

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

Considered and approved by academic council
of NULES of Ukraine
"___" _____ 2013
(Protocol N_____)

"APPROVED"
Rector of NULES of Ukraine
_____ acad. D. Melnychuk
"___" _____ 2013

**CURRICULUM
for 2013/2014 academic years**

Educational qualification level	<u>«Bachelor»</u>
Branch of knowledge	<u>0901 «Agriculture and forestry»</u> <small>(Code and name of the branch of knowledges)</small>
Training direction	<u>6.090103 «Forestry and Park Gardening»</u> <small>(Code and training direction)</small>
Form of study	<u>full-time</u>
Study term	<u>3 years 10 month</u>
Qualification	<u>Bachelor of Forestry and Park Gardening</u>

Subdivisions which provede the bachelor study

ERI	Forestry and Park Gardening
Faculty	Forestry

I. SCHEDULE OF EDUCATIONAL PROCESS

a) training specialists EQL «Bachelor» of 2013 entry year on training direction «Forestry and Park Gardening»

Course	2013																	2014																																							
	September				30	October				28	November				December				30	January				27	February				24	March				31	April				28	May				June				30	July				28	August			
	2	9	16	23	IX	7	14	21	X	4	11	18	25	2	9	16	23	XII	6	13	20	I	3	10	17	II	3	10	17	24	III	7	14	21	IV	5	12	19	26	2	9	16	23	VI	7	14	21	VII	4	11	18	25					
	5				5				XI	2				2				4				1				1				5				3				10				5				2				2							
	7	14	21	28	X	12	19	26	X	9	16	23	30	7	14	21	28	I	11	18	25	II	8	15	22	III	8	15	22	29	IV	12	19	26	V	10	17	24	31	7	14	21	28	VII	12	19	26	VIII	9	16	23	30					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52						
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b) training specialists "Bachelor" of 2013-2014 academic years on training direction "Forestry and Park Gardening"

Course	2013																		2014																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Table legend:

	- theoretical study
:	- exam session
-	- vacation
A	- intermediate attestation

X	- industrial practice
O	- educational practice
II	- thesis writing
//	- state exam and thesis defending

Dean of faculty _____ O.P. Bala

II. PLAN OF EDUCATIONAL PROCESS

Number	Disciplines	Total number		Forms of knowledges control on semesters			Audience employments			Self study	Practical training		Distribution of classroom hours per week by courses and semesters								
											educational practice	industrial practice	I course		II course		III course		IV course		
		Semesters																			
		1	2	3	4	5	6	7	8												
		Number of weeks in semester																			
		17	18	16	18	15	15	15	13												
1. COMPULSORY DISCIPLINES																					
1.1. Cycle of social and humanitarian training*																					
1	Ukrainian language (professional orientation)	108	3,0	2			36			36	72				2						
2	History of Ukraine	108	3,0	1			51	34		17	57			3							
3	History of Ukrainian culture	72	2,0	1			34	17		17	38			2							
4	Foreign language	180	5,0	2	1		122			122	58			4	3						
5	Philosophy	108	3,0	3			64	32		32	44					4					
6	Physical training	288	8,0		1-4		138			138	150			2	2	2	2				
Total for the cycle		864	24,0	5	5		619	156	0	463	347			11	7	6	2	4	0	5	3
1.2. Cycle of fundamental training*																					
1	Higher mathematics	198	5,5	1			102	51		51	96			6							
2	Physics	216	6,0	2			108	54	54		108				6						
3	Chemistry	198	5,5	1	2		104	34	70		94			4	2						
4	Informatics	144	4,0		2		72	36	36		72	36			4						
5	Biometrics	144	4,0	4			72	36		36	72						4				
6	General ecology	90	2,5		3		48	32		16	42					3					
7	Genetics	126	3,5		3		64	32	32		62					4					
8	Technical engineering	72	2,0		2		36	18		18	36				2						
9	Safety of vital functions	72	2,0		4		36	18		18	36						2				
10	Descriptive geometry	108	3,0		1		51	17	34		57			3							
11	Botany	216	6,0	2	1		122	52	70		94	36		4	3						
12	Dendrology I	126	3,5		3	3	64	32	32		62					4					
13	Forest soils	216	6,0	4	3		120	68	52		96	36				3	4				
14	Plant physiology	180	5,0	3			96	48	48		84					6					
15	Geodesy	144	4,0	2			72	36	36		72	72			4						
16	Nature conservation	54	1,5		8		26	13		13	28										2
17	Meteorology	72	2,0		2		36	18	18		36				2						
Total for the cycle		2376	66,0	8	12	1	1229	595	482	152	1147	180		17	23	20	10	0	0	0	2

1.3. Cycle of professional training*																					
1	Forest phytopatology	126	3,5	5			60	30	15	66	18						4				
2	Forest entomology	126	3,5	6			60	30	30	66	18							4			
3	Silvics	162	4,5	5			90	45		45	72						6				
4	Economics of forestry and park gardening	144	4,0	7			75	45	15	15	69								5		
5	Fundamentals of occupational safety	54	1,5	8			26	13	13		28									2	
6	Forest tree breeding	144	4,0		4		72	36	36		72	18				4					
7	Forest zoology	126	3,5	3			64	32		32	62	18				4					
8	Greening of urban areas	108	3,0		6		60	30		30	48							4			
Total for the cycle		990	27,5	6	2		507	261	109	137	483	72		0	0	4	4	10	8	5	2
2. OPTIONAL DISCIPLINES																					
2.1. Disciplines chosen by the university																					
2.1.1. Cycle of professional training*																					
1	Mechanization of forestry operations	198	5,5	5	4	5	99	51	48		99	72					3	3			
2	Fundamentals of hydrotechnical melioration	126	3,5		4, 5	4	66	33		33	60						2	2			
3	Silviculture	162	4,5	6		6	90	45	45		72	72							6		
4	Forest plantations (cultures)	288	8,0	7	6	7	150	75	75		138	72							6	4	
5	Forest mensuration	234	6,5	6	5		120	60	30	30	114	108						4	4		
6	Non-wood forest resources	90	2,5		5		45	15	30		45							3			
7	Forest pyrology	54	1,5		6		30	15		15	24								2		
8	Transportation of wood	54	1,5		8		26	13	13		28										2
9	Forest melioration	144	4,0	7		7	75	30		45	69	36								5	
10	Forest commodity science	108	3,0	6			60	30		30	48								4		
11	GIS technologies in forestry	90	2,5		4		54	18	36		36						3				
12	Microbiology	54	1,5		5		30	15	15		24							2			
13	Fundamentals of construction activity	54	1,5		5		30	15		15	24							2			
14	Organization of forest industry	180	5,0	8			104	52	26	26	76										8
15	Dendrology II	144	4,0	4			72	36	36		72	36					4				
16	Accounting in forestry	90	2,5		7		45	15	30		45									3	
17	Fundamentals of forest harvesting	108	3,0	8			65	26	39		43	36									5
18	Fundamentals of biotechnology	54	1,5		8		26	13	13		28										2
19	Radiobiology	72	2,0		4		36	18	18		36						2				
20	Forest inventory	216	6,0	8	7	8	112	56		56	104									4	4
Total for the cycle		2520	70,0	10	15	6	1335	631	454	250	1185	432		0	0	0	14	16	22	16	21
2.2. Disciplines chosen by the student																					
2.2.1. Cycle of social and humanitarian training*																					
1	Economic theory	108	3,0	5			60	30		30	48							4			
2	Politology	72	2,0		8		39	13		26	33										3
3	Jurisprudence	108	3,0		7		45	15		30	63									3	

4	Sociology	72	2,0		7		30	15		15	42								2	
5	Psychology	54	1,5		8		26	13		13	28									2
Total for the cycle		414	11,5	1	4	0	200	86	0	114	178	0	0	0	0	0	0	4	0	5
2.2. Disciplines chosen by the student (within the study plan)																				
2.2.2. Cycle of professional training*																				
1	Fundamentals of professional training	72	2,0		1		34	34			38	36		2						
2	GIS technologies in forestry	126	3,5	7			60	30	30		66								4	
Total for the cycle		198	5,5	1	1	0	94	64	30	0				2	0	0	0	0	0	4
2.2. Disciplines chosen by the student (outside the study plan)																				
2.2.2. Cycle of professional training*																				
1	Military training	675	18,75		1		450			450	225			8	7	8	7			
2	Training of drivers (category B)	45	1,25	7			0			0	45			15						
3	Cultural and educational activities	162	4,50		8		90	0	90		72			6	6					
Total for the cycle		882	24,50	0	0	0	540	0	90	450	342	0	0	0	0	0	0	0	0	0
Practical training		864	24,0									720	144							
Thesis writing and defending		180	5,0																	
Amount of term papers (projects)		234	6,5																	
Amount of tests		31																		
Amount of examinations		39																		
Total for EQL "Bachelor"		8640	240,0											30	30	30	30	30	30	30

III. STRUCTURE OF CURRICULUM

Educational disciplines	Hours	Credits	%
1. Compulsory disciplines	4230	117,5	49,0
1.1. Cycle of social and humanitarian training*	864	24,0	10,0
1.2. Cycle of fundamental training*	2376	66,0	27,5
1.3. Cycle of professional training*	990	27,5	11,5
2. Optional disciplines	3132	87,0	36,3
2.1. Disciplines chosen by the university	2520	70,0	29,2
2.1.1. Cycle of professional training*	2520	70,0	29,2
2.2. Disciplines chosen by the student	612	17,0	7,1
2.2.1. Cycle of social and humanitarian training*	414	11,5	4,8
2.2.2. Cycle of professional training*	198	5,5	2,3
3. Other types of loading	1278	35,5	14,8
Total for EQL "Bachelor"	8640	240,0	100

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

IV. SUMMARY TIME BUDGET, WEEKS

Course	Theoretical study	Exams	Practical training	Thesis writing	State attestation	Vacation	Total
1	35	4	5			8	52
2	34	4	6			8	52
3	30	4	10			8	52
4	28	4	3	3	2	1	41
Total	127	16	24	3	2	25	197

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Fundamentals of informatics	2	36	1,0	1
2	Fundamentals of professional training	2	36	1,0	1
3	Botany	2	36	1,0	1
4	Geodesy	2	72	2,0	2
5	Machanization of forestry operations	4	72	2,0	2
6	Forest tree breeding	4	18	0,5	0,5
7	Biology of forest animals	4	18	0,5	0,5
8	Forest soils	4	36	1,0	1
9	Dendrology	4	36	1,0	1
10	Industrial training	3	36	1,0	1
11	Forest plantations (cultures)	6	36	1,0	1
12	Forest mensuration	6	108	3,0	3
13	Forest phytopatology	6	18	0,5	0,5
14	Forest entomology	6	18	0,5	0,5
15	Silviculture	6	72	2,0	2
16	Industrial practical training	6	108	3,0	3
17	Fundamentals of forest harvesting	8	36	1,0	1
18	Forest melioration	8	36	1,0	1
19	Forest plantations (cultures)	8	36	1,0	1

VI. TERM PAPERS AND PROJECTS

№	Discipline	Hours	Credits	Term paper	Course project
1	Dendrology I	18	0,5	tp	
2	Machanization of forestry operations	36	1,0		cp
3	Fundamentals of hydrotechnical melioration	36	1,0		cp
4	Silviculture	36	1,0		cp
5	Forest plantations (cultures)	36	1,0		cp
6	Forest melioration	36	1,0		cp

VII. STATE ATTESTATION

№	Component of attestation	Hours	Credits	Amount of weeks
1	State exam	36	1,0	1
2	Thesis defending	144	4,0	5

«CONCERTEDLY»

**Vice-Rector for Academic, Culture
and Educational Activities
Head of Academic Affairs'
Department**

Director ERI

_____ Ridey N.M.

_____ Zazimko O.V.

_____ Lakyda P.I.

«DEVELOPED»

Dean of faculty _____ **Bala O.P.**

