CABINET OF MINISTERS OF UKRAINE NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES UKRAINE

MASTER'S PROGRAM CURRICULUM

Training specialists since 2013 year

Education and qualification level

Field of knowledge

Training direction Specialization

Master's Degree Programs

Specialization

Master's Degree Program

Term of training

Form of training

Qualification

"Master"

0901 "Agriculture and forestry"

8.09010201 "Technologies of production and processing of livestock products"

Production

"Animal Feeding", "Dairy cattle breeding", "Production and processing of pig breeding products", "Poultry breeding", "Equine husbandry and breeding",

"Animal Genetic Resources", "Apiculture", "Methods of biochemical

research"

Research

"Animal Nutrition and Feed Technology"

1,5 years

Full-time study

Livestock products research engineer

Training of master's performed by

Education and Research Institute

Faculty

of Animal Science and Water Bioresources

of Production and Processing of Animal products

M.A. Kravchenko Department of Animal Genetics, Breeding and Reproductive Biotechnology; Department of Milk, Beef and Pork Production Technology; Professor P.D. Pshenichniy Department of Animal Nutrition and Feed Technology; Department of Horse Breeding, Livestock and Animal Breeding Economics; Department of Poultry and Small Livestock; V.A. Nestervodsky Department of Apiculture; Animal Biochemistry, Production Quality and Safety of Agricultural Products named after Academician M.F. Gulyy.

II. EDUCATIONAL PROCESS PLAN

		Gen amo		kı	Form on the control semest	ge I	(Classroon	n traininį	9		Prac trai	etical ning	wee		
						t)		i	including	5	<i>b</i>	a		First	year	Second year
						jec					Self study	acti	ce		semes	
№	Educational discipline					oro					f st	pra	ıcti	1 s.	2 s.	3 s.
		hours	credits	Exam	Offset	ork (Į	Total	St	ries	and	Seli	ıring	ch pra		unt of a seme	weeks in ster
		Ч	cr	Ξ.	0	Course work (project)	I	Lections	Laboratories	Practices and seminars		Manufacturing practice	Research practice	18	17	10
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	1. NORMATIVE ACADEMIC DISCIPLINES															
			_	discipl		lated t	o natural		raining*			1	1	1	1	
1	Macro-and Microeconomics	108	3	-	2	-	34	17	-	17	74	-	-	-	2	-
2	Organization of agribusiness	108	3	-	1	-	36	18	-	18	72	-	-	2	-	-
3	Processing of livestock products	180	5	1	-	1	54	18	36	-	126	-	-	3	-	-
4	Research methods in animal husbandry	108	3	-	1	-	36	18	18	-	72	-	-	2	-	-
5	Biological productivity of farm animals	180	5	2	-	-	51	17	34	-	129	-	-	-	3	-
6	Modeling of technological processes in animal husbandry	108	3	-	2	2	51	17	34	-	57	-	-	-	3	-
7	Management of technological processes in animal husbandry	144	4	-	3	3	30	10	20	-	114	-	-	-	1	3
8	Modern trends of selection in animal husbandry	108	3	3	-	-	40	20	20	-	68	-	-	-	-	4
9	Feed resources in animal husbandry	144	4	3	-	-	50	20	30	-	94	-	-	-	-	5
10	Labor safety in animal husbandry	36	1	1	1	-	18	18	-	-	18	-	-	1	-	-
11	Civil protection	36	1	-	1	-	18	18	-	-	18	-	-	1	-	-
Tota	1	1260	35	5	5	3	418	191	192	35	842	-	-	9	8	12
	2. ELECTIVE COURSES															
	2.1. University elective courses															
<u> </u>	2.1.1. Cycle of professional and practical training*															
1	Animal nutrition	216	6	1			72	18	54		144	-	-	4	-	-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Physiology of lactation	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
3	Pigs biology	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
4	Poultry biology	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
5	Animal ethology	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
6	Honeybee biology	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
7	Population genetics	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
8	Horse biology	216	6	1	-	-	72	18	54	-	144	-	-	4	-	-
9	Quantitative methods of decision making	144	4	-	1	-	36	18	18	-	108	-	-	2	-	-
10	Information technology in animal husbandry	144	4	-	1	-	36	18	18	-	108	-	-	2	-	-
11	Agricultural policy	144	4	-	1	-	36	18	18	-	108	-	-	2	-	-
12	Foreign language	144	4	-	1	-	36	-	36	-	108	-	-	2	-	-
13	HR management	144	4	-	1	-	36	18	18	-	108	-	-	2	-	-
Tota	l for this training cycle	360	10	1	1	-	108	36	72	-	252	-	-	6	-	-
			2	.1. Stu	dent el	ective	courses									
	Production specialization															
	Master's Degree Program "Animal Genetic Resources"															
1	Special genetics	108	3	1	-	-	54	18	36	ı	54	-	-	3	-	-
2	Animal genetic resources	216	6	2	-	-	68	34	34	ı	148	-	-	-	4	-
3	Biotechnology of animal reproduction	180	5	2	-	-	68	34	34	ı	112	-	-	-	4	-
4	Information systems in animal breeding	72	2	-	2	-	34	17	17	-	38	-	-	-	2	-
5	Special breeding	72	2	3	-	3	30	10	20	-	42	-	-	-	-	3
6	Organization of livestock breeding	72	2	-	3	-	30	10	20	-	42	-	-	-	-	3
Tota	l for this training cycle	720	20	4	2	1	284	123	161	-	436	-	-	3	10	6
				Degree	Progr	am "A	nimal Fe									
1	Experiment planning	108	3	1	-	-	54	18	36	-	54	-	-	3	-	-
2	Feeding of ruminant animals	252	7	2	-	-	85	34	51	-	167	-	-	-	5	-
3	Management of bulky fodder	216	6	2	-	-	85	34	51	-	131	-	-	-	5	-
4	Feeding of monogastric animals	144	4	3	-	3	60	20	40	-	84	-	-	-	-	6
Tota	l for this training cycle	720	20	4	-	1	284	106	178	-	436	-	-	3	10	6
	Master's Degree Program "Dairy cattle breeding"															
1	Maintenance of dairy cattle stock	108	3	1	-	-	54	18	36		54	-	-	3	-	-
2	Feeding of high producing cows	216	6	2	-	-	68	34	34	-	148	-	-	-	4	-
3	Management of milk production	180	5	2	-	-	68	34	34	-	112	-	-	-	4	
4	Production equipment in dairies	72	2	-	2	-	34	17	17	-	38	-	-	-	2	-
5	Intensive technologies of rearing young cattle stock	72	2	3	-	3	30	10	20	-	42	-	-	-	-	3
6	Management and marketing in dairy farming	72	2	-	3	-	30	10	20	-	42	-	-	-	-	3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Tota	l for this training cycle	720	20	4	2	1	284	123	161	-	436	-	-	3	10	6
	Maste	er's Degr	ee Progr	am "P	roduct	ion and	d process	ing of pi	g breedin	g produc	ets"					
1	Production equipment in pig breeding enterprises	108	3	1	-	-	54	18	36	-	54	-	-	3	-	-
2	Reproduction and breeding of pigs	252	7	2	•	-	85	34	51	-	167	-	-	-	5	=.
3	Slaughtering of pigs and processing of pig products	216	6	2	-	-	85	34	51	-	131	-	-	-	5	-
4	Production of pig products	72	2	3	-	3	30	10	20	-	42	-	-	-	-	3
5	Management and marketing in pig breeding	72	2	-	3	-	30	10	20	-	42	-	-	-	-	3
Tota	l for this training cycle	720	20	4	1	1	284	106	178	-	436	-	-	3	10	6
		N	Aaster's	Degree	Progr	am "P	oultry br	eeding"								
1	Incubation of eggs and embryology basics	108	3	1	-	-	54	18	36	-	54	-	-	3	-	-
2	Production of food eggs	216	6	2	-	-	68	34	34	-	148	-	-	-	4	-
3	Pure-strain stock-breeding in poultry farming	180	5	2	-	-	68	34	34	-	112	-	-	-	4	-
4	Feeding of agricultural poultry	72	2	-	2	-	34	17	17	-	38	-	-	-	2	-
5	Production of agricultural poultry meat	72	2	3	-	3	30	10	20	-	42	-	-	-	-	3
6	Management and marketing in poultry farming	72	2	-	3	-	30	10	20	-	42	-	-	-	-	3
Tota	l for this training cycle	720	20	4	2	1	284	123	161	-	436	-	-	3	10	6
	Master's Degree Program "Equine and horse husbandry"															
1	Horse breeds	108	3	1	-	-	54	18	36	-	54	-	-	3	-	-
2	Racetrack and sports training in horse breeding	216	6	2	-	-	68	34	34	-	148	-	-	_	4	-
3	World genetic horse breeding resources	180	5	2	-	-	68	34	34	-	112	-	-	_	4	-
4	Reproduction of horses	72	2	-	2	-	34	17	17	-	38	-	-	-	2	-
5	Pure-strain stock-breeding of horses	72	2	3	-	3	30	10	20	-	42	-	-	-	-	3
6	Stud farming	72	2	-	3	-	30	10	20	-	42	-	-	-	-	3
Tota	l for this training cycle	720	20	4	2	1	284	123	161	-	436	-	-	3	10	6
			Master	r's Deg	ree Pr	ogram	"Apicult	ture"								
1	Technological equipment in apiculture	108	3	1	-	-	54	18	36	-	54	-	-	3	-	-
2	Breeding and keeping of bees	216	6	2	-	-	68	34	34	-	148	-	-	-	4	-
3	Bees' pathology	180	5	2	-	-	68	34	34	-	112	-	-	-	4	-
4	Honey resources and pollination of plants	72	2	-	2	-	34	17	17	-	38	-	-	-	2	-
5	Production, storage and processing of bee products	72	2	3	-	3	30	10	20	-	42	-	-	-	-	3
6	Management and marketing in apiculture	72	2	-	3	-	30	10	20	-	42	-		-	-	3
Tota	l for this training cycle	720	20	4	2	1	284	123	161	-	436	-	-	3	10	6
	Master's Degree Program "Methods of biochemical research"															
1	Special genetics	108	3	-	1	-	54	18	36	-	54	-	-	3	-	-
2	Current methods and devices of biochemical studies	216	6	3	-	-	102	51	51	-	114	-	-	-	6	-
3	Special biochemistry	252	7	3	2	-	88	44	44	-	164	-	-	-	4	2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Quality management in laboratories	144	4	3	-	3	40	10	30	-	104	-	-	-	-	4
Tota	al for this training cycle	720	20	4	2	1	284	123	161	-	436	-	-	3	10	6
]	Resear	ch Spe	cializat	ion								
	Ma	ster's De	egree Pro	gram '	"Anim	al Nut	rition a	nd Feed T	echnolog	y"						
1	Research on animal nutrition	108	3	1	-		54	18	36	-	54	-	-	3	ı	-
2	Physiology of digestion	252	7	2	-		85	34	51	-	167	-	-	-	5	-
3	Evaluation of forage	216	6	2	-		85	34	51	-	131	-	-	-	5	-
4	Animal Feed	144	4	3	-	3	60	20	40	-	84	-	-	-	ı	6
Tota	al for this training cycle	720	20	4	-	1	284	106	178	-	436	-	-	3	10	6
Tota	ıl	1080	30	10	1	4	810	-	-	-	1530	-	•	18	18	18
Prac	etical training	360	10	-	-	•	ı	-	-	-	-	-	-	-	ı	-
Stat	e certification	540	15	-	-	ı		-	-	-	-	-	•	-	ı	-
Amo	ount of course works (projects)	-	-	-	-	15		-	-	-	-	-	•	-	ı	-
Amo	ount of offsets	-	-	-	8	•	ı	-	-	-	-	-	-	-	ı	-
Amo	ount of exams	-	-	10	-	•	ı	-	-	-	-	-	-	-	ı	-
Tota	al number at the training direction	3240	90	-	-	15	810	-	-	-	-	-	-	-	ı	-

^{*} Names of disciplines cycles in accordance with the requirements of higher education industry standards, ratified after 2007 year, EQH and EPP.

III. STRUCTURE OF THE CURRICULUM

Cycle of disciplines	Hours	Credits	%
1. Normative academic disciplines	-	-	-
1.1. Cycle of disciplines related to natural science training	1260	35	39
2. Elective courses	-	ı	-
2.1.1. Cycle of professional and practical training	1080	30	33
2.1. University elective courses	360	10	11
2.1. Student elective courses	720	20	22
3. Other kinds of academic load	900	25	28
Total number at the training direction	3240	90	100

^{*} Names of disciplines cycles in accordance with the requirements o higher education industry standards, ratified after 2007 year, EQH at EPP.

IV. GENERAL TIME BUDGET (weeks)

Training year	Theoretical training	Examination session	Practical Training	Master's thesis preparation	State validation	Vacations	Training year
1	35	4	10	-	-	7	56
2	10	2	-	2	2	1	17
Total	45	6	10	2	2	8	73

V. PRACTICAL TRAINING

№	Type of practice	Semeste r	Hours	Credits	Number of weeks
1	Manufacturing Practice	1	144	4	4
2	Pre-diploma practice	2	216	6	6

VI. COURSE WORK AND PROJECTS

№	Educational discipline	Hours	Credits	Course work	Course project
1	Modeling of technological processes in animal husbandry	36	1	-	1
2	Processing of livestock products Processing of livestock products	36	1	•	1
3	University and student elective courses	36	1	-	1

VII. STATE VALIDATION

№	Validation	Hours	Credits	Number of weeks
1	Defence degree project	540	15	4