

Ministry of Education and Science of Ukraine
Sumy National Agrarian University
Faculty of Veterinary Medicine
Department of Epizootology and Parasitology

Work program (syllabus) of the educational component

professional selective discipline 9
(Veterinary services for poultry farming)

optional _____

(mandatory / optional)

It is implemented within the educational program

"Veterinary Medicine"

(name)

in specialty 211 "Veterinary Medicine"

(code, name)

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

Sumy - 2024

Developer: *O.L. Kasianenko* Kasianenko O.I., doctor of science, professor
Head of the Department of Epizootology and Parasitology
(signature) (surname, initials) (academic degree and rank, position)

Considered, approved and approved at the meeting of the Department of Epizootology and Parasitology (name of department)	protocol dated June 5, 2024 No. 11	
	Head department	<u><i>O.L. Kasianenko</i></u> (signature) Kasianenko O.I. (surname, initials)

Agreed:

Guarantor of the educational program *R.V. Petrov* Petrov R.V.
(signature) (surname)

Dean of the faculty where the educational program is implemented

O.L. Nechiporenko Nechiporenko O.L.
(signature) (surname)

Review of the work program (attached) provided:

O.I. Pucobanov
(surname)
O.I. Ushakov
(surname)

Methodist of the Education Quality Department,
licensing and accreditation *I. Kozlov* Kozlov I.
(signature) (surname)

Registered in the electronic database: date: 19.06. 2024.

Information on viewing the work program (syllabus):

The academic year in which the changes are made	The number of the annex to the work program with a description of the changes	The changes were reviewed and approved		
		Date and number of the protocol of the meeting of the department	Head of Department	Guarantor of the educational program

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	The name is OK	professional selective discipline 5 (Veterinary care of animals by species)			
2.	Faculty/department	Faculty of Veterinary Medicine / Department of Epizootology and Parasitology			
3.	The status is OK	Selective OP component			
4.	Program/Specialty (programs), which is a component of the OK for (to be filled in for mandatory OKs)				
5.	OK can be offered for (to be completed for selective OKs)	"Veterinary hygiene, sanitation and expertise"			
6.	NRK level	7th level			
7.	Semester and duration of study	8th semester, 18 weeks			
8.	Number of ECTS credits	5.0			
9.	The total number of hours and their distribution	Contact work (class)			Independent work
		Lectures	Practical/seminar	Laboratory	
		-	-	4	146
10.	Language of education	Ukrainian			
11.	Teacher/Coordinator of the educational component	Head of the department, doctor of science, professor Kasyanenko O.I.			
11.1	Contact Information	Corp. 3, room 81, Phone: +8(096) 069 09 02; viber +8(095) 615 39 02 oksana_kasjanenko@ukr.net			
12.	General description of the educational component	The educational component is related to the general objectives of the OP and covers the aspects on which the veterinary foundations of providing veterinary services for productive poultry are based. The study of the discipline strengthens the main component "Ethology and animal welfare" and provides additional in-depth knowledge on veterinary support of poultry farming based on a comprehensive assessment of the system of veterinary and sanitary measures in poultry farming and the diagnosis, treatment and prevention of poultry diseases in production conditions.			
13.	The purpose of the educational component	The purpose of the educational component is the formation of students' abilities dynamically combine knowledge, skills, communication skills, to solve complex problems during professional activities and use methods of prevention, diagnosis, and treatment of productive poultry for infectious diseases and introduce innovative technologies into professional activity.			
14.	Prerequisites for studying OK, connection with other educational components of OP	The educational component is based on the study of OK: Hygiene and sanitation, Ethology and animal welfare, Genetics, Physiology of animals			

15.	Policy of academic integrity	Any manifestations of academic dishonesty are not allowed during the study of OK.If a violation of academic integrity is detected (writing off, academic plagiarism), the completed task is not counted and sent for re-execution.Systems are tools for countering violations of academic integrity Plagiarism check algorithm .In the event of violations, the response takes place in accordance with the regulatory documentation regarding the academic integrity of the participants of the educational process at the Sumy NAU (https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/).
16.	Link to the course in the Moodl system	https://cdn.snau.edu.ua/moodle/course/view.php?id=5093

2. LEARNING RESULTS UNDER THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH PROGRAM LEARNING OUTCOMES

Study results for EK: After studying the educational component, the student is expected to be able to..."	How RND is estimated
CRE 1. Define and apply the system of veterinary and sanitary measures in the conditions of poultry farms.	Rating control according to the 100-point rating scale of the ECTS. Multi-criterion evaluation of the current work of higher education applicants: survey of theoretical questions, evaluation of the level of knowledge demonstrated in laboratory-practical classes; multiple choice test; independent processing of the topic as a whole or individual issues of independent work of students of higher education (test results, preparation of presentations, presentation report of independently processed material). Activity is taken into account during the discussion of the issues brought to class; express control during classroom classes. During the current and final control, scientific publications prepared by the acquirer and published in collections, which are included in professional publications and/or conference materials, are taken into account in the process of evaluation of the DRN.
CRE 2. Define and apply veterinary support for poultry farming in the conditions of personal peasant farms.	Rating control according to the 100-point rating scale of the ECTS. Multi-criterion evaluation of the current work of higher education applicants: survey of theoretical questions, evaluation of the level of knowledge demonstrated in laboratory-practical classes; multiple choice test; independent processing of the topic as a whole or individual issues of independent work of students of higher education (test results, preparation of presentations, presentation report of independently processed material). Activity is taken into account during the discussion of the issues brought to class; express control during classroom classes. During the current and final control, scientific publications prepared

	by the acquirer and published in collections, which are included in professional publications and/or conference materials, are taken into account in the process of evaluation of the DRN.
CRE 3. Identify risks, develop and implement measures for diagnosis, prevention, and treatment of infectious diseases of productive poultry.	Rating control according to the 100-point rating scale of the ECTS. Multi-criterion evaluation of the current work of higher education applicants: survey of theoretical questions, evaluation of the level of knowledge demonstrated in laboratory-practical classes; multiple choice test; independent processing of the topic as a whole or individual issues of independent work of students of higher education (test results, preparation of presentations, presentation report of independently processed material). Activity is taken into account during the discussion of the issues brought to class; express control during classroom classes. During the current and final control, scientific publications prepared by the acquirer and published in collections, which are included in professional publications and/or conference materials, are taken into account in the process of evaluation of the DRN.

3. CONTENTS OF THE EDUCATIONAL COMPONENT (COURSE PROGRAM)

Topic. List of issues to be considered within the topic	Distribution within the general time budget			Recommended Books ¹	
	Auditory work		Independent work		
	Lk	P.z / semin. with			Lab. with.
Topic 1. System of veterinary and sanitary measures for poultry farms.				16	[4, 5, 9, 20]
Topic 2. Sanitary treatment of poultry facilities (disinfection, disinsection and deratization) and quality control of treatment.				14	[8, 11, 12, 22, 24]
Topic 3. Hygiene of keeping and feeding productive poultry.				14	[4, 19]
Topic 4. Operation of hatcheries. Selection and preparation of hatching eggs.				14	[4, 9, 10]
Topic 5. Movement of hatching and food eggs, day-old young, young and adult birds through the territory of Ukraine.				14	[4, 9, 10]
Topic 6. Infectious diseases of poultry (diagnosis, treatment and prevention).			2	16	[1, 2, 7, 11-18, 21, 25-27]
Topic 7. Invasive diseases of productive poultry (diagnosis, treatment and prevention).				14	[8, 21]

¹A specific source from the main or additional recommended literature

Topic 8. Parasitosis of productive poultry (diagnosis, treatment and prevention).				14	[8, 21]
Topic 9. Veterinary support for the production of poultry meat and edible eggs.			2	16	[4-6]
Topic 10. Veterinary service of productive poultry in personal peasant farms				14	[3, 9, 10]
In total	150		4	146	

4. TEACHING AND LEARNING METHODS

DRN	Teaching methods(work to be carried out by the teacher during classroom classes, consultations)	Number of hours	Teaching methods(what types of educational activities should the student perform independently)	Number of hours
CRE 1. Define and apply means and measures of animal health protection through ensuring the quality and safety of agricultural products.	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction.</p> <p>Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, interfaculty educational-scientific laboratory of electron microscopy).</p> <p>Demonstration of diagnostic research methods and results, illustration, observation.</p> <p>The use of technical means of learning and problem situations, excursions, classes at the factory, group studies, the use of educational and control tests).</p> <p>Use of multimedia technologies, electronic spreadsheets, application of the method of analysis of specific situations (case-study), dialogic teaching, part-time work of students (cooperation).</p>	2	<p>Rpackage with a book, lecture notes, educational and methodical literature (reading, retelling, writing, taking notes, making tables, graphs, reference notes).</p> <p>Acquaintance with information on official websites on the topic of the class or a separate issue (instructions on the prevention and elimination of infectious diseases).</p> <p>Memorization of theoretical material, observation.</p> <p>The student must apply learning methods based on the nature of the logic of knowledge (analytical, synthesis methods, inductive method, deductive method, traductive method).</p> <p>On the basis of the studied and processed material, independently generate an opinion during a theoretical survey, solving situational tasks, disputes, discussions, binary classes, business and role-playing games, group studies).</p> <p>Use multimedia technologies, dialogic learning, student cooperation (cooperation).</p>	48
CRE 2. Identify risks, develop and carry out measures aimed at protecting animals from zoonotic diseases.	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction.</p> <p>Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, interfaculty</p>		<p>Rpackage with a book, lecture notes, educational and methodical literature (reading, retelling, writing, taking notes, making tables, graphs, reference notes).</p> <p>Acquaintance with information on official websites on the topic</p>	50

	<p>educational-scientific laboratory of electron microscopy). Demonstration of diagnostic research methods and results, illustration, observation. The use of technical means of learning and problem situations, excursions, classes at the factory, group studies, the use of educational and control tests). Use of multimedia technologies, electronic spreadsheets, application of the method of analysis of specific situations (case-study), dialogic teaching, part-time work of students (cooperation).</p>		<p>of the class or a separate issue (instructions on the prevention and elimination of infectious diseases). Memorization of theoretical material, observation. The student must apply learning methods based on the nature of the logic of knowledge (analytical, synthesis methods, inductive method, deductive method, traductive method). On the basis of the studied and processed material, independently generate an opinion during a theoretical survey, solving situational tasks, disputes, discussions, binary classes, business and role-playing games, group studies). Use multimedia technologies, dialogic learning, student cooperation (cooperation).</p>	
<p>CRE 3. Define and apply means and measures for the protection of animal health through the rational use of antibacterial and ecologically safe drugs</p>	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction. Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, interfaculty educational-scientific laboratory of electron microscopy). Demonstration of diagnostic research methods and results, illustration, observation. The use of technical means of learning and problem situations, excursions, classes at the factory, group studies, the use of educational and control tests). Use of multimedia technologies, electronic spreadsheets, application of the method of analysis of specific situations (case-study), dialogic teaching, part-time work of students (cooperation).</p>	2	<p>Rpackage with a book, lecture notes, educational and methodical literature (reading, retelling, writing, taking notes, making tables, graphs, reference notes).</p> <p>Acquaintance with information on official websites on the topic of the class or a separate issue (instructions on the prevention and elimination of infectious diseases). Memorization of theoretical material, observation. The student must apply learning methods based on the nature of the logic of knowledge (analytical, synthesis methods, inductive method, deductive method, traductive method). On the basis of the studied and processed material, independently generate an opinion during a theoretical survey, solving situational tasks, disputes, discussions, binary classes, business and role-playing games, group studies). Use multimedia technologies, dialogic learning, student cooperation (cooperation).</p>	48

5. EVALUATION BY THE EDUCATIONAL COMPONENT

5.1.Diagnostic assessment (specified as necessary)

5.2.Summative assessment

5.2.1. To assess the expected learning outcomes, it is provided

No	Methods of summative assessment	Points / Weight in the overall assessment	Compilation date
	Thematic survey	20 points / 20%	Weekly
	Performance of tasks in laboratory-practical classes	20 points / 20%	According to the schedule
	Multiple choice test	40 points / 40%	During 7-8 weeks
	A report with a presentation on the topic of independent study of the discipline	20 points / 20%	According to the schedule

5.2.2. Evaluation criteria

Component ²	Unsatisfactorily	Satisfactorily	Fine	Perfectly ³
Thematic survey	<12 points	12-15 points	15-18 points	20 points
	The student can reproduce only individual fragments from the course.	Most of the requirements are met, but individual components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task have been fulfilled	All the requirements of the task were met, creativity, thoughtfulness was demonstrated, and an own solution to the problem was proposed
Performance of tasks in laboratory-practical classes	<12 points	12-15 points	15-18 points	20 points
	Task requirements not met	Most of the tasks were completed with using based on the main theoretical provisions, the student explains with difficulty the rules for solving laboratory-practical tasks. The performance of individual control tasks is significantly formalized, there is no deep understanding of the work	The student has mastered the basic material, and understands and performs laboratory-practical tasks, has suggestions regarding the direction of their solutions. Understands the main provisions that are decisive in the course, can solve similar tasks to those discussed with the teacher, but allows a small number of inaccuracies.	The applicant implements the theoretical material of the discipline while performing laboratory and practical work, is able to analyze and compare the results obtained on the basis of the knowledge, skills, and practical skills acquired from this discipline
Multiple choice	≤ 5 points	6–9 points	10–13 points	14–15 points

²Specify the summative assessment component

³Specify the distribution of points and the criteria determining the level of assessment

test	The student gives the correct answer to several questions (\leq 33% of correct answers).	The student has certain knowledge provided for in the discipline program, possesses the main provisions being studied and gives the correct answer to several questions (34-59% of correct answers).	In general, the student has a good command of the material, knows the main provisions of the material, and gives the correct answer to several questions (60–89% of correct answers).	The student demonstrates full and solid knowledge of the educational material in the amount corresponding to the discipline program, answers the test questions correctly (90–100% of correct answers).
Preparation and presentation report of self-developed material	<i><9 points</i>	<i>10-19 points</i>	<i>20-39 points</i>	<i>40–45 points</i>
	The student lacks complete understanding of the subject material. The student did not complete the independent processing of the material.	Despite the fact that the student completed the program of the academic discipline, but individual components were missing or insufficiently worked out, the student worked passively.	Knows the main provisions that are of decisive importance at performing independent work / individual tasks. Errors in the answers are not significant.	All requirements and tasks were fulfilled, creativity and thoughtfulness were demonstrated, and an own solution to the problem was proposed.

5.3. Formative assessment:

To assess the current progress in learning and understand the directions for further improvement is provided

No	Elements of formative assessment	Date
1	Verbal feedback after studying topics 1–3, 6–7	3 week
2	Written feedback after studying topics 4–5	8 week
3	Written feedback from the teacher while working on laboratory-practical tasks	Within 1 week of execution
4	Verbal feedback from the teacher after stories with a presentation on the topic of independent study of the discipline	During classes

6. EDUCATIONAL RESOURCES (LITERATURE)

Main sources

1. Law of Ukraine "On Veterinary Medicine". Available: <https://zakon.rada.gov.ua/laws/show/1206-20#Text>
2. Veterinary and sanitary requirements for keeping poultry in personal peasant farms. Available: <https://zakon.rada.gov.ua/laws/show/z0042-07#Text>
3. Veterinary and sanitary rules for poultry farms and requirements for their design. Available: <https://zakon.rada.gov.ua/laws/show/z0565-01#Text>.
4. Veterinary-sanitary rules for business entities (enterprises, shops) for poultry processing and production of egg products, rules for veterinary-sanitary examination of poultry eggs. Available: <https://zakon.rada.gov.ua/laws/show/z0849-01#Text>

5. Veterinary-sanitary rules for slaughterhouses, slaughter-sanitary points of farms and yard slaughter of animals. Available: <https://zakon.rada.gov.ua/laws/show/z0121-04#Text>
6. Determination of the sensitivity of microorganisms to antibacterial drugs. Methodical instructions. Available: <https://zakon.rada.gov.ua/rada/show/v0167282-07#Text>
7. State register of veterinary drugs, feed additives, ready feeds and premixes [Electronic resource] – Access mode http://vet.in.ua/menu/drugs.php?id_drugtype=7
8. The Law of Ukraine "On Provision of Sanitary and Epidemic well-being of the population". Available: <https://zakon.rada.gov.ua/laws/show/4004-12#Text>
9. Law of Ukraine "On the basic principles and requirements for the safety and quality of food products." Available: <https://zakon.rada.gov.ua/laws/show/771/97-%D0%B2%D1%80#Text>
10. The instruction "Veterinary disinfection, deodorization, disinfestation, disinfestation, deratization" was approved and approved by the scientific and methodical council of the State Department of Veterinary Medicine of the Ministry of Agrarian Policy of Ukraine, protocol No. 3 dated January 11, 2006.
11. Instructions for carrying out sanitary treatment - disinfection, disinsection and deratization of poultry facilities. Available: <https://zakon.rada.gov.ua/laws/show/z0813-07>
12. Instructions for the prevention and elimination of poultry colibacteriosis. Available: <https://zakon.rada.gov.ua/laws/show/z0784-18#Text>
13. Instructions for the prevention and elimination of pseudomonosis of poultry. Available: <https://zakon.rada.gov.ua/laws/show/z1188-09#Text>
14. Instructions for the prevention and elimination of poultry salmonellosis. Available: <https://zakon.rada.gov.ua/laws/show/z1344-16#Text>
15. Instructions for the prevention and elimination of poultry streptococcosis. Available: <https://zakon.rada.gov.ua/laws/show/z0981-10#Text>
16. Instructions for the prevention and elimination of poultry staphylococci. Available: <https://ips.ligazakon.net/document/RE16600>
17. Rules of pre-slaughter veterinary inspection of animals and veterinary-sanitary examination of meat and meat products of animal husbandry. Available: <https://zakon.rada.gov.ua/laws/show/z0524-02#Text>
18. Poultry enterprises. VNTP - AVPK - 04.05. Available: https://lugdpss.gov.ua/images/bezpechnist_veterynariya/Pidpryyemstva-ptakhivnytstva-VNTP-APK-04.05.pdf
19. Antiepidemiological measures in animal husbandry: a textbook / V.Yu. Kassich, O.I. Kasyanenko - Sumy: FOP Tsyoma S.P., 2024. - 258 p. (Approved by the Scientific Council of SNAU, Protocol No. 6 of November 04, 2022).
20. Veterinary provision of public health: textbook / O.I. Kasyanenko, - Odesa, Oldi+, 2024. - 144 p. Bible 10. (Approved by the Scientific Council of SNAU, Protocol No. 18 of May 29, 2023).
21. 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 Tsyoma S.P., 2024. - 280 p. Bible 10. (Approved by the Scientific Council of SNAU, Protocol No. 10 of February 27, 2024).
22. Special epizootology: textbook / A.F. Karysheva, - Kyiv: Higher Education, 2002, 701
23. Kassich V.Yu. Epizootology and infectious diseases. Special epizootology. "The fight against zoonoses as the basis of biological security of Ukraine". Methodical manual for students of specialties 211 - "Veterinary medicine", 212 - "Veterinary hygiene and expertise". Educational degree: master's degree. Sumy, 2020.
24. Pathological autopsy of animals: textbook / G. A. Zon, M. V. Skrypka, L. B. Ivanovska. ; under the editorship HA. Zone. – Donetsk: PP Glazunov R.O., 2009. – 189 p.
25. Kassich V.Yu., Rebenko G.I. Antimicrobial therapy for infectious diseases of animals: a study guide. Sumy. 2013. 50 p.
26. Veterinary pharmacology. Immunobiological drugs. Rules of use: study guide / O.S. Kisterna, G.I. Rebenko - Sumy: SNAU, 2020. -160 p.
27. Infectious diseases of poultry: a textbook for masters of veterinary medicine / L.E. Kornienko, L.I. Nalivaiko, L.A. Dudnikov and others; Under the editorship L.E. Kornienko –

Bila Tserkva, 2011. – 520 p.

28. Poultry diseases: education. manual / A.V. Berezovsky, VV. German, T.I. Fotina, G.A. Fotina - Kyiv: DIA LLC, 2012. - 328 p.

Methodical support

1. Kasyanenko O.I. Animal health care. Methodological guidelines for independent work for students of FVM, specialty 211 "Veterinary Medicine" Master's degree / Sumy, 2022, 24 p.

2. Kasyanenko O.I. Zoonoses of domestic animals. Methodological guidelines for conducting laboratory-practical classes and independent work for students of FVM, specialty 211 "Veterinary Medicine" "Master's" educational degree/ Sumy, 2022, 29 p.

3. A.M. Golovko and others (2020). Methodological recommendations for the determination of virucidal activity and control of disinfectants in the veterinary field. Methodical recommendations, 32.

4. Lytvynenko V.M. Vaccine prevention of bird diseases. Study guide, 2016.

5. Kassich V.Yu., Rebenko G.I. Antimicrobial therapy for infectious diseases of animals. Tutorial. - Sumy, 2013 - 50 p.

Additional sources

The page of the Department of Food Safety and Veterinary Medicine: http://www.consumer.gov.ua/ContentPages/Pro_Department/51/

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

The website of the State Production and Consumer Service <http://www.consumer.gov.ua>