

# COURSE CONTENT FOR THE VETERINARY PROGRAM

## Year of Study: 100 Level

## First Semester

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
BIOL 111	Plant Systematics	30	-	-	2	Core	
BIOL 113	Invertebrate/Vertebrate	30	-	-	2	Core	
CHEM 111	Introductory Gen. Chemistry	30	-	-	2	Core	
CHEM 121	Introductory Inorg. Chemistry	30	-	-	2	Core	
CHEM 191	Introductory Chem. Practical	-	-	45	1	Core	
PYHS 131	Heat & Properties of Matter	30	-	-	2	Core	
PHYS 161	General Physics Practical	-	-	45	1	Core	
VMPH 101	Veterinary Ethics	15	-	-	1	Core	
GENS 101	Nationalism				1	Core	
GENS 103	English and Communication Skills				2	Core	
GENS 107	History and Philosophy of Science				1	Core	
<b>ELECTIVES</b>							
MATH 101	Elementary Set Theory	15	-	-	1	ELECTIVE	
STAT 101	Introductory Statistics	15	-	-	1	ELECTIVE	
COSC 101	Programming in Basic	30	-	-	2	ELECTIVE	

## Year of Study: 100 Level

## Second Semester

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
CHEM 112	Introductory Physical Chemistry	30	-	-	2	Core	
CHEM 132	Introductory Organic Chemistry	30	-	-	2	Core	
CHEM 192	Introductory Practical Chemistry II	-	-	45	1	Core	
BIOL 112	Ecology	-	-	45	2	Core	
BIOL 114	Introductory Evolution & Genetics	15	-	45	2	Core	
VMSM 102	Animal Handling	15	-	45	1	Core	
GENS 102	Environmental Health	-	-	-	1	Core Core	
<b>ELECTIVES</b>							
STAT 100	Introductory Statistics	30	-	-	2	ELECTIVE	
PHYS 122	Electricity Magnetism & Modern Physics	30	-	-	2	ELECTIVE	
PHYS 134	Geometric & Wave Optics	15	-	-	1	ELECTIVE	
PHYS 162	General Physics Practical	-	-	45	1	ELECTIVE	

**Year of Study: 200 Level**

**First Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMAN 201	Embryology	30	-	45	3	Core	
VMAN 203	Gross Anatomy of Ruminants	60	-	90	6	Core	
VMPP 201	Cell Biology	15	-	45	2	Core	
VMSM 201	Animal Handling	-	-	45	1	Core	
BCHM 261	Chemistry of Macromolecules	30	-	-	2	Core	
BCHM 247	Introductory Biochem. Lab.	-	-	45	1	Core	
SGRS 201	Moral Philosophy	15	-	-	1	Core	
GENS 101	Nationalism				1	Core	
GENS 103	English and Communication Skills				2	Core	
GENS 107	History and Philosophy of Science				1	Core	
GENS 201	Moral Philosophy				1	Core	
<u>ELECTIVES</u>							

16 Units of Core Courses

**Year of Study: 200 Level**

**Second Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMAN 204	Basic Histology	30	-	45	3	Core	
VMAN 202	Comparative Gross Anatomy	30	-	90	4	Core	
VMAN 206	Avian Anatomy	-	-	45	1	Core	
VMPP 202	Radiation Biology	15	-	45	2	Core	
AERS 212	Rural Soc. & Crop Botany	30	-	-	2	Core	
BCHM 262	General Metabolism I	30	-	-	2	Core	
BCHM 248	Introductory Biochem. Lab.	-	-	45	1	Core	
SGRS 202	Environmental Health	15	-	-	1	Core	
GENS 102	Environmental Health				1	Core	
<u>ELECTIVES</u>							
VMAN 206	Light Microscopy	-	-	45	1	ELECTIVE	
COSC 102	Programming in Basic	30	-	-	2	ELECTIVE	

16 Units of Core Courses and 3 Units of Elective Courses.

**Year of Study: 300 Level****First Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMAN 301	Systemic Histology	30	-	45	3	Core	VMAN 204 VMAN 202, VMPP 201 BIOL 113 BCHM 261, BCHM 247 BIOL 112 BCHM 262
VMPP 301	Veterinary Physiology I	60	-	45	5	Core	
VMPE 301	Introductory Entomology	15	-	45	2	Core	
VMPM 303	Principles of Microbiology	30	-	45	3	Core	
VMPE 303	Veterinary Protozoology	15	-	45	2	Core	
BCHM 361	General Metabolism II	30	-	-	2	Core	
BCHM 367	Basic Biochemistry Lab	-	-	45	1	Core	
ANSC 301	Feeds and Feeding	15	-	45	2	Core	
<b>ELECTIVES</b>							
VMPP 303	General Mammalian Physiol.	30	-	-	2	ELECTIVE	

20 Units of core Courses and 2 Units of Unrestricted Elective Courses

**Year of Study: 300 Level****Second Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMPM 302	General Pathology	30	-	45	3	Core	VMAN 202, VMAN 203 BIOL 113 BCHM 261, BCHM 247 BCHM 262
VMPP 302	Veterinary Physiology II	45	-	45	4	Core	
VMPE 302	Veterinary Helminthology	30	-	45	3	Core	
VMPM 304	Pathogenic Bacteriology	45	-	90	5	Core	
BCHM 362	General Metab. In Ruminants	30	-	-	2	Core	
VMPH 300	Computer in Vet. Epidemiology	-	-	45	1	Core	
<b>ELECTIVES</b>							
VMPE 306	Princ. Of Parasitology Diagnosis	-	-	45	1	ELECTIVE	

18 Units of Core Courses and 1 Unit of Elective Course

**Year of Study: 400 Level****First Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMPM 401	Clinical Pathology	30	-	45	3	Core	BCHM 326,MPM 302 VMPM 302,VMAN 302 VMPM 304 VMPP 301,VMPP 302 VMPP 301,VMPP 302  VMPE 301
VMPM 403	Systemic Pathology	45	-	45	4	Core	
VMPM 405	Virology	15	-	45	2	Core	
VMSM 403	Principles of Surgery	15	-	45	2	Core	
VMPP 401	Introductory Pharmacology	30	-	45	3	Core	
ANSC 441	Animal Nutrition	30	-	45	2	Core	
ANSC 446	Pasture Production	15	-	-	2	Core	
VMPE 403	Vet. Applied Entomology	15	-	45	2	Core	
<b>ELECTIVES</b>							
VMAN401	Exptl. Chromos. & Expol. Cytol.	15	-	45	2	ELECTIVE	

20 Units of Core Courses and 2 Units of elective Courses

**Year of Study: 400 Level****Second Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMPM402	Pathology of Infectious Dis.	45	-	45	4	Core	VMPM 302,VMPM 304 VMPE 301,VMPE 303 VMPM 302,VMPM 304 VMPP 301,VMPP 302 ANSC 301 VMPM 302VMPP 301 VMPP 301,VMPP 302 VMAN 203
VMPP402	Therapeutics	30	-	-	2	Core	
VMPM404	Immunology	15	-	45	2	Core	
VMPP404	Veterinary Toxicology	30	-	45	3	Core	
VMSM402	Livestock k Economics	30	-	-	2	Core	
VMSM406	Principles of Mediciene	45	-	45	4	Core	
VMSM404	Veterinary Anaesthesiology	15	-	-	1	Core	
VMAN402	Applied Anatomy	15	-	-	1	Core	
<b>ELECTIVES</b>							
VMPP 406	Ethnoveterinary Medicine	15	-	-	1	ELECTIVE	

19 Units of Core Courses and 1 Unit of elective Course

**Year of Study: 500 Level****First Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMSM501	Bacterial Diseases	45	-	-	3	Core	VMPM 303, VMSM 402 VMPE 303, VMPE 302 BCHM 326, ANSC 441 VMPM 403, VMSM 405 VMAN 402, VMSM 403 VMSM 406, VMPM 404 VMSM 403, VMSM 404
VMSM503	Parasitic Diseases	30	-	-	2	Core	
VMSM505	Nutritional & Metabolism Disease	15	-	-	1	Core	
VMSM507	Theriogenology I	30	-	45	3	Core	
VMSM509	Large Animal surgery	45	-	45	4	Core	
VMSM511	Small Animal Medicine I	30	-	-	2	Core	
VMSM513	Small Animal Soft Tissue Surgery	30	-	-	2	Core	
VMPH501	Biostatistics	30	-	-	2	Core	
VMPM503	Epidemiology	30	-	-	2	Core	
<b>ELECTIVES</b>							
VMPM501	Teratology	30	-	-	2	ELECTIVE	

21 Units of Core Courses and 2 Units of elective Courses

**Year of Study: 500 Level****Second Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite
		Lecture	Tutorial	Practical			
VMSM 502	Viral Diseases	45	-	-	3	Core	VMPM 302, VMSM 405 VMPM 405 VMSM 406 VMPM 403 VMPM 401, VMAN 402 VMSM 406 VMPM 403 VMPM 302, VMPP 403 VMSM 405, VMPM 401 VMPM 404, VMSM 406 VMPE 302, VMPM 304 VMSM402, VMSM 406
VMSM 504	Theriogenology II	30	-	-	3	Core	
VMSM 506	Small Animal Orthopedic Surgery	30	-	45	3	Core	
VMSM 508	Veterinary Radiology	15	-	45	3	Core	
VMSM 510	Small Animal Medicine II	30	-	45	2	Core	
VMPH 502	Preventive Medicine	30	-	-	2	Core	
VMPH 504	Food Hygiene	45	-	-	2	Core	
VMPM 502	Avian Diseases & Production	30	-	-	3	Core	
			-	45	3	Core	
<b>ELECTIVES</b>							
VMPH 502	Animal Dis. Surveillance & Rep.	30	-	-	2	ELECTIVE	
VMPM 504	Microbiology in Health & Disease	30	-	-	2	ELECTIVE	

21 Units of Core Courses and 4 Units of Elective

**Year of Study: 600 Level****First Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite	
		Lecture	Tutorial	Practical				
VMPH 601	Zoonoses	45	-	-	3	Core	VMPH 503, VMPH 504 VMPE 403, VMPP 402 VMPP 402, VMSS 406 VMSS 201, VMSS 406 All Core Courses (200L – 500L)	
VMPP 601	Laboratory Animal Diseases	15	-	-	1	Core		
VMPH 601	Applied Pharmacology	30	-	-	2	Core		
VMSM 601	Diseases of Wildlife & Fisheries	15	-	-	1	Core		
VMSM 605	Large Animal Practice	-	-	180	4	Core		
VMSM 607	Small Animal Practice	-	-	135	3	Core		
VMSM 609	Clinical Conference	15	-	-	1	Core		
VMPP 603	Necropsy Avian Clinics	-	-	45	1	Core		
VMPH 605	Public Health Clinics	-	-	45	1	Core		
VMPE 601	Laboratory Medicine Clinics	-	-	45	1	Core		
VMPP 600	Research Project	-	-	90	4	Core		
<b>ELECTIVES</b>								
VMSM 603	Techn. In Artificial Insemination	-	-	45	1	ELECTIVE		VAMN 201, VMPP 301 VMPH 502
VMPH 603	Livestock Insurance	15	-	-	1	ELECTIVE		
VMAN 601	Clinical Neurology	15	-	-	1	ELECTIVE		

22 Units of Core Courses and 3 Units of Elective Courses

**Year of Study: 600 Level****Second Semester**

Course Code	Course Title	Contact Hours			Credit Units	Course Status	Remarks/ Pre-requisite	
		Lecture	Tutorial	Practical				
VMPH 602	State Medicine & Jurisprudence	15	-	-	1	Core	VMPH 504, VMPH 504 All Core Courses (200L – 500L)	
VMSM 606	Large Animal Practice	-	-	225	5	Core		
VMSM 608	Small Animal Practice	-	-	180	4	Core		
VMSM 610	Clinical Conference	15	-	-	1	Core		
VMPP 604	Necropsy/Avian Clinics	-	-	45	1	Core		
VMPH 604	Public Health Clinics	-	-	45	1	Core		
VMPE 602	Laboratory Medicine Clinics	-	-	45	1	Core		
VMPP 600	Research Project	-	-	90	4	Core		
VMSM 602	Large Animal Lameness	15	-	45	2	Core		
VMSM 604	Veterinary Practice Management	30	-	-	2	Core		
<b>ELECTIVES</b>								
VMSM 604	Intro. Herd Health Management	15	-	-	1	ELECTIVE		VMSM 501, VMSM 505

22 Units of Core Courses and 1 Unit of Elective Course.