct impact on the well-being of animals with regard to invasive diseases.	35 points/35%	Last week
4.	Presentations, answers and joint reports discussion	25 points/25%	Upon completion of the internship
	Total	points	

EVALUATION BY THE EDUCATIONAL COMPONENT (ASSESSMENT CRITERIA)

Component	Unsatisfactorily	Satisfactorily	Good	Perfectly
Designdocuments for internship and briefing on occupational safety and health (internship diary)	***0 points***	***1-7 points***	***7-9 points***	***10 points***
	The diary is missing and the presence of other control objects is not taken into account. An overall negative assessment is given for completing the internship.	Diaryis drawn up in violation of the established requirements, does not contain the information provided for therein (in particular, regarding the content of the tasks performed).	The diary generally contains appropriate information, but is designed in violation of established requirements.	The diary is properly formatted and contains complete information about the intern's activities.
Program execution practices.	***0 points***	***1-15 points***	***16-26 points***	***27-30 points***
	The higher education applicant systematically violated the established deadlines for completing tasks. The requirements for the internship program have not been met.	The higher education applicant did not adhere to the internship schedule. Most of the requirements were met, but some points of the internship content were missing or not sufficiently disclosed.	The higher education applicant generally adhered to the internship schedule, but allowed deviations from the recommendations, while fulfilling all the requirements of the internship program.	The higher education applicant strictly adhered to the internship schedule. He conscientiously and on time fulfilled all the requirements of the internship program. He proposed his own solution to the assigned tasks, demonstrated activity, purposefulness, and creativity.
Writing and preparing an internship report	***0 points***	***1-15 points***	***16-29 points***	***30-35 points***
	The report does not meet the established requirements for content, does not contain proper information about the content, form, and organization of activities carried out during the internship, and contains gross errors in content.	The internship program was completed satisfactorily, its results are reflected in the report, which contains certain inaccuracies or does not contain important information, or there are other significant comments regarding the content of the report.	The report generally covers the necessary information provided by the requirements, contains a high positive assessment of the manager, however, there are minor comments. From the content, it can be concluded that the internship program was completed in full and properly. in a way.	The report contains all the necessary information regarding the organization process and the results of the internship. The internship program was completed fully and properly.
Report-presentation of the internship report	***0 points***	***1-9 points***	***10-20 points***	***21-25 points***
	If there is a negative characteristic of the supervisor from the practice base or the supervisor from the department, a positive assessment of the practice is impossible. If the higher education applicant has not completed the practice program at least at one of the stages of the practice and received 0 points for the corresponding report, then the points received for other reports are not taken into account, and an overall negative assessment is given based on the results of the practice.	The higher education applicant does not provide satisfactory answers to the questions posed, is not familiar with the internship program or its individual parts, or makes gross errors that allow us to conclude that the internship program was not completed or was not properly completed, indicating the lack of real results of the internship and the acquired practical skills and abilities.	The higher education applicant demonstrates appropriate knowledge, is mostly oriented towards the content of the submitted report and the internship program, however, there are some inaccuracies in the answers to the questions.	The higher education applicant demonstrates appropriate knowledge, is fluent in the content of the submitted report and the internship program as a whole, thereby confirming its completion; provides correct and reasoned answers to all questions from the internship program.

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EVALUATION BY EDUCATIONAL COMPONENT (FORMATIVE ASSESSMENT)

No.	Elements of normative assessment	Date
1	Verbal feedback from practice managers and education seekers.	During the training internship in parasitology and invasive animal diseases
2	Review and discussion of the educational report by the supervisor and the student internship in parasitology and invasive animal diseasespractices.	After the end of the academic term internship in parasitology and invasive animal diseases
3	Oral feedback on the internship report.	After defending the internship report.

EVALUATION BY THE EDUCATIONAL COMPONENT (RATING SCALE (ESTS)

On a scale ECTS	On a 100-point scale	On a national scale	Definition*
AND	90-100	perfectly	***perfectly***– excellent performance with a small number of inaccuracies
B	82-89	good	***very good***– above average with a few minor errors
C	75-81		***good***– overall, the work was done correctly with a small number of errors
D	69-74	satisfactorily	***satisfactorily***– not bad, but with a significant number of shortcomings
E	60-68		***enough***– performance meets minimum criteria
FX	35-59	unsatisfactory with the possibility of reassembly	***unsatisfactorily***– you need to work before you get a positive assessment
F	0-34	unsatisfactory with mandatory retake	***unsatisfactory*** **–**serious follow-up work with re-study of the course is needed

EDUCATIONAL RESOURCES (LITERATURE)

5.1. Main sources

6.1.1. Textbooks, manuals

1. Anti-epizootic measures in animal husbandry: a textbook / V.Yu. Kassich, O.I. Kasyanenko – Sumy: FOP Tsoma S.P., 2024. – 258 p. (Approved by the Academic Council of the SNAU, Protocol No. 6 dated "04" November 2022).

2. Veterinary public health care: textbook / O.I. Kasyanenko, – Odesa, Oldi+, 2024. – 144 p. bibliography 10. (Approved by the Academic Council of the Ukrainian National Academy of Sciences, Protocol No. 18 of May 29, 2023).

3. Veterinary technologies for the prevention of infectious diseases of animals: a textbook / V.Yu. Kassich, O.I. Kasyanenko, G.I. Rebenko, S.M. Kasyanenko – Sumy: FOP Tsoma S.P., 2024. – 280 p. bib. 10. (Approved by the Academic Council of the SNAU, Protocol No. 10 of "27" February 2024).

4. Natural focal infectious diseases in Ukraine: a textbook / O.I. Kasyanenko, V.Yu. Kassich, G.I. Rebenko – Sumy: FOP Tsoma S.P., 2024. – 150 p.

5. Special epizootology: textbook / A.F. Karysheva, – Kyiv: Higher Education, 2002, 701

6. Kassich V.Yu. Epizootology and infectious diseases. Special epizootology. "Fighting zoonoses as the basis of biological security of Ukraine". Methodological manual for students of specialties 211 – "Veterinary medicine", 212 – "Veterinary hygiene and expertise". Educational degree "master". Sumy, 2020.

7. Kysterna O.S., Rebenko G.I. Veterinary pharmacology. Immunobiological drugs. Rules for use. Textbook. Sumy. 2020. 160 p.

8. Nedosekov V.V. International classification of diseases and especially dangerous infections of animals (textbook for the lecture course on the discipline "Episootology and infectious diseases" / V.V. Nedosekov, V.V. Makarov // NUBiP: Kyiv, 2010. – 120 p.

9. Sapronous infectious diseases / L.E. Kornienko, V.V. Nedosekov, V.O. Busol and others; ed. L.E. Kornienko, V.O. Busol. – Bila Tserkva, 2010. – 306 p.

10. Chronic infectious diseases of animals / L.E. Kornienko, V.O. Busol, V.V. Nedosekov and others; ed. V.O. Busol, L.E. Kornienko. – Bila Tserkva, 2009. – 291 p.

11. Electronic training manual "Viral diseases of pigs"

http://109.251.248.132/MyWeb/manual/vetmed/virysni_xvor_svuney/Golovna/Golo vna.htm

12. Electronic training manual "Bacterial diseases of pigs"

http://109.251.248.132/MyWeb/manual/vetmed/bakter_xvor_svuney/golovna/Golov na.htm

Methodological support

13. Methodological instructions for the implementation of the industrial practice program. Industrial practice program. specialty "Veterinary Medicine" educational degree "Master" / Sumy, 2025, 61. p.

14. Kasyanenko O.I. Animal health protection. Methodological guidelines for independent work for students of the Faculty of Veterinary Medicine, specialty 211 "Veterinary Medicine" with a master's degree / Sumy, 2022, 24 p.

15. Kasyanenko O.I., Lui Mingchen Streptococcal infection of pigs (etiology, epidemiology, laboratory diagnostics, prevention and control measures).Scientific and practical recommendationsspecialty 211 "Veterinary Medicine", Sumy: SNAU, 2023, 27 p.*(Approved by the Academic Council of the SNAU, Protocol No. 18 of May 29, 2023).*

16. Kasyanenko O.I. Zoonoses of domestic animals. Methodological instructions for conducting laboratory and practical classes and independent work for students of the Faculty of

Veterinary Medicine, specialty 211 "Veterinary Medicine"educational degree "Master" / Sumy, 2022, 29 p.

6.3. Other sources

17. Practical course on general epizootology: a textbook. Edited by Dr. Vet. Sciences, Professor V.V. Nedosekov. K. 2011. 189 p.

18. Rebenko G.I. Dictionary of terms of general epizootology: a textbook. Sumy. 2010. 115p.

6.4. Additional sources

Department of Food Safety and Veterinary Medicine website:http://www.consumer.gov.ua/ContentPages/Pro_Departament/51/

OIE website:http://www.oie.int/

State Food and Consumer Protection Service websitehttp://www.consumer.gov.ua

6.5.Software

Computers with software for practical work
Microsoft PowerPoint – Data Visualization MicrosoftPower BI – Data Analytics and Visualization

Multimedia projector, flipchart and screen;

Moodle distance learning and monitoring system