MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY
Faculty of Veterinary Medicine
Department of Therapy, Pharmacology, Clinical Diagnostics and
Chemistry

MODULE SYLLABUS

ETHOLOGY AND WELFARE OF THE HERD

Implemented in the "Veterinary Medicine" Academic Program

Area of specialization 211 " Veterinary Medicine"

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

Sumy-2022

Author: _____ /... Ulko LG. Ph.D., Professor

Considered, approved and approved at the meeting of the department	protocol from 08.06.2021. № 15
Therapy, pharmacology, clinical diagnosis and chemistry	The head Department _____ Ph.D., Professor Ulko LG

Agreed:

Guarantor of the Academic program _____ (L. Ulko)

Dean of the Faculty _____ (O. Nechyporenko)

Review of the work program provided: _____ Dolbanosova RV

_____ Shkromada O.I

Methodist of the Department of Education Quality, licensing and accreditation _____ (Balashyna N.O)

Registered in electronic data base _____ 2021

Syllabus review data:

Academic year in which changes are made	The number of the application to the work program with a description of the changes	The changes have been reviewed and approved		
		Date and number of the minutes of the meeting of the department	Head of Department	Guarantor of the educational program

1. MODULE OVERVIEW

1.	Name OK	Ethology and welfare of the herd
2.	Faculty / department	Veterinary Medicine / Therapy, Pharmacology, Clinical Diagnostics and Chemistry
3.	Status OK	Obligatory
4.	Program / Specialty (programs), the component of which is OK for (to be filled in for mandatory OK)	Veterinary medicine / 211 «Veterinary medicine»
5.	OK can be suggested for (to be filled in for selective OK)	-
6.	Semester and duration of study	3rd semester, 15 weeks
7.	Number of ECTS credits	3
8.	The total number of hours and their distribution	Contact work (classes)			Individual work
		Lectures	Practical / seminar	Laboratory	
9.	5- Semester	14 (6)		30 (16)	46 (68)
10.	Language of instruction	English
11.	Teacher / Coordinator of the educational component	Ulko Larysa Hryhorivna, veterinarian. n., professor
11.1	Contact Information	Corp. 3, office 72 larisau@ukr.net https://vet.snau.edu.ua/kafedri/kafedra-terapi%d1%97-farmakologi%d1%97-klinichno%d1%97-diagnostiki-ta-ximi%d1%97/sklad-kafedri/ulko- larisa-grigorivna-zav-kafedri-profesor-doktor-veterinarnix-nauk /

12.	General description of the educational component	The educational component is related to the general objectives of the OP and covers aspects of the formation of a modern specialist veterinarian in-depth theoretical knowledge on the study of welfare and science of animal welfare and behavior
13.	The purpose of the educational component	Training of highly qualified specialists who are able to solve complex problems in the conditions of production related to deviations in animal behavior as a result of diseases and assessment of animal welfare in order to timely identify and eliminate violations to prevent diseases and obtain quality livestock products.
14.	Prerequisites for studying OK, the relationship with other educational components of OP	1. The educational component is based on OK 8 Basics of breeding and feeding animals OK 14 Animal physiology OK 20 Veterinary hygiene and sanitation OK 26 Clinical diagnosis of animal diseases 2. The educational component is the basis for OK 31 General and special surgery OK 28 Obstetrics, gynecology and biotechnology of animal reproduction OK 32 Epizootology and infectious diseases OK 33 Internal diseases of the creature OK 37 Organization of veterinary affairs and national and international veterinary legislation
15.	The policy of academic integrity	No manifestations of academic dishonesty are allowed during the study of OK. Systems are tools for counteracting violations of academic integrityPlagiarism check algorithm. 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 academic integrity is detected, the completed task is not credited and is sent for re-execution.
16.	Course link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=4144

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)[1]				As estimated by RND
	PLOs 1	PLOs 2	PLOs 4	PLOs 5	
MLOs 1. Describe some basic principles of animal behavior (ethology), collect, determine and use data on animal behavior; recognize normal and abnormal behavior of animals. Describe common behavioral problems of domestic and captive wildlife.	+				− defense of an animal behavior research project − survey on theoretical issues − test control
MLOs 2. The ability to recognize the interaction between pet behavior and well-being		+			− problem solving − demonstrative performance of research tasks. − survey on theoretical issues − test control
MLOs 3. The ability to explain how animal welfare is determined and its role and impact in modern society	+				− final control − computer testing − solving situational problems
MLOs 4. Ability to discuss current and emerging animal welfare issues in Ukraine and other countries	+			+	− presentation and defense of a practical task
MLOs 5. The ability to interpret and communicate different ethical perspectives on the use of animals for commercial, recreational or research purposes, to explain how economic pressures affect animal welfare decisions and to identify key legislative instruments on animal welfare.		+	+		− test control − solving situational problems

3. MODULE INDICATIVE CONTENT

Topic. List of issues to be addressed within the topic	Distribution within the general budget of time				Recommended Books[2]
	Classroom work			Individual work	
	Luke	P.z / semin. with	Lab. with.		
Topic 1. Ethology: normal behavior and its violation	2		2	6	[1,3, 7, 12,13]
Topic 2.Prosperity (welfare) of animals: the definition of welfare as a science, its task			2	6	[1, 2,4,5]
Topic 3.Welfare of cattle	2		2	6	[1, 3, 8, 12]
Topic 4. The welfare of horses				6	[3, 5, 6,8]
Topic 5. Welfare of sheep and goats			2	8	[4, 7, 8]
Topic 6. Welfare of pigs	2			6	[2, 6, 12]
Topic 7.The welfare of birds			2	6	[1, 3, 5, 8, 12]
Topic 8.Well-being of dogs and cats				6	[1, 2, 4, 7, 12]
Topic 9. Welfare of wild, exotic and laboratory animals			2	6	[5, 8, 12]
Topic 10. Animal welfare at slaughter			2	6	[3, 7, 8]
Topic 11. Animal welfare during transportation	2		2	6	[2, 6, 9, 11]
Total for the fall semester	6		16	68	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLOs 1. Ability to describe some basic principles of animal behavior (ethology) and to collect, determine and use data on animal behavior; recognize normal and abnormal	Methods of teaching by source of knowledge: *Verbal:* story, explanation, conversation (heuristic and reproductive), lecture, instruction. *Visual:* demonstration, illustration, observation. Active methods: (use of technical means of training and problem situations, classes on production, group researches in the conditions of "Educational production complex-vivarium", use of	4	Methods of teaching by source of knowledge: *Verbal*: work with the book (reading, translation, writing, taking notes, making tables, graphs, reference notes), Visual: observations. Teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method). Active methods (brainstorming, binary classes, group research). Interactive learning	10

behavior of animals and describe general behavioral problems of domestic and captive wildlife.	educational and control tests) Interactive teaching methods: (use of multimedia technologies, spreadsheets, case-study (method of analysis of specific situations), dialogue learning, student cooperation (cooperation)		technologies (use of multimedia technologies, dialogue learning, cooperation of students (cooperation). Self-study, analysis, preparation of multimedia reports on materials: Ethology and welfare of animals	
MLOs 2. Ability to recognize the interaction between pet behavior and well-being	Methods of teaching by source of knowledge: *Verbal:* story, explanation, conversation (heuristic and reproductive), lecture, instruction. *Visual:* demonstration, illustration, observation. Active methods: (use of technical means of training and problem situations, classes on production, group researches in the conditions of "Educational production complex-vivarium", use of educational and control tests) Interactive teaching methods: (use of multimedia technologies, spreadsheets, case-study (method of analysis of specific situations), dialogue learning, student cooperation (cooperation)	4	Methods of teaching by source of knowledge: *Verbal*: work with the book (reading, translation, writing, taking notes, making tables, graphs, reference notes), Visual: observations. Teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method). Active methods (brainstorming, binary classes, group research). Interactive learning technologies (use of multimedia technologies, dialogue training, cooperation of students (cooperation). Self-study, analysis, preparation of multimedia reports on materials: Welfare of animals	14
MLOs 3. Ability to explain how animal welfare is determined and its role and impact in modern society	Methods of teaching by source of knowledge: *Verbal:* story, explanation, conversation (heuristic and reproductive), lecture, instruction. *Visual:* demonstration, illustration, observation. Active methods: (use of technical means of training and problem situations, classes on production, group researches in the conditions of "Educational production complex-	6	Methods of teaching by source of knowledge: *Verbal*: work with the book (reading, translation, writing, taking notes, making tables, graphs, reference notes), Visual: observations. Teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method). Active methods (brainstorming, binary classes, group research).	12

	vivarium", use of educational and control tests) Interactive teaching methods: (use of multimedia technologies, spreadsheets, case-study (method of analysis of specific situations), dialogue learning, student cooperation (cooperation)		Interactive learning technologies (use of multimedia technologies, dialogue learning, cooperation of students (cooperation). Self-study, analysis, preparation of multimedia reports on materials: Ethology and welfare of animals	
MLOs 4. Ability to discuss current and new issues related to animal welfare in Ukraine and other countries	Methods of teaching by source of knowledge: *Verbal:* story, explanation, conversation (heuristic and reproductive), lecture, instruction. *Visual:* demonstration, illustration, observation. Active methods: (use of technical means of training and problem situations, classes on production, group researches in interfaculty NNL of electron microscopy, use of educational and control tests) Interactive teaching methods: (use of multimedia technologies, spreadsheets, case-study (method of analysis of specific situations), dialogue learning, student cooperation (cooperation)	4	Methods of teaching by source of knowledge: *Verbal*: work with the book (reading, translation, writing, taking notes, making tables, graphs, reference notes), Visual: observations. Teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method). Active methods (brainstorming, binary classes, group research). Interactive learning technologies (use of multimedia technologies, dialogue training, cooperation of students (cooperation). Self-study, analysis, preparation of multimedia reports on materials: Welfare of animals	16
MLOs 5. Ability to interpret and communicate different ethical perspectives on the use of animals for commercial, recreational or research purposes, explain how economic pressures	Methods of teaching by source of knowledge: *Verbal:* story, explanation, conversation (heuristic and reproductive), lecture, instruction. *Visual:* demonstration, illustration, observation. Active methods: (use of technical means of training and problem situations, classes on production, group researches in the conditions of "Educational production complex-vivarium", use of	4	Methods of teaching by source of knowledge: *Verbal*: work with the book (reading, translation, writing, taking notes, making tables, graphs, reference notes), Visual: observations. Teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method). Active methods (brainstorming, binary classes, group research). Interactive learning	16

affect animal welfare decisions, and identify key legislative instruments on animal welfare.	educational and control tests) Interactive teaching methods: (use of multimedia technologies, spreadsheets, case-study (method of analysis of specific situations), dialogue learning, student cooperation (cooperation)		technologies (use of multimedia technologies, dialogue training, cooperation of students (cooperation). Self-study, analysis, preparation of multimedia reports on materials: Welfare of animals	
Total for the semester		22		68

5. ASSESSMENT
5.1. Diagnostic assessment
5.2. Summative assessment
5.2.1. Intended learning outcomes methods:

№	Methods of summative evaluation	Points / Weight in the overall score	Date of compilation
1.	Current control: Thematic survey Execution of tasks in laboratory-practical classes	40 points / 40%	4… 13 weeks
2.	Protection of the project on the study of animal behavior, problem solving. demonstrative performance of research tasks, solving situational problems, presentation and defense of a practical task	15 points / 15%	4… 13 weeks
3.	Periodic control, computer testing	15 points / 15%	8 weeks
4.	Multiple choice test (or written work)	30 points / 30%	Week 16, on schedule

5.2.2. Grading criteria

Component	Unsatisfactorily	Satisfactorily	Okay	Perfectly
Current control: thematic survey performing tasks in laboratory-practical classes	**<20 points**	**21-30 points**	**31-39 points**	**40 points**
	Task requirements not met.	Most of the requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue. Partially reproduced knowledge on the basis of directly	Most of the requirements are met, but some components are missing. Reproduced knowledge of directly presented material within the program with some evidence of a broader study.	All the requirements of the task are fulfilled, creativity and thoughtfulness are demonstrated, the own solution of the problem is offered. Reproduced knowledge obtained outside the directly presented material within the program.

	presented material within the program.			
Periodic control, computer testing Protection of the project on the study of animal behavior, problem solving. demonstrative performance of research tasks, solving situational problems, presentation and defense of a practical task	**<3 points**	**4-10 points**	**11-14 points**	**15 points**
	Task requirements not met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	Most of the requirements are met, but some components are missing	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered
Multiple choice test (or written work)	**<11 points**	**12-20 points**	**26-29 points**	**30 points**
	Task requirements not met	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	Most of the requirements are met, but some components are missing	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered

5.3. Formative assessment

№	Elements of formative assessment	Date
1.	Oral feedback after studying topics 1-3, 4-7	3 weeks
2.	Written feedback on topics 1-3	Within 1 week after assembly
3.	Testing after studying topics 4-7	7 weeks
4.	Intermediate control	According to the schedule
5.	Oral feedback after studying topics 8-12	12 weeks
6.	Written feedback on topics 8-12	Within 1 week after assembly
7.	Testing after studying topics 13-14	14 weeks
8.	Current control (testing, generalization of points) 15 weeks	15 weeks
9.	Multiple choice exam (or written work) 16 weeks, on schedule	Week 16, on schedule

6. LEARNING RESOURCES
6.1. The main sources

1. Koziy VI Animal welfare // textbook, Bila Tserkva. - 2012. - 320 pp. Pathological physiology in questions and answers: textbook. [For students. higher textbook lock IV level of accreditation]. Kyiv: VSV, 2010.164 p.

2. https://kurkul.com/spetsproekty/378-nassr-u-virobnitstvi-moloka-vimogi-bezpechnosti-na-potujnostyah-virobnitstva

3. https://www.apd-ukraine.de/images/2021/Biosicherheit_und_Tierwohl/09%D0%9A%D0%BD%D0%B8%D0%B3%D0%B0%D0%91%D0%BB%D0%_B0%_D0%_B3%_D0%_BE%_D0%_BF%_D0%_BE%_D0%_BB%_D1%_83%_D1%_87%_D1%_87%_D1%_8F%_D0%_91%_D1%_96%_D0%_BE%_D0%_B1%_D0%_B5%_D0%_B7%_D0%_BF%_D0%_B5%_D0%_BA%_D0%_B02021%_D0%_94%_D1%_80%_D1%_83%_D0%_BA.pdf

3. https://issuu.com/ukraineards/docs/_____

4. https://zakon.rada.gov.ua/laws/show/z0210-21#Text https://ciwf.in.ua/?p=1

5. http://efu.org.ua/upload/documents/1/132/attachment/FEI%20%D0%9A%D0%BE%D0%B4%D0%B5%D0%BA%D1%81%20_D0%_BF%_D0%_BE%_D0%_B2%_D0%_B5%_D0%_B4%_D1%_96%_D0%_BD%_D0%_BA%_D0%_B8%_20%_D0%_BF%_D0%_BE%_20%_D0%_B2%_D1%_96%_D0%_B4%_D0%_BD%_D0%_BE%_D1%_88%_D0%_B5%_D0%_BD%_D0%_BD%_D1%_8E%_20%_D0%_B4%_D0%_BE%_20%_D0%_BA%_D0%_BE%_D0%_BD%_D1%_8F.pdf

6.2. Additional sources and Internet resources:

6. https://qftp.org/wp-content/uploads/2020/05/14_blahopoluchchia-tvaryn.pdf

5. https://qftp.org/wp-content/uploads/2020/05/14_blahopoluchchia-tvaryn.pdf

6. http://www.fao.org/livestock-systems/resources/scientificpublications/health-and-animal-welfare/ru/

7. https://www.coursera.org/learn/animal-welfare/home/welcome

8. https://www.oie.int/en/what-we-do/animal-health-and-welfare/animal-welfare/

9. Journal of Applied Animal Welfare Science https://www.resurchify.com/impact/details/40377

10. https://www.rspca.org.uk/

11. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/985332/Action_Plan_for_Animal_Welfare.pdf

12. https://www.gov.uk/government/news/government-launches-second-animal-welfare-bill-to-protect-pets-livestock-and-wild-animals

13. https://achievainc.articulate-online.com/p/6152487142/DocumentViewRouter.ashx?Cust=61524&DocumentID=4cc40c77-1eae-44c7-b981-a349eef023bc&Popped=True&v=20&InitialPage 7f96c4c61396 & content_endpoint = https% 3a% 2f% 2fachievainc.articulate-online.com% 2fp% 2f6152487142% 2f & endpoint = https% 3a% 2f% 2fachievainc.articulate-online.com% 2f6152487142% 2finc 7f96c4c61396 & actor = {% 22name% 22: [% 22% 22],% 22mbox% 22: [% 22% 22],% 22objectType% 22:% 22Person% 22} & registration = 4fb6bde6-d964-

	4f0d-b395-00e2ba247070 & activity_id = articulate_ourse
14.	https://protecttheharvest.com/get-involved/educational-resources/?gclid=CjwKCAjwrPCGBhALEiwAUl9X0-OBlPxqptiuDNzylHcuJimgSBPAy5Akc6cDJyoy1UYri5mlH61w5QD
15.	https://www.worldanimalprotection.org/our-work/animals-farming-supporting-70-billion-animals/farm-animal-welfare
16.	https://www.researchgate.net/publication/298464767_Animal_welfare_Concepts_study_methods_and_indicators_translation_of_Spanish_original
17.	https://www.researchgate.net/publication/41393397_Animal_welfare_Review_of_the_scientific_concept_and_definition
18.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC340178/
19.	https://www.wellbeingintlstudiesrepository.org/assawel/16/
	https://worldanimal.net/documents/1_Animal_Welfare.pdf

6.3. Software

1. MOODL platforms; "ZOOM"; "Viber"; Facebook.