

## Doctor of Veterinary Medicine – Curriculum Chart

### Term 1

Courses	Credits	Code	Prerequisites	Type
Biochemistry 1	۲			
Biochemistry Practice	۱			
Systematic Anatomy 1	۳			
Biostatistics 1	۲			
Animal Rights and Ethics in Veterinary Medicine	۱			
Foundations Cellular and Molecular Biology	۲			
Persian Language	۳			
English Language	۳			
Islamic Thought 1	۲			
Physical Education 1	۱			
<b>Total Credits</b>	<b>۲۰</b>			

### Term 2

Courses	Credits	Code	Prerequisites	Type
Biochemistry 2	۳		Biochemistry 1	
Histology 1	۳		-	
Systematic Anatomy 2	۳		Systematic Anatomy 1	
Ichthyology	۲		-	
English for Students of Veterinary Medicine	۲		General English	
Islamic Thought 2	۲		Islamic Thought 1	
Physical Education 1	۱		Physical Education	
Knowledge of Family and Population	۲		-	
Islamic Revolution	۲		-	
<b>Total Credits</b>	<b>۲۰</b>			

Term 3

Courses	Credits	Code	Prerequisites	Type
Histology 2	۳		Histology 1	
Comparative Embryology	۱		Systematic Anatomy 2	
Physiology 1 and 2	۶		Foundations of Cellular and Molecular Biology - Histology 1 - Biochemistry 1 and 2 - Systematic Anatomy 1 and 2 - Physiology 1	
(Chemical) Food Health Control	۲		Biochemistry 2	
Molecular Identification Methods	۲		Foundations of Cellular and Molecular Biology	
Foundations and Applications of Stem Cells	۱		Histology 2	
Islamic Ethics	۲		-	
Analytical History of Early Islam	۲		-	
<b>Total Credits</b>	<b>۱۹</b>			

Term 4

Courses	Credits	Code	Prerequisites	Type
Livestock Breeding	۳		Physiology 3	
General Pathology	۴		Biochemistry - Physiology 3 - Histology 2 - General Bacteriology	
General Bacteriology	۳		Biochemistry 2	
Principles of Livestock and Poultry Nutrition	۳		Biochemistry 2 - Physiology 2	
Physiology 3	۲		Physiology 2 - Histology 2	
Reproduction and Breeding of Fish	۲		Ichthyology	
Physiology Practice	۱		Physiology 3 (corequisite)	
Thematic Commentary of the Holy Quran	۲		-	
<b>Total Credits</b>	<b>۲۰</b>			

Term 5

Courses	Credits	Code	Prerequisites	Type
Pharmacology 1	۲		Physiology 3	
Special Bacteriology and Diseases	۴		General Bacteriology - Basic Immunology	
Basic Immunology	۳		Biochemistry 2 - Physiology 3 - General Pathology - General Bacteriology	
Special Pathology	۴		General Pathology	
Mycology, Mycotoxins and Diseases	۳		Basic Immunology	
Poultry Farming	۳		Physiology 3 - Systematic Anatomy 1 and 2	
Special Poultry Nutrition	۱		Principles of Livestock and Poultry Nutrition	
<b>Total Credits</b>	<b>۲۰</b>			

Term 6

Courses	Credits	Code	Prerequisites	Type
Protozoan and Diseases	۲		Pharmacology 1 - Basic Immunology	
Roundworms and Diseases	۲		Pharmacology 1 - Basic Immunology	
Pharmacology 2	۲		Pharmacology 1	
Pharmacology Practice	۱		Pharmacology 1	
Toxicology	۲		Physiology 3 - Pharmacology 2 - Special Pathology	
Food Health Quality Control	۲		Special Bacteriology - Virology - Mycology - Parasitology and Diseases	
Virology and Diseases	۴		Basic Immunology	
Topographic Anatomy	۳		Systematic Anatomy 1 and 2	
Honey Bee Health and Farming	۲		Special Bacteriology - Virology - Mycology	
<b>Total Credits</b>	<b>۲۰</b>			

Term 7

Courses	Credits	Code	Prerequisites	Type
Flat worms and Diseases	५		Pharmacology 1 - Basic Immunology	
Arthropods and Diseases	५		Pharmacology 1 - Basic Immunology	
Principles of Clinical Pharmacology	-		Pharmacology 2	
Milk Industry and Health	५		Special Mycology and Diseases - Virology and Diseases - Mycology and Mycotoxins and Diseases - Parasitology and Diseases	
Livestock, Poultry and Aquatics-Based Food Industry	५		Biostatistics - Special Bacteriology and Diseases - Virology and Diseases - Mycology and Mycotoxins and Diseases - Parasitology and Diseases	
Principles of Epidemiology	५		Anatomy 2 - Physiology 3 - Special Pathology	
Principles of Small Animals Examination	१		Anatomy 2 - Physiology 3 - Special Pathology	
Principles of Large Animals Examination	५		Reproduction and Breeding of Fish - Virology and Diseases - Parasitology and Diseases - General Pathology	
Fish Health and Diseases	३		Principles of Epidemiology	
Veterinary and Public Health	५		Pharmacology 1 - Basic Immunology	
<b>Total Credits</b>	<b>५०</b>			

## Term 8

Courses	Credits	Code	Prerequisites	Type
Clinical Pathology	۴		Biochemistry 2 - Special Pathology	
Poultry Health and Diseases	۴		Special Mycology and Diseases - Mycology and Mycotoxins and Diseases - all the courses of Mycology and Diseases	
Principles of Surgery in Veterinary Medicine	۲		Principles of Large Animals Examination - Principles of Small Animal Examination - Principles of Clinical Pharmacology	
Principles of Anesthesiology	۱		Principles of Clinical Pharmacology	
Diagnostic Imaging in Veterinary Medicine	۲		Principles of Surgery in Veterinary Medicine - Principles of Clinical Pharmacology - Livestock Farming	
Midwifery in Veterinary Medicine	۴		Special Pathology	
Meat Health and Inspection	۳		Biochemistry 2 - Special Pathology (or corequisite)	
<b>Total Credits</b>	<b>۲۰</b>			

## Term 9

Courses	Credits	Code	Prerequisites	Type
Internal Diseases of Large Animals 1	۲		Clinical Pathology	
Vaccines and Biological Compounds	۱		Pharmacology 2	
Metabolic Diseases and Nutritional Deficiencies in Large Animals	۲		Principles of Livestock and Poultry Nutrition	
Internal Diseases of Small Animals 1	۳		Clinical Pathology - Diagnostical Imaging in Veterinary Medicine	
Disaster and Emergency Medicine in Veterinary Medicine	۱		Veterinary Medicine and Public Health	
Reproduction Diseases and Mammary Tumors in Livestock	۳		Midwifery in Veterinary Medicine	
General Surgery of Large Animals	۳		Principles of Surgery in Veterinary Medicine - Principles of Anesthesiology	
General Surgery of Small Animals	۲		Principles of Surgery in Veterinary Medicine - Principles of Anesthesiology	
Large Animals Poisoning	۱		Toxicology	
<b>Total Credits</b>	<b>۱۸</b>			

Term 10

Courses	Credits	Code	Prerequisites	Type
Principles of Artificial Insemination of Livestock	۱		Midwifery and Reproduction Diseases in Veterinary Medicine	
Principles of Autopsy and Sampling	۲		Special Pathology	
Diagnostic Parasitology	۲		all the courses of Parasitology and Diseases	
Foundations of Research Methodology	۲		Biostatistics 1 - Principles of Epidemiology	
Reproduction Diseases of Carnivores	۱		Midwifery in Veterinary Medicine	
Lameness in Large Animals	۱		Principles of Surgery in Veterinary Medicine - Principles of Anesthesiology	
Newborn Diseases in Large Animals	۱		Internal Diseases of Large Animals 1	
Large Internal Diseases of Large Animals 2	۲		Clinical Pathology	
Health, Nutrition and Maintenance of Small Animals	۱		Principles of Livestock and Poultry Nutrition	
Health, Diseases, and Raising Exotic Pets	۱		Clinical Pathology - Diagnostic Imaging in Veterinary Medicine	
Food Preservation	۲		Food Health and Quality Control (Microbial and Chemical)	
<b>Total Credits</b>	<b>۱۶</b>			

Term 11

Courses	Credits	Code	Prerequisites	Type
Clinical Medicine Internship of Large Animals 1	۱		Internal Diseases of Large Animals 1 and 2	
Clinical Medicine Internship of Small Animals 1	۱		Internal Diseases of Small Animals 1	
Diagnostic Imaging Internship 1	۱		Diagnostic Imaging in Veterinary Medicine	
Birds Health and Diseases Internship	۱		Poultry Health and Diseases	
Clinical Diagnostic Internship	۱		Clinical Pathology	
Surgery Internship of Large Animals 1	۱		General Surgery of Large Animals	
Surgery Internship of Small Animals 1	۱		General Surgery of Small Animals	
Midwifery Internship	۱		Reproduction Diseases and Mammary Tumors	
Autopsy Internship	۱		Principles of Autopsy and Sampling	
Ornamental Birds Health and Diseases	۲		Poultry Health and Diseases	
<b>Total Credits</b>	<b>۱۱</b>			

Term 12

Courses	Credits	Code	Prerequisites	Type
Clinical Medicine Internship of Large Animals 2 and 3	۲		Clinical Medicine Internship of Large Animals 1	
Clinical Medicine Internship of Small Animals 2 and 3	۲		Clinical Medicine Internship of Small Animals 1	
Birds Health and Disease Internship 2	۱		Birds Health and Diseases Internship 1	
Surgery Internship of Large Animals 2 and 3	۲		Surgery Internship of Large Animals 1	
Surgery Internship of Small Animals 2	۱		Surgery Internship of Small Animals 1	
Midwifery Internship 2 and 3	۲		Midwifery Internship 1	
<b>Total Credits</b>	<b>۱۰</b>			