

SYLLABUS OF THE DISCIPLINE «FUNDAMENTALS OF ANIMAL BREEDING»

Educational degree - Master
Specialty 211 Veterinary medicine
Educational program «Veterinary medicine»
Year of study (course) - 2, semester 3
Form of study - full-time
Amounts of credits ECTS - 4
Language of studying - English, Ukrainian
Suprun Iryna Oleksandrivna

Course lecturer Lecturer contact information (e-mail) Course page in eLearn

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Teacher: Suprun Iryna Oleksandrivna, Candidate of Agricultural Sciences, Associate Professor of Genetics, Breeding and Biotechnology of Animals *educational building №1, room 89*

DESCRIPTION OF THE DISCIPLINE

The course considers the basic concepts of origin, animal breed and breed structure; system of identification in animal husbandry, features of assessment of exterior and types of animal constitution, principles of assessment of individual development, productivity, breeding qualities of animals; rules for reading and constructing individual and group pedigrees, principles of recording and determining the density of inbreeding, basics of rejecting, selection and various methods of breeding in animal husbandry; biological features and breeds of cattle, horses, pigs, sheep, poultry.

Acquisition of competencies:

General Competences (GC). As part of the effects of final competence acquired in the learning process, graduates are able to:

GC10. communicate with representatives of other professional groups of different levels (with experts in other fields of knowledge / types of economic activity);

Professional (special competencies) (SC).

- SC 2. The ability to use tools, special devices, laboratory equipment and other technical means to carry out the necessary manipulations during professional activity.
- *SC 10.* Ability to develop strategies for safe, sanitary animal keeping. As part of the effects of final competence acquired in the learning process, graduates are able to be aware of the details of the decisions made, in particular regarding natural resources.

Program learning outcomes (PLO):

- **PLO 3.** Determine the essence of physical and chemical, a biological process that occur in the body of animals in normal and pathological conditions.
- **PLO 7.** Formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-communicable diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species.
- **PLO 10.** Propose and use expedient innovative methods and approaches to solving problematic situations of professional origin.

THE STRUCTURE OF THE DISCIPLINE

Topic	Hours	Learning outcomes	Tasks	Evaluation
3 semester				
Content module № 1. Exterior. Interior. Constitution. Breed. Ontogenesis. Productivity				

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		of crossing, features of purebred		
		breeding and crossing.		
Topic 2.	0/8	Know basic principles of	Execution of	Credited under
Pedigrees.		zootechnical breeding	laboratory and	the conditions of
Inbreeding.		accounting and identification.	independent	completed tasks.
Heterosis.		To be able to determine the	work.	Testing for 2
		breeding value of animals, read		module
		and construct an individual and		(maximum
		group pedigrees.		amount of points
				per module - 100
				points).
Topic 3.	2/4	Know principles of division of	Preparation of	Credited under
Theoretical and		animals into groups and forms of	lecture notes.	the conditions of
practical		selection at the stud and	Execution of	completed tasks.
foundations of		commercial farms, conditions of	laboratory	Testing for 2
selection,		inbreeding's using.	and	module
rejection and		Understand sequence and stages	independent	(maximum
selection.		of rejecting and selection, the	work.	amount of points
		concept of inbreeding depression	Writing the	per module - 100
		and heterosis.	tests.	points).
		To be able to record and estimate		
		the density of inbreeding.		
Topic 4.	2/2	Know economic value,	Preparation of	Credited under
Biological		biological, productive features of	lecture notes.	the conditions of
features and		livestock and horse breeding.	Execution of	completed tasks.
breeds of cattle		Distinguish different breeds of	laboratory	Testing for 2
and horses.		cattle and horses.	and	module
			independent	(maximum
			work.	amount of points
			Writing the	per module - 100
			tests.	points).
Topic 5.	2/0	To know economic importance,	Preparation of	Credited under
Biological		biological, breed, productive	lecture notes.	the conditions of
features and		features of pig breeding, sheep	Performing	completed tasks.
breeds of		breeding, poultry farming.	independent	Testing for 2
poultry, pigs and		To distinguish different breeds	work.	module
sheep.		of cattle pigs, sheep, birds of	Writing the	(maximum
		different species.	tests.	amount of points
		To understand egg production		per module - 100
		technologies and broiler industry.		points).
In total by the				100
content module 2				
Educational work for the semester (M ₁ +M ₂)/2*0,7				70 (≥42)
Test				30
In total by the course				100

EVALUATION POLICY

Policy on deadlines and	d Retaking of modules takes place with the permission of the lecturer if	
retaking:	there are important reasons (for example, hospital).	
	Retaking of modules takes place with penalty points.	
Academic Integrity	Cheating during the tests and exams are prohibited (including with the	
Policy:	use of mobile devices). Presentations, abstracts must have correct	
	textual references to the literature sources used.	

Visiting Policy: Attendance is mandatory. For objective reasons (for examp	
international internship) studying can take place individually (
	online form in consultation with the dean of the faculty).

STUDENT EVALUATION SCALE

Rating of higher education seekers,	National assessment for the results of compilation		
points	exams	tests	
90 – 100	Perfectly		
74 – 89	Fine	Credited	
60 – 73	Satisfactorily		
0 - 59	Not satisfactorily	Not credited	

Recommended literature Basic literature

- 1. Мельник Ю.Ф. Практикум з розведення сільськогоспогодарських тварин// К.А. Найденко., М.П. Журавель, А.В. Витриховська, М.М. Майборода, Т.В. Литвиненко К.: Видавничий Дім «Слово», 2007. 240 с.
- 2. Розведення сільськогосподарських тварин. Басовський М.З., Буркат В.П., Вінничук Д.Т. та ін.-Біла Церква: БДАУ. 2001.- 400с.

Supporting literature

- 1. Віннічук Д.Т., Майборода М.М., Витрихівська А.В., Найденко К.А. Методичні рекомендації по темі "Генетичні пораметри відбору тварин і якісне групування стада".- К.:УСГА, 1991
- 2. Генетика, селекция и биотехнология в скотоводстве под ред. М.В. Зубца. К. «БМТ», 1997
- 3. Гопка Б.М. Павленко П.М. Конярство. К.:Урожай, 1991
- 4. Державні книги племінних тварин, каталоги
- 5. Зубець М.В., Хмельничий Л.М., Бащенко М.І., Найденко К.А.,Витриховська А.В. А.В. Лінійна оцінка екстер'єру молочних корів. К., НАУ, 2000.
- 6. Інструкції по бонітуванню великої рогатої худоби, свиней, овець
- 7. Кравченко М.А. М'ясні породи худоби. К.: Вища школа, 1979
- 8. Лискун Е.Ф.Экстерьер с.-х. животных.М.: Изд. АН СССРД954
- 9. Найденко К.А., Журавель М.П., Витрихівська А.В., Тимченко О.Г. Родоводи с.-г. тварин. К. НАУ, 1998
- 10. Остапчук П.П. Породи свиней та їх використання. К.: Урожай, 1980
- 11. Происхождение домашних животных.- М.: Сельхозгиз, 1937
- 12. Рибалко З.П., Буркат В.П., Березовський М.Д. Генофонд, оцінка та використання свиней. К.: Асоціація «Україна», 1994
- 13. Супрун І.О. Методичні рекомендації "Основи розведення сільськогосподарських тварин. Тестові завдання". К.: Компринт, 2014
- 14. Супрун І.О. Методичні рекомендації з дисципліни "Розведення с.-г. тварин" "Poultry breeding" Методичні вказівки до виконання лабораторних та самостійних робіт студентами ОКР «Бакалавр» спеціальності 6.110100. «Ветеринарна медицина». К.:Компринт, 2015
- 15. Тимченко О.Г., Витрихівська А.В., Найденко К.А. Молочна продуктивність с.-г. тварин. К. 1998
- 16. Хмельничий Л.М., Супрун І.О. Основи генетики та селекції сільськогосподарських тварин. Аграрна освіта, 2011. –440с. (з грифом Міністерства агропромислової політики і продовольства, лист № 18-1-28/812 від 09.07 2011р.)
- 17. Suprun I. Estimation of agricultural animals productivity. К.:Центр інформаційних технологій, 2009. 33с.
- 18. Suprun I. Estimation of agricultural animals exterior. К.:Центр інформаційних технологій, 2009. 51с.