

## BSc in Veterinary Laboratory Science – Curriculum Chart

### Term 1

Courses	Credits	Code	Prerequisites	Type
General Physiology	۲			
Anatomy	۳			
Cytology	۲			
Principles of Protection and Safety in Laboratories	۱			
General Chemistry	۲			
General Persian	۳			
English Language	۳			
Students Life Skills	۲			
<b>Total Credits</b>	<b>۱۸</b>			

### Term 2

Courses	Credits	Code	Prerequisites	Type
General Biochemistry	۳		-	
Special Physiology	۳		General Physiology	
Histology	۳		Anatomy - Cytology	
General Bacteriology	۲		General Biochemistry - Cytology	
English Language for Students of Veterinary Laboratory Science	۲		General English	
Regulations, Management, and Professional Ethics in Laboratories	۲		-	
Islamic Thought 1	۲		-	
Physical Education 1	۱		-	
<b>Total Credits</b>	<b>۱۸</b>			

### Term 3

Courses	Credits	Code	Prerequisites	Type
Genetics	۱		-	
Biostatistics	۲		-	
Special Bacteriology	۳		General Bacteriology	
Immunology and Serology	۳		General Biochemistry - Special Physiology	
Pharmacology	۲		General Physiology	
Principles of Laboratory Equipment Quality Control	۲		Principles of Safety and Protection in Laboratories	
Livestock Feed Analysis	۲		General Biochemistry	
Physical Education 2	۱		-	
Islamic Thought 2	۲		-	
<b>Total Credits</b>	<b>۱۸</b>			

## Term 4

Courses	Credits	Code	Prerequisites	Type
Laboratory Animals	۳		-	
Virology	۳		General Biochemistry - Cytology	
Parasitology (Single Cell)	۲		General Biochemistry - Cytology - General Physiology	
Parasitology (Nematodes)	۲		General Biochemistry - Cytology - General Physiology	
Principles of Epidemiology	۲		Biostatistics	
Toxicology	۳		General Biochemistry - Special Physiology	
Molecular Biology	۲		General Biochemistry	
<b>Total Credits</b>	<b>۱۷</b>			

## Term 5

Courses	Credits	Code	Prerequisites	Type
Pathology	۳		Histology - General Physiology	
Foundations and Applications of Stem Cells	۱		General Chemistry - General Biochemistry	
Molecular Diagnosis	۲		Molecular Biology	
Food Chemistry	۲		General Biochemistry	
Clinical Pathology	۳		General Biochemistry - General Physiology	
Parasitology (Trematodes and Cestodes)	۲		Cytology - General Biochemistry - General Physiology	
Parasitology (Arthropods)	۲		Cytology - General Biochemistry - General Physiology	
Analytical History of Early Islam	۲		-	
<b>Total Credits</b>	<b>۱۷</b>			

## Term 6

Courses	Credits	Code	Prerequisites	Type
Food Microbiology	۳		General Bacteriology - Virology - Mycology	
Diagnostic Techniques of Bacteriology	۱		Special Bacteriology	
Diagnostic Techniques of Virology	۱		Special Virology	
Diagnostic Techniques of Immunology and Serology	۱		Immunology and Serology	
Mycology	۲		Cytology - General Biochemistry	
Principles of Autopsy and Sampling	۲		Anatomy - Pathology	
Diagnostic Center Laboratory Internship 1	۲		-	
Knowledge of Family and Population	۲		-	
Islamic Revolution	۲		-	
<b>Total Credits</b>	<b>۱۶</b>			

## Term 7

Courses	Credits	Code	Prerequisites	Type
Principles of Health and Inspection of Meat and Animal Products	٣		Introduction to Livestock Diseases - Transmissible Diseases between Humans and Animals	
Anatomical Specimens Sampling Techniques	١		Anatomy	
Livestock Reproduction Techniques	١		-	
Introduction to Livestock Diseases	٣		Parasitology - Bacteriology - Virology - Mycology - Pathology - Pharmacology	
Pharmacology and Biological Products	١		Pharmacology	
Diagnostic Techniques of Parasitology (Protozoa and Arthropods)	١		Parasitology of Protozoa and Arthropods	
Diagnostic Center Laboratory Internship 2	٢		-	
Project	٢		-	
Research Methodology and Writing	٢		-	
Islamic Ethics	٢		-	
<b>Total Credits</b>	<b>١٨</b>			

## Term 8

Courses	Credits	Code	Prerequisites	Type
Laboratory Sampling Methods	١		-	
Diagnostic Techniques of Toxicology	١		Toxicology	
Diagnostic Techniques of Parasitology (Worms)	١		Parasitology of Nematodes, Trematodes and Cestodes	
Transmissible Diseases between Humans and Animals	١		Parasitology - Bacteriology - Virology - Mycology - Pathology - Pharmacology	
Principles of Passive Defense and Disaster Management in Veterinary Medicine	١		-	
Diagnostic Techniques of Mycology	١		Mycology	
Veterinary Medicine and Public Health	١		-	
Food Preservation Methods	٢		-	
Diagnostic Center Laboratory Internship 3	٢		-	
Project	٢		-	
Thematic Commentary of the Holy Quran	٢		-	
<b>Total Credits</b>	<b>١٥</b>			