Ministry of Education and Science of Ukraine Sumy National Agrarian University Faculty of Veterinary Medicine Department of Obstetrics and Surgery

SYLLABUS OF THE COURSE

Professional elective discipline 7: "Veterinary service of pig breeding"

Specialty	211 Veterinary Medicine
Educational program	211 «Veterinary medicine»
Level of higher education	Second (master's)

Musiienko Yurii, PhD, Associate Professor Developer: _

Considered, approved and approved at the meeting of the Department of Obstetrics and	Protocol dated 04.05.2024, №11
Surgery	Head of DepartmentOksana Shkromada
Agreed:	
Guarantor of the educational progr	am Thurs Roman Petrov
Dean of the Faculty, where the educational program is i	mplemented Oleksandr Nechyporenko
where the educational program is i	Miplemented Steadard Treesis perenne
Review of the work program (attac	hed) provided by: Anatolii Fotin Cleksands Stocking
Methodist of the Department of Ed	
	H. Tray (Ragis Transmin) (full name)
Registered in the electronic databa	se: date:

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Name OK	''Veterinary	"Veterinary service of pig breeding"				
2.	Faculty	veterinary medicine,					
	chair	obstetrics and surgery					
3.	Status OK	Obligatory					
4.	Program / Specialty						
	(programs), the component						
	of which is OK for (to be						
	filled in for mandatory OK)						
5.	OK can be suggested for (to		service of pig b	reeding"			
	be filled in for selective OK)	211 «Veterir	ary medicine»				
6.	NRC level		aine - level 8, Q	F-EHEA - secon	d cycle, EQF-LLL -		
		level 7					
7.	Semester and duration of study	7th semester	1-15 weeks				
8.	Number of ECTS credits	5					
9.	The total number of hours	C	ontact work (cla		Individual work		
	and their distribution	Lectures	Practical /	Laboratory			
			seminar				
1.0				4	146		
10.	Language of instruction	DI D	· . D . C	Ukrainian			
11.	Teacher / Coordinator of the	· ·		Grebenik Natalia			
11.1	educational component Contact Information			Musiienko Yurii 190, e-mail - greb	note Quize not		
12.	General description of the				ne of the disciplines to		
12.	educational component			_	eterinary service of pig		
	educational component		•	•	ation. This knowledge		
					ning and the ability to		
					al skills in specific		
				the maintenance of			
13.	The purpose of the				e system of knowledge		
	educational component				knowledge about the		
		peculiarities of veterinary service of pig breeding and methods of					
		production.					
14.	Prerequisites for studying				red by the applicant in		
	OK, the relationship with	-		-	Animal Physiology,		
	other educational	Obstetrics,	Gynecology	and Biotechr			
	components of OP	-	n, Veterinary				
					sitology and Invasive		
			iternai special	surgery, Patho	logical anatomy and		
	<u> </u>	autopsy.					

2. LEARNING OUTCOMES OF THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH THE SOFTWARE LEARNING OUTCOMES

OK learning outcomes: After studying the educational component,	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	
the student is expected to be able to »	PRN 7. To formulate conclusions on the effectiveness of selected methods and means of keeping, feeding and treatment of animals, prevention of infectious and non-communicable diseases, as well as production and technological processes at enterprises for keeping, breeding or operation of animals of different classes and species.	PRN 9 Ability to develop and implement measures to protect the population from diseases common to animals and humans.	PRN 10 . To offer and use expedient innovative methods and approaches of the decision of problem situations of a professional origin	PRN 17 Know the rules and requireme nts of biosafety, bioethics and animal welfare	. PRN 18 Carry out accounting reporting during professional activities	
DRN 1. Be able to plan, organize and implement measures for the treatment of animals suffering from noncommunicable, infectious and invasive diseases.	X	X				Oral interview at the hospital Presentation of practical training
DRN 2. Be able to develop strategies for safe, sanitary keeping of animals.	X	X		X		Oral interview at the hospital (solving situational problems), work with animals
DRN 3. Be able to develop and implement measures to protect the population from diseases common to animals and humans.	X	X				Written survey at the hospital (solving situational problems), work with animals
DRN 4. Be able to develop strategies for disease prevention of various etiologies and document them.	X			X	Х	Oral and written interview at the hospital, computer survey of students, keeping a diary

DRN 5. Be able to	X	X	X	Oral
protect the environment				questioning
from contamination by				in
livestock waste, as well				laboratory-
as materials and				practical
veterinary products.				classes,

3. CONTENT OF THE EDUCATIONAL COMPONENT (PROGRAM OF THE COURSE)

Topic. List of issues to be addressed within the topic		Distribution within the total time budget		
	Classi	room	work	Alone at work
	Luke	Pz	Lz	
1. PROBLEMS OF BIOSECURITY AND BIOSECURITY.				14
2. LIVESTOCK MAINTENANCE AND MANAGEMENT				14
3. REPRODUCTIVE ABILITY OF BREEDERS -				18
BREEDERS.				
4. REPRODUCTIVE ABILITY OF SOWS.				16
5. TECHNOLOGY OF PIG REPRODUCTION.				14
6. ORGANIZATION OF NATURAL MATING AND			2	14
ARTIFICIAL INSEMINATION OF PIGS				
7. PHYSIOLOGY AND PATHOLOGY OF NEWBORN			2	14
8. ETHOLOGY AND WELFARE OF THE HERD				14
9. EPISOTHOLOGY AND INFECTIOUS DISEASES				14
10. VETERINARY SANITARY EXAMINATION				14
Total for the semester			4	146

4. TEACHING AND TEACHING METHODS

DRN	Teaching methods (work to be done	Num	Teaching methods (what types	Number
	by the teacher <u>during classes</u> ,	ber	of educational activities the	of
	consultations)	of	student must perform	hours
		hours	<u>independently</u>)	
DRN 1	 presentation of the material to be considered within the topic according to the plan; proposals for literature on each topic of lectures; use of the Moodle, Zoom platform during the lesson. 	10	 fixation (reading) of the material, independent work during the research solving situational problems, 	20

DRN 2	 mandatory preparation for the hospital. assimilation (processing) of material for the hospital. consultations of students in the process of mastering OK according to the counseling schedule. 	10	fixation (reading) of the material,mastering research methods	20
DRN 3	 presentation of the material to be considered within the topic according to the plan; assimilation (processing) of material for the hospital. discussion of the material of a new topic; 	10	fixation (reading) of the material.independent work during the research	20
DRN 4	 mandatory preparation for the hospital. assimilation (processing) of material for the hospital. consultations of students in the process of mastering OK according to the counseling schedule. 	10	fixation (reading) of the material,mastering research methods	30
DRN 5	 mandatory preparation for the hospital. assimilation (processing) of material for the hospital. consultations of students in the process of mastering OK according to the counseling schedule. 	4	fixation (reading) of the material,mastering research methods	16

5. EVALUATION BY EDUCATIONAL COMPONENT

5.1.Diagnostic evaluation (indicated if necessary)

5.2.Summative assessment

5.2.1. To assess the expected learning outcomes provided

№	Methods of summative evaluation	Points / Weight	Date of compilation
		in the overall	
		score	
	Spring semester		
1	Survey in laboratory-practical classes	50/50%	2, 4, 6, 8, 10, 12, 14
2	Keeping a diary	20 /20%	4, 8, 12
3	Presentation protection	30/30%	14 weeks
			(According to the
			schedule of modules)

5.2.2. Evaluation criteria

Distribution	Evaluation criteria				
of points					
	Survey in laboratory-practical classes				
5	The applicant of higher education has substantially prepared for the lesson, behaves				
	actively, actively participates in the discussion on the topic of the lecture. Comprehensive,				
	systematic and deep knowledge of the topic material is shown. The interrelation of the				
	basic concepts of the topic and their significance for the future profession is mastered.				
	Creative abilities in understanding and using theoretical material are shown.				
3-4	Since the applicant for higher education is not sufficiently prepared for the lesson, takes				
	part in discussions on the topic. Sufficient knowledge of the topic material is shown. The				
	non-systematized nature of knowledge on the topic is shown. The answers to the				
0.2	questions are not complete.				
0-2	The applicant has not prepared for the lesson, does not take part in the discussion on the				
	topic of the lesson or is absent. Lack of knowledge of the main material of the topic or				
	not answered.				
	Keeping a diary				
2	The synopsis is presented succinctly, consistently. The design of the work corresponds				
	to				
	75-100%.				
1	The synopsis is presented succinctly, consistently. The design of the work corresponds				
	to				
	50-750%.				
0	Missing.				
	Presentation protection				
	(photo or video presentation of practical skills)				
3	The applicant of higher education has substantially prepared on the topic of the lesson				
	(has a presentation with photo and video of practical skills).				
2	The applicant for higher education is not sufficiently prepared on the topic of the lesson				
	(no presentation)				
0-1	The applicant did not prepare for the topic of the lesson.				
	Form of semester control				
	Test				

5.3. Formative assessment:

To assess current progress in learning and understanding areas for further improvement

№	Elements of formative assessment	Date
1	Surveys in laboratory-practical classes,	According to the schedule
2	Diary and presentation design	Within a week until the end of
		the educational process

6.3.1. Textbooks manual

- 1. Kharenko MI, Khomin SP Physiology, pathology and biotechnology of pig breeding / monograph. Sumy: OJSC "SOD", 2010. 412 p.
- 2. Kharenka MI Handbook of pharmacological agents in obstetrics, gynecology, andrology and biotechnology of animal reproduction. Kyiv: DIA, 2011. 255 p.
- 3. Yablonsky VA, Kalinovsky GM Veterinary obstetrics, gynecology and biotechnology of animal reproduction with basics of andrology / textbook. Vinnytsia: New book, 2011. 608 p.

6.3.2 Methodological support

- 4. Grebenik NP, Shkromada OI, Kraevsky AY, Musienko YV, Chekan OM, Bondarenko IV Terminological dictionary of obstetrics / Method. instructions. Sumy, 2019, 51 p.
- 5. Grebenik NP, Chekan OM, Bondarenko IV, Musienko Yu.V. Postpartum pathology in sows / Method. Sumy recommendations, 2017, 45 p.
- 6. Grebenik NP Measures of infertility prevention / Methodical instructions of Sumy, 2019, 24 p .
- 7. Grebenik NP Obstetrics, gynecology and biotechnology of animal reproduction / Consp. lectures. Sumy, 2015, 145 p.
- 8. Grebenik NP, Kharenko MI, Baidevlyatov YA, Parashchenko IV, Chekan OM Technology of animal reproduction / Methodical recommendations of Sumy, 2011, 92 p.
- 9. Grebenik NP, Kharenko MI, Baidevlyatov YA, Parashchenko IV, Chekan OM, Chernenko AA Situational tasks in obstetrics, gynecology and biotechnology of reproduction of farm animals and midwifery examination / Methodical recommendations of Sumy, 2011, 72 p.

6.3.3 Other sources

- 10. Electronic resource http://library.sau.sumy.ua
- 11. Electronic resource http://veterinary.net.ua/books/veterinarne-akusherstvo ginekologiya-ta-biotehnologiya-vidtvorennya-tvarin-z-osnovami
- 12. Electronic resource http://www.studmed.ru/yablonskiy-va-praktichne-akusherstvo-gnekologya-ta-botehnologya-vdtvorennya-tvarin-z-osnovami andrologyi_ace66ddb090.html

6.4 Additional sources

- 13. Veterinary obstetrics, gynecology and biotechnology of animal reproduction with the basics of andrology / [Yablonsky VA , Хомин С.П. , Kalinovsky GM etc.]. Vinnytsia: Nova kinyha, 2011. 608 p.
- 14. Cap. VV, Valchuk OA, Derkach SS, Zhuk Yu.V., Masalovich Yu.S. Biotechnological methods in veterinary reproductive medicine: a textbook. Kyiv, NULES of Ukraine, 2020. 102 p.
- 15. Lyubetsky VY, Zhuk YV, Valchuk OA, Derkach SS, Kovpak. V.V. Laboratory and functional diagnostics in veterinary obstetrics, gynecology and andrology: a textbook. Kyiv, NULES of Ukraine, 2020. 258 p.
- 16. Valchuk OA, Mazur VM, Kovpak VV, Derkach SS, Zhuk Yu.V. Methods of research in veterinary medicine: Textbook. Kyiv: NULES of Ukraine, 2020. 146 p.
- 17. Berezovsky AV, Kharenko MI, Lyubetsky VY, Koshevoy VP, Fotina TI, Zhelavsky MM, Sklyarov PM, Stravsky JS, Chekan O.M., Baidevlyatova Yu.V., Saletska OV, Zhuk Yu.V., Valchuk OA, Derkach SS, Fedorenko S.Ya., Luzan MP, Musienko Yu.V., Dmitrov O.Ya., Kostyshyn EE, Khomutov SL Physiology and pathology of the mammary gland in animals: Textbook / for general. ed .. A.V. Berezovsky and MI Kharenka K .: DIA, 2018. 476 p.

6.5. Software

- Computers with software for practical work
- Microsoft Power Point data visualization Microsoft Power BI analytics and data visualization
- Multimedia projector, whiteboard and screen;
- Moodle distance learning and control system