

Ministry of Education and Science of Ukraine
Sumy National Agrarian University

Faculty of Veterinary Medicine

Department of Veterinary and Sanitary Inspection, Microbiology, Hygiene and Pathological
Anatomy

MODULE SYLLABUS

INTERNATIONAL STANDARDS FOR THE MAINTENANCE AND EXPLOITATION OF
ANIMALS

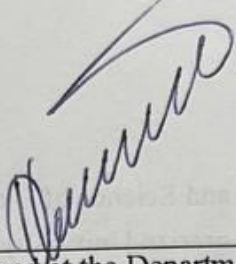
(selective)

Implemented within the educational program 211 VETERINARY MEDICINE
in specialty **211 VETERINARY MEDICINE**


Level of higher education: the second master's level of higher education

Sumy-- 2026

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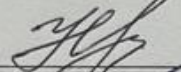


Fotina H.A., doctor of vet. science, Professor

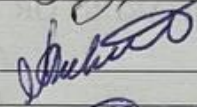
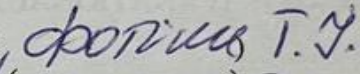
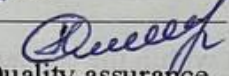
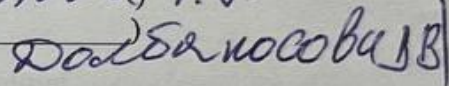
Module syllabus agreed at the Department of Veterinary and Sanitary Inspection, Microbiology, Hygiene and Pathological Anatomy	2. 06.2026 № 15
	The Head of Chair R.V. Petrov 

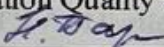
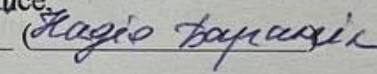
Agreed:

Guarantor of the educational program _____ Oleksandr CHEKAN

Dean of the faculty,
where educational programs implemented _____  Lyudmila NAGORNA

Syllabus review (attached) is provided by:

 ()
 ()

Representative of the Department of Education Quality assurance,
licensing and accreditation _____  ()

Registered in electronic data base _____ 23.06. 2026

Syllabus review data:

The academic year in which changes are made	The Academic program attachment number with changes description	Changes revised and approved		
		Minutes No and date of the department meeting	Head of Department	Guarantor of the Academic program

1. MODULE OVERVIEW

1.	Name OK	International standards for the maintenance and exploitation of animals		
2.	Faculty / department	Faculty of Veterinary Medicine		
3.	Type (compulsory or optional)	selective		
4.	Program(s) to which module is attached (to be filled in for compulsory types)	Veterinary medicine 211		
5.	Module can be suggested for (to be filled in for optional types)	Veterinary medicine 211 The second master's level of higher education		
6.	Level of the National Qualifications Framework	7		
7.	Semester and duration of study	6rd semester, 15 weeks		
8.	ECTS credits number	5		
9.	Total workload and time allotment	Contact work (classes)		Individual work
		Lectures	Practical / seminar	Laboratory
10.		16		44
11.	Language of instruction	English		
12.	Module leader	Fotina Anna Anatoliyivna		
1 1.1	Contact Information	Sumy NAU, Faculty of Veterinary Medicine, Department of Veterinary and Sanitary Inspection, Microbiology, Hygiene and Pathological Anatomy Room. 2a super.annafotina @ ukr .net		
13.	General description of the educational component	OK. International standards for the keeping and exploitation of animals' study international legal standards for the protection of animals in national and European aspects. It studies the international legal regulation of animal exploitation. Describes and studies international animal standards. Provides knowledge about the protection and promotion of animal health, rational methods of keeping, feeding, rearing and care, ensuring their high productivity due to heredity. Conducts a comprehensive review of international acts. Provides a system of international standards that in one way or another regulate the use of wildlife. In some respects, it highlights the role of these acts and the impact on national legislation. OK. analyzes the ways of protection of animal rights provided by the legislation. Provides the material necessary for the study and mastering by students of the basic provisions of international approaches to health care, disease prevention and productivity of animals, obtaining high		

		quality and biologically complete livestock products.
14.	The purpose of the educational component	The purpose of the course "International standards of keeping and exploitation of animals" is to train veterinarians who must have knowledge of: international standards of keeping and exploitation of animals. During the course students should consider theoretical and practical issues of international legal regulation of cooperation between states in the field of ensuring appropriate standards for keeping and exploitation of animals. Gain international experience in the protection and promotion of animal health, rational methods of keeping, feeding, rearing and care that ensure their high productivity due to heredity.
15.	Prerequisites for studying OK, the relationship with other educational components of OP	<ol style="list-style-type: none"> 1. The educational component is based on such OK as "Animal Genetics and Breeding", "Bioethics, Biosafety, Biosecurity and Ecology", "Normal and Pathological Physiology of Animals". 2. The educational component is the basis for such OK as " Veterinary hygiene and sanitation of animals ", "Clinical and laboratory diagnosis of animal diseases", "Organization and economics of veterinary affairs", " Veterinary international and national legislation". 3. The main component is incompatible (does not have)
16.	The policy of academic integrity	<ul style="list-style-type: none"> • attending classes. In case of skipping classes without good reason, the student must hand over to the teacher thematic situational tasks, • access to higher education for people with special needs. Applicants for higher education with special needs must inform the teacher of the discipline in advance. At the request of the survey, the acceptance of tests and presentations is carried out individually, in the time allotted for consultations (according to this syllabus), in the laboratory or online; • academic activity. Answers to situational tasks and questions of the thematic survey depend on the level of knowledge of the student and are carried out at his request. • laboratory classes. The use of a mobile phone, tablet or other mobile devices during the lesson (except as provided in the curriculum and guidelines of the teacher) is prohibited. <p>Prevention of academic plagiarism. Write-offs and plagiarism are not allowed; in case of dishonesty the work is not credited. <u>Plagiarism check algorithm</u> systems are also tools for counteracting violations of academic integrity . In case of violations, the response is in accordance with the regulations on the academic integrity of participants in the educational process in Sumy NAU (https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/). If a violation of</p>

		<p>academic integrity is detected, the completed task is not credited and is sent for re-execution.</p> <p>Formation of skills of academic writing and thinking. Recommendations for making presentations. The tasks of independent work provided by the program must be completed in a timely manner, with correct reference to sources of information. During the preparation it is necessary to study the basic and reference literature, which will help to create a logical, meaningful report when presenting the presentation and competently answer the questions of classmates and the teacher. Under certain circumstances (skipping classes for good reasons, the introduction of distance learning, etc.) the student can send a presentation for assessment individually to the e-mail address specified in this syllabus.</p>
17.	Educational component keywords	<ul style="list-style-type: none"> International, standards, OIE as the WTO reference organization.
18.	Access to Moodle.	https://cdn.snau.edu.ua/moodle/course/view.php?id=1532

2. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND PROGRAM LEARNING OUTCOMES (PLOs)

MLOs: On successful completion of the module the learner will be able to:	Program learning outcomes to be achieved by the OK (indicate the number according to the numbering given in the OP)			How assessed
	PLOs 1	PLOs 10	PLOs 12	
MLO 1. Introduction. The OIE as the WTO reference organization for standards relating to animal health and zoonoses.	+		+	survey of theoretical issues, performing tasks in laboratory and practical classes, testing, performing tasks of independent work
MLO2. Content of OIE standards New international standards and guidelines Generic chapters in the Terrestrial and Aquatic Codes.	+	+		survey of theoretical issues, performing tasks in laboratory and practical classes, testing, performing tasks of independent work
MLO 3. New ISO specification for better management of animal welfare worldwide.	+	+	+	survey of theoretical issues, performing tasks in laboratory and practical

				classes, testing, performing tasks of independent work
MLO 4. International standards for keeping animals. International standards for exploiting animals. Specific guidelines for the slaughter of animals for human consumption and the killing of animals for disease control purposes	+	+	+	survey of theoretical issues, performing tasks in laboratory and practical classes, testing, performing tasks of independent work
MLO5. Model international veterinary and aquatic animal health certificates. Implementing OIE standards.	+	+	+	survey of theoretical issues, performing tasks in laboratory and practical classes, testing, performing tasks of independent work

3. MODULE INDICATIVE CONTENT

Autumn semester

Topics	Distribution of hours				Learning resources
	Directed study		Self-directed study		
	Lectures	pr	lab		No (from the list of Learning resources)
Topic 1. The OIE as the WTO reference organization for standards relating to animal health and zoonoses. 1. Introduction to the subject. 2. The OIE as the WTO reference organization for standards relating to animal health and zoonoses. 3. International Standards: Protecting animals, preserving our future. 4. Standards Setting Process Specialist Commissions	2		2	10	1,7,9,11.
Topic 2. Content of OIE standards New international standards and guidelines Generic chapters in the Terrestrial and Aquatic Codes 1. What are OIE International Standards? 2. The <i>Terrestrial Animal Health</i>	2		2	10	2, 3,13.

<p><i>h Code.</i> Generic chapters in the Terrestrial Code</p> <p>3. Animal welfare in the Terrestrial Code.</p> <p>4. The principles of animal welfare.</p> <p>5. The <i>Aquatic Animal Health Code</i> Generic chapters in the Aquatic Code.</p>					
<p>Topic</p> <p>3. New ISO specification for better management of animal welfare worldwide.</p> <p>1. ISO / TS 34700: 2016 requirements and guidance for the implementation of the animal welfare principles as described in the introduction to the recommendations for animal welfare of the OIE TAHC.</p> <p>2. ISO / TS 34700: 2016 applies to terrestrial animals bred or kept for the production of food or feed. The following areas are excluded: animals used for research and educational activities, animals in animal shelters and zoos, companion animals, stray and wild animals, aquatic animals, killing for public or animal health purposes under the direction of the competent authority, humane killing traps for nuisance and fur species.</p>	2		2	10	4, 5, 15,12.
<p>Topic 4. International standards for keeping animals.</p> <p>1. Standards for the Accommodation and Care of Animals</p> <p>2. Animal Environment, Housing, and Management</p> <p>3. Cattle care standards</p> <p>4. Pig Standards</p> <p>5. Poultry keeping standards</p> <p>6. Equine Standards</p> <p>7. Standards for the Accommodation and Care of Animals in Zoos and Aquaria</p>	2		2	20	5, 16,11.
<p>Topic 5. International standards for exploiting animals</p>	2		2	10	1, 4, 7, 10.

<ol style="list-style-type: none"> 1. Transport of animals by sea; 2. Transport of animals by land 3. Transport of animals by air; 4. Animal welfare and beef cattle production systems; 5. Animal welfare and broiler chicken production systems; 6. Animal welfare and dairy cattle production systems. 7. Animal welfare and pork production systems 8. Disease surveillance 9. Animal production food safety 					
<p>Topic6. Specific guidelines for the slaughter of animals for human consumption and the killing of animals for disease control purposes.</p> <ol style="list-style-type: none"> 1. EU legislation on the killing of animals aims to minimize the pain and suffering of animals 2. On-farm killing for disease control purposes 	2		2	10	6,7,20.
<p>Topic 7. Model international veterinary and aquatic animal health certificates</p> <ol style="list-style-type: none"> 1. Issuing International Health Certificates (IHCs) for Live Animal Movement 2. International movements of competition horses 3. Model health certificates for international trade in live aquatic animals and products of aquatic animal origin 	2		2	10	8, 17.
<p>Topic 8. Implementing OIE standards</p> <ol style="list-style-type: none"> 1. Implementing OIE standards 2. OIE seventh strategic plan for the period 2021–2025 	2		4	10	9,19.
Total	16		14	90	

4. METHODS OF TEACHING AND TEACHING

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLO1. Introduction. The OIE as the WTO reference organization for standards relating to	Methods of teaching by source of knowledge: <i>Verbal:</i> story, explanation, conversation (heuristic and	4	Methods of teaching by source of knowledge: <i>Verbal:</i> work with a	14

<p>animal health and zoonoses.</p>	<p>reproductive), lecture, instruction. <i>Visual:</i> demonstration, illustration, observation. Active methods: (use of technical teaching aids, use of training and control tests) Interactive teaching methods: (use of multimedia technologies.</p>		<p>book (reading, translation, writing, taking notes, making tables, graphs, reference notes), <i>Visual:</i> observation. Teaching methods by the nature of the logic of cognition (analytical, <i>synthesis methods</i>, and <i>inductive method, deductive method, translational method</i>). Active methods (brainstorming, crossword puzzles, debates, round tables, binary classes, business and role-playing games, group research). Interactive learning technologies (use of multimedia technologies, dialogue learning, student cooperation (cooperation)</p>	
<p>MLO 2. Content of OIE standards New international standards and guidelines Generic chapters in the Terrestrial and Aquatic Codes.</p>	<p>Methods of teaching by source of knowledge: <i>Verbal:</i> story, explanation, conversation (heuristic and reproductive), lecture, instruction. <i>Visual:</i> demonstration, illustration, observation. Active methods: (use of technical teaching aids, use of training and control tests) Interactive methods will present : (use of multimedia technologies.</p>	<p>2</p>	<p>Methods of teaching by source of knowledge: <i>Verbal:</i> work with a book (reading, translation, writing, taking notes, making tables, graphs, reference notes), <i>Visual:</i> observation. Teaching methods by the nature of the logic of cognition (analytical, <i>synthesis methods</i>, and <i>inductive method, deductive method, translational method</i>). Active methods</p>	<p>14</p>

			<p>(brainstorming, crossword puzzles, debates, round tables, binary classes, business and role-playing games, group research).</p> <p>Interactive technologies teaching (use of multimedia technology, learning dialogue, cooperation of students (cooperation)).</p>	
<p>MLO 3 New ISO specification for better management of animal welfare worldwide.</p>	<p>Methods of teaching by source of knowledge: <i>Verbal:</i> story, explanation, conversation (heuristic and reproductive), lecture, instruction. <i>Visual:</i> demonstration, illustration, observation. Active methods: (use of technical teaching aids, use of training and control tests) Interactive methods will presenting : (use of multimedia technology, spreadsheets.</p>	2	<p>Methods of teaching by source of knowledge: <i>Verbal:</i> work with a book (reading, translation, writing, taking notes, making tables, graphs, reference notes), <i>Visual:</i> observation. Teaching methods by the nature of the logic of cognition (analytical, <i>synthesis methods</i>, and <i>inductive method, deductive method, translational method</i>).</p> <p>Active methods (brainstorming, crossword puzzles, debates, round tables, binary classes, business and role-playing games, group research).</p> <p>Interactive technologies teaching (use of multimedia technology, learning dialogue, cooperation of students (cooperation))</p>	30
<p>MLO 4. International standards for</p>	<p>Methods of teaching by source of knowledge:</p>	4	<p>Methods of teaching by source of</p>	30

<p>keeping animals.</p>	<p><i>Verbal:</i> story, explanation, conversation (heuristic and reproductive), lecture, instruction. <i>Visual:</i> demonstration, illustration, observation. Active methods: (use of technical teaching aids, use of training and control tests) Interactive methods will present ting : (ie use of multimedia technologies, spreadsheets.</p>		<p>knowledge: <i>Verbal:</i> work with a book (reading, translation, writing, taking notes, making tables, graphs, reference notes), <i>Visual:</i> observation. Teaching methods by the nature of the logic of cognition (analytical, <i>synthesis methods</i>, and <i>inductive method, deductive method, translational method</i>). Active methods (brainstorming, crossword puzzles, debates, round tables, binary classes, business and role-playing games, group research). Interactive technologies teach ting (use of multimedia technology, learning dialogue, cooperation of students (cooperation)</p>
<p>MLO 5. International standards for exploiting animals.</p>	<p>Methods of teaching by source of knowledge: <i>Verbal:</i> story, explanation, conversation (heuristic and reproductive), lecture, instruction. <i>Visual:</i> demonstration, illustration, observation. Active methods: (use of technical teaching aids, use of training and control tests) Interactive methods will present ting : (use of multimedia technologies.</p>	<p>4</p> <p>Methods of teaching by source of knowledge: <i>Verbal:</i> work with a book (reading, translation, writing, taking notes, making tables, graphs, reference notes), <i>Visual:</i> observation. Teaching methods by the nature of the logic of cognition (analytical, <i>synthesis methods</i>, and <i>inductive method, deductive method, translational m</i></p>	<p>15</p>

			<i>ethod</i>). Active methods (brainstorming, crossword puzzles, debates, round tables, binary classes, business and role-playing games, group research). Interactive technologies teaching (use of multimedia technology, learning dialogue, cooperation of students (cooperation)	
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5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

No	Summative assessment methods	Grades	Deadline
Autumn semester			
1.	Thematic survey	<i>20 points / 20 %</i>	Weekly
2.	Execution of tasks in laboratory- practical classes	<i>20 points / 20 %</i>	According to the schedule
3.	Testing	<i>15 points / 15 %</i>	For 7-8 weeks
4.	Report with a presentation on the subject of independent study of the discipline	<i>45 points / 45 %</i>	According to the schedule of delivery of modules

5.2.2. Grading criteria

Summative assessment method	Unsatisfactory	Satisfactorily	Good	Excellent
Thematic survey	<i><12 points</i>	<i>12-15 points</i>	<i>15-18 points</i>	<i>20 points</i>
	The student can play only individual fragments of the course.	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered

Execution of tasks in laboratory-practical classes	<i><12 points</i>	<i>12-15 points</i>	<i>15-18 points</i>	<i>20 points</i>
	Task requirements not met	Most of the tasks are performed using the basic theoretical principles, the student has difficulty explaining the rules for solving laboratory-practical problems. Execution of individual control tasks is significantly formalized, there is no deep understanding of the work	The student learned the basic material, and understands and performs laboratory-practical tasks and has suggestions for the direction of their solutions. Understands the main provisions that are decisive in the course, can solve similar problems with those discussed with the teacher, but allows a small number of inaccuracies.	Competitor realism is a theoretical ground material discipline in carrying laboratory work, able to analyze and correlate the results obtained from the discipline acquired knowledge, skills, practical skills
Multiple choice test	<i>≤ 5 points</i>	<i>6-9 points</i>	<i>10–13 points</i>	<i>14-15 points</i>
	The student gives the correct answer to several questions (≤ 33% of the correct answers) .	The student has some knowledge provided in the program of the discipline, has the basic provisions being studied and gives the correct answer to several questions (34-59% of correct answers) .	The student is generally well versed in the material, knows the basic provisions of the material, and gives the correct answer to several questions (60-89% of the correct answers).	The student demonstrates complete and solid knowledge of the study material in the amount that corresponds to the program of the discipline, correctly answers the test questions (90-100% of correct answers).
Design and	<i>< 9 points</i>	<i>10 - 19 points</i>	<i>20 - 39 points</i>	<i>40 -</i>

presentation report independently of the processed material				45 points
	The student does not have a complete understanding of the material on the discipline. The student is not performed independently is processing material.	Despite the fact that the program of discipline complied by student, but some components are missing, a student worked passively.	Know the basic and provisions with crucial at performing independent work / individual tasks. Errors in the answers are not significant .	All requirements, tasks are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered.

5.3. Formative assessment

Formative exercises are designed to enable students to develop particular aspects of their learning, prior to summative assessments. Formative exercises are designed to help students use feedback and self-reflection to manage and develop their learning so that they can see how to improve their work.

№	Formative Assessment elements	Date
	Autumn semester	
1	Oral feedback after studying topics 1 - 3 , 6-8	3 weeks
2	Written feedback after studying topics 4 - 5	8 weeks
3	Written feedback from the teacher while working on laboratory-practical tasks	Within 1 week after execution
4	Oral feedback from the teacher after the story with a presentation on the topic of independent study of the discipline	During classes

6. LEARNING RESOURCES

6.1. Main Literature

- Fraser, D. (2023) *Understanding Animal Welfare: The Science in its Cultural Context*. 2nd edn. Hoboken, NJ: John Wiley & Sons.
- Webster, J. and Margerison, J. (eds.) (2024) *Management and Welfare of Farm Animals: The UFAW Farm Handbook*. 6th edn. Oxford: Wiley-Blackwell.
- García Pinillos, R. and Huertas Canén, S.M. (2023) *One Welfare: Animal Health and Welfare, Food Security and Sustainability*. Wallingford: CAB International.
- <https://www.oie.int/en/what-we-do/standards/>
- 2025 © OIE - *Terrestrial Animal Health Code*
- 2024 © OIE - *Aquatic Animal Health Code - 29/08/2019*
- Fletcher, JL 2022. Influence of noise on animals. Pp.51-62 in *Control of the Animal House Environment*. Laboratory Animal Handbooks T. McSheehy, ed. London: Laboratory Animals Ltd.
- <https://agreenerworld.org/certifications/animal-welfare-approved/standards/pig-standards/>
- On-farm killing for disease control purposes https://ec.europa.eu/food/animals/animal-welfare/animal-welfare-practice/slaughter-stunning_en
- On-farm killing for disease control purposes <https://www.hsa.org.uk/downloads/killing-for-disease-control.pdf>

11. Animal and Plant Health Inspection Service
<https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/nvap/NVAP-Reference-Guide/Animal-Movement/issuing-international-health-certificates-for-live-animal-movement>
12. NVAP Module 22: Animal Welfare : An Introduction October 2015 https://web.oie.int/download/SG/2020/A_88SG_14_StrategicPlan.pdf

Additional Literature

1. On Veterinary Medicine and Animal Welfare: Law of Ukraine No. 1206-IX of February 4, 2021. Available at: Verkhovna Rada of Ukraine Legislation Database (accessed: June 9, 2026).

Electronic resources.

<http://www.allvet.ru/referats/35.php>

http://techpharm.ru/animals3_vet3-77

<http://agrorad.ru/threads>

<http://gosvetvlad.ru/news/events/2015-03-05-vetsanekspertiza---eyo.htm>

<https://cdn.snau.edu.ua/moodle/course/view.php?id=1532>

Other source

1. Shkromada, O., Fotina, T., Fotina, H., Sergeychik, T., & Kaliuzhna, T. (2024). Effectiveness of probiotics in growing broiler chicken. *Scientific Horizons*, 27(1), 32-40. <https://doi.org/10.48077/scihor1.2024.32>
2. Fotina, T., Yarmoshenko, Yu., Dudnyk, Ye., Kovalenko, L., & Negreba, Y. (2024). Results of iodine-based treatment application in carp aquaculture within closed water systems. *Scientific Horizons*, 27(9), 20-31. <https://doi.org/10.48077/scihor9.2024.20>
3. Fotina, T., Hunko, O., Fotin, A., Borkovskyi, R., & Morozov, B. (2024). Peculiarities of rearing poultry by floor method on deep bedding. *Scientific Horizons*, 27(8), 9-23. <https://doi.org/10.48077/scihor8.2024.09>
4. Shkromada, O., Fotina, T., Ivchenko, V., Chivanov, V., Sirobaba, V., Shvets, O., Pikhtirova, A., Babenko, O., Vorobiova, I., & Dychenko, T. (2024). Determining the characteristics of concrete in a historical building under the influence of climatic and biological factors. *Eastern-European Journal of Enterprise Technologies*, 1(6 (127), 39–46. <https://doi.org/10.15587/1729-4061.2024.298565>