



CREDIT BASED CURRICULUM

(Pursuant to the decision: 3000/QD-DHNL-DT, November -24-2014 of President)

Credit based Training System: Formal Undergraduate (Full - time)

Faculty: Animal Science and Veterinary Medicine

Discipline : Veterinary Medicine

Major: Pharmacology in Veterinary Medicine

Minimum credits : 165 Credits

Minimum GPA: 2.0

No	Module	English subjects	Credits	Total Number	Theory	Practice	Internship	Project	Thesis	Year	SM	Prior study	Prerequisite	Concurrent
I. Fundamental knowledge :														
<i>I.1 Required subjects</i>														
1	202112	Advanced Mathematics B1	2.0	30.0	30.0	0.0	0	0.0	0.0	1	1			
2	202301	General Chemistry	3.0	45.0	45.0	0.0	0	0.0	0.0	1	1			
3	202401	General Biology	2.0	30.0	30.0	0.0	0	0.0	0.0	1	1			
4	202414	Plant Biology	2.0	30.0	30.0	0.0	0	0.0	0.0	1	1			
5	202501	Physical Education 1	1.0	45.0	0.0	45.0	0	0.0	0.0	1	1			
6	214103	General Informatics	3.0	60.0	30.0	30.0	0	0.0	0.0	1	1			
7	200201	Military training (theory)	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2			
8	200202	Military training (practice)	3.0	90.0	0.0	90.0	0	0.0	0.0	1	2			
9	202408	Animal Biology	3.0	60.0	30.0	30.0	0	0.0	0.0	1	2			
10	202502	Physical Education 2	1.0	45.0	0.0	45.0	0	0.0	0.0	1	2	202501		
11	202622	General Law	2.0	30.0	30.0	0.0	0	0.0	0.0	1	2			
12	203500	Statistics in Animal Science & Veterinay Medicine	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2			
13	200106	Phylosophy of Marxism and Leninism	5.0	75.0	75.0	0.0	0	0.0	0.0	2	1			
14	202302	Analytical Chemistry	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1	202301		
15	202305	Analytical Chemistry Laboratory	1.0	30.0	0.0	30.0	0	0.0	0.0	2	1			
16	200104	History of the Communist's Party of Vietnam	3.0	45.0	45.0	0.0	0	0.0	0.0	3	1			
17	200107	Ho Chi Minh Ideology	2.0	30.0	30.0	0.0	0	0.0	0.0	4	2			
Total			41.0	765.0	495.0	270.0	0	0.0	0.0					
<i>I.2 Elective subject - completed 0101/accumulated at least 2 credits : 2 credits</i>														
1	202304	General Chemistry Laboratory	1.0	30.0	0.0	30.0	0	0.0	0.0	1	1			
2	202402	General Biology Laboratory	1.0	30.0	0.0	30.0	0	0.0	0.0	1	1			
3	202620	Communication skills	2.0	30.0	30.0	0.0	0	0.0	0.0	1	1			
4	213813	French 3	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2	213811		
5	202201	General Physics 1	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1			
6	204606	General Meteorology	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1			



Total			11.0	195.0	135.0	60.0	0	0.0	0.0					
<i>I.3 Elective subject - completed 0201/accumulated at least 2 credits : 7 credits</i>														
1	213603	English 1	4.0	60.0	60.0	0.0	0	0.0	0.0	1	1			
2	213811	French 1	4.0	60.0	60.0	0.0	0	0.0	0.0	1	1			
3	213604	English 2	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2	213603		
4	213812	French 2	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2	213811		
Total			14.0	210.0	210.0	0.0	0	0.0	0.0					

II. Fundamental specialized knowledge :

II.1 Required subjects

1	203109	Introduction to Biochemistry	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1		202301	
2	203203	Introduction to Genetics	3.0	60.0	30.0	30.0	0	0.0	0.0	2	1			
3	203211	Veterinary Anatomy 1	3.0	60.0	30.0	30.0	0	0.0	0.0	2	1	202408		
4	203508	Veterinary Histology	2.0	45.0	15.0	30.0	0	0.0	0.0	2	1	202401		
5	203703	Introduction to Animal Sciences	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1			
6	203103	Domestic Animal Physiology I	3.0	60.0	30.0	30.0	0	0.0	0.0	2	2	203109 203211		
7	203212	Veterinary Anatomy 2	2.0	45.0	15.0	30.0	0	0.0	0.0	2	2	203211		
8	203516	Introduction to Microbiology	3.0	60.0	30.0	30.0	0	0.0	0.0	2	2		202401	
9	203915	Research Methodology	2.0	30.0	30.0	0.0	0	0.0	0.0	2	2	203500		
10	211102	Molecular Biology	2.0	30.0	30.0	0.0	0	0.0	0.0	2	2	203203		
11	203100	Biochemistry of Metabolism	3.0	60.0	30.0	30.0	0	0.0	0.0	3	1	203109 203508		
12	203106	Domestic Animal Physiology 2	3.0	45.0	45.0	0.0	0	0.0	0.0	3	1	203103		
13	203465	Animal Nutrition	3.0	45.0	45.0	0.0	0	0.0	0.0	3	1		203109	
14	203507	Veterinary Immunology	3.0	60.0	30.0	30.0	0	0.0	0.0	3	1	203516	203508	
15	203515	Veterinary Microbiology	3.0	45.0	30.0	15.0	0	0.0	0.0	3	1	203516		
16	203404	General Pharmacology	4.0	75.0	45.0	30.0	0	0.0	0.0	3	2	203515 203106		
Total			43.0	780.0	495.0	285.0	0	0.0	0.0					

II.2 Elective subject - completed 0301/accumulated at least 2 credits : 2 credits

1	208453	Basic Marketing	2.0	30.0	30.0	0.0	0	0.0	0.0	2	2			
2	203721	Animal Farm Management	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1			
3	208416	Principles of Management	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1			
4	208414	Farm Management	2.0	30.0	30.0	0.0	0	0.0	0.0	4	2			
Total			8.0	120.0	120.0	0.0	0	0.0	0.0					

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Minimum GPA: 2.0

Page 3

No	Module	English subjects	Credits	Total Number	Theory	Practice	Internship	Project	Thesis	Year	SM	Prior study	Prerequisite	Concurrent
III. Specialized knowledge :														
<i>III.1 Required subjects</i>														
1	203419	Analytical Pharmacology	3.0	60.0	30.0	30.0	0	0.0	0.0	3	2		202301 202302	
2	203504	Veterinary Pathology 1	2.0	30.0	30.0	0.0	0	0.0	0.0	3	2	203103	203508	
3	203517	Design and Analysis of Experiments	3.0	60.0	30.0	30.0	0	0.0	0.0	3	2	203500		
4	203523	Veterinary Pathophysiology	2.0	30.0	30.0	0.0	0	0.0	0.0	3	2	203106	203109	
5	203361	Veterinary Practice in Farm Animals	3.0	135.0	0.0	0.0	135	0.0	0.0	3	3			
6	203111	Clinical Pharmacology	4.0	60.0	45.0	15.0	0	0.0	0.0	4	1	203404 203504		
7	203201	Veterinary Surgery 1	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1		203212	
8	203403	Veterinary Internal Medicine 1	3.0	60.0	30.0	30.0	0	0.0	0.0	4	1	203523		
9	203411	Pharmaceutical Chemistry	4.0	75.0	45.0	30.0	0	0.0	0.0	4	1	203404	202302	
10	203503	Veterinary Epidemiology	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1	203500	203515	
11	203505	Veterinary Parasitology 1	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1	203404	203507	
12	203306	Zoonotic Diseases	2.0	30.0	30.0	0.0	0	0.0	0.0	4	2	203503	203507	
13	203362	Ruminant Infectious Diseases	1.0	15.0	15.0	0.0	0	0.0	0.0	4	2	203503	203507	
14	203402	Veterinary Internal Medicine 2	2.0	30.0	30.0	0.0	0	0.0	0.0	4	2	203403		
15	203412	Pharmaceutical	4.0	75.0	45.0	30.0	0	0.0	0.0	4	2		202301 202302	
16	203418	Medicinal Materials	4.0	75.0	45.0	30.0	0	0.0	0.0	4	2		202301 202302	
17	203157	Pharmaceutical Company Practices	2.0	90.0	0.0	0.0	90	0.0	0.0	4	3	203412	203404	
18	203360	Practice of Infectious Diseases	1.0	30.0	0.0	30.0	0	0.0	0.0	5	1		203503 203507	
19	203363	Infectious Diseases of Poultry	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203503 203507	
20	203406	Veterinary Toxicology	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203404 203523	
21	203519	Infectious Diseases of Swine	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203503	

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Page 4

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													203525	
22	203522	Veterinary Legislation	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1	203306	203503	
23	203916	Canine and Feline Medicine	2.0	45.0	15.0	30.0	0	0.0	0.0	5	1	203403		
Total			56.0	1110.0	630.0	255.0	225	0.0	0.0					
<i>III.2 Elective subject - completed 0401/accumulated at least 2 credits : 4 credits</i>														
1	203912	English for Animal Sciences & Veterinary Medicine	3.0	45.0	45.0	0.0	0	0.0	0.0	2	2			
2	203506	Applied Microbiology in Animal Husbandry	3.0	60.0	30.0	30.0	0	0.0	0.0	3	1	203516	202401	
3	203108	Applied Biotechnology in Veterinary Husbandry	2.0	30.0	30.0	0.0	0	0.0	0.0	3	2	203100		
4	203158	Presentation Skills	2.0	30.0	30.0	0.0	0	0.0	0.0	3	2			
5	203313	Enveronment and Animal Health	2.0	30.0	30.0	0.0	0	0.0	0.0	3	2	203106	203516	
6	203558	Animal Breeding 1	3.0	45.0	30.0	15.0	0	0.0	0.0	3	2	203203		
7	203909	Veterinary Practice	2.0	90.0	0.0	0.0	90	0.0	0.0	3	3			
8	203114	Animal Behavior	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1	203106		
9	203209	Artificial Insemination and Embryo Transfer	2.0	45.0	15.0	30.0	0	0.0	0.0	4	1	203106 203558		
10	203311	Waste Treatment Technology	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1		203516 202301	
11	203509	Bee Science	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1	203516		
12	203525	Veterinary Pathology 2	2.0	45.0	15.0	30.0	0	0.0	0.0	4	1	203504		
13	203720	Laboratory Animal Science	2.0	30.0	30.0	0.0	0	0.0	0.0	4	1		203465 203106	
14	203202	Veterinary Surgery 2	2.0	45.0	15.0	30.0	0	0.0	0.0	4	2	203201		
15	203410	Veterinary Reproduction and Obstetrics	3.0	45.0	30.0	15.0	0	0.0	0.0	4	2	203106		
16	203420	Laboratory Diagnosis	2.0	45.0	15.0	30.0	0	0.0	0.0	4	2		203106 203100	
17	206306	General fish diseases	3.0	60.0	30.0	30.0	0	0.0	0.0	4	2			
18	206307	Shrimp disease	3.0	60.0	30.0	30.0	0	0.0	0.0	4	2			
19	203260	Veterinary Laboratory practice	2.0	60.0	0.0	60.0	0	0.0	0.0	4	3			
20	203261	Veterinary Hospital practice	3.0	135.0	0.0	0.0	135	0.0	0.0	4	3		203201 203403	

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Page 5

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21	203314	Animal Product Inspection	4.0	75.0	45.0	30.0	0	0.0	0.0	5	1		203525 203515	
22	203408	Veterinary Diagnostic Imaging	2.0	45.0	15.0	30.0	0	0.0	0.0	5	1		203212	
23	203524	Veterinary Parasitology 2	2.0	45.0	15.0	30.0	0	0.0	0.0	5	1	203505		
24	203616	Wild Animal	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203106	
25	203705	Introduction to Poultry Production	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203558 203465	
26	203707	Introduction to Swine Production	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203558 203465	
27	203709	Introduction to Ruminant Production	2.0	30.0	30.0	0.0	0	0.0	0.0	5	1		203558 203465	
Total			63.0	1275.0	660.0	390.0	225	0.0	0.0					
<i>III.3 Elective subject - completed 0501/accumulated at least 2 credits : 10 credits</i>														
1	203903	Minimum Undergraduate Report	5.0	75.0	0.0	0.0	0	0.0	75.0	5	2			
2	203907	Undergraduate Report	10.0	150.0	0.0	0.0	0	0.0	150.0	5	2			
Total			15.0	225.0	0.0	0.0	0	0.0	225.0					

Total credits of required subjects : 140 credits

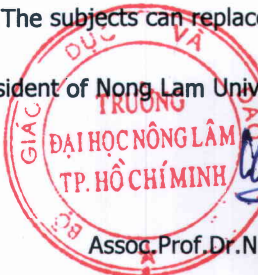
Total credits of elective subjects : 25 credits

(*) Conditional Study Program, Certificates will be issued upon completion

Graduation Methods:

1. Thesis (10 credits)
2. Essay (5 credits) + completion of 5 credits of elective subjects III.2
3. The subjects can replace thesis (Faculty of Animal Science and Veterinary Medicine not applicable)

President of Nong Lam University - Ho Chi Minh City



Assoc. Prof. Dr. Nguyen Hay

Head of Academic Affairs Department

Dr. Tran Dinh Ly

Ho Chi Minh city, November 24-2014
Dean of Faculty of Animal Science and Veterinary Medicine

Assoc. Prof. Dr. Nguyen Tat Toan