



University of Mosul  
College of Veterinary Medicine



## Academic Program Description

**University Name: University of Mosul**

**Faculty/Institute: College of Veterinary Medicine**

**Academic Program Name: Bachelor in Veterinary Medicine and Surgery**

**Final Certificate Name: Bachelor in Veterinary Medicine and Surgery**

**Academic System: Semesters**

**Description Preparation Date: 1/9/2023**

**File Completion Date: 1/9/2023**

**Signature:**

**Head of Department Name:**

**Prof. Dr. Dhafer Mohammad Aziz**

**Date: 1/9/2023**

**Signature:**

**Scientific Associate Name:**

**Prof. Dr. Raad Abdul Ghani Bashir**

**Date: 1/9/2023**

**The file is checked by:**

**Department of Quality Assurance and University Performance**

**Director of the Quality Assurance and University Performance Department:**

**Prof. Dr. Ammar Mahmood Ahmed**

**Date: 1/9/2023**

**Signature:**



**Approval of the Dean**

**Prof. Dr. Dhafer Mohammad Aziz**

### **1. Program Vision**

Excellence and creativity in the field of veterinary sciences in accordance with international standards and leadership in veterinary education and scientific research to ensure animal health and livestock development with a healthy environment.

### **2. Program Mission**

Preparing graduates of veterinarians and scientific staff specialized in medical sciences and veterinary surgery to contribute to the prevention of diseases of animals, the diagnosis and treatment of diseases, the preservation and development of livestock, as well as the fight against common diseases and environmental pollution.

### **3. Program Objectives**

1. Teaching the students various medical sciences and veterinary surgery during five consecutive years.
2. Providing clinical services by faculty professors and with the participation of students in the diagnosis and treatment of animal diseases.
3. Providing advice to animal owners, livestock projects and poultry farming on the best ways to manage, develop and improve animal projects.
4. Maintaining human health by controlling common diseases that are transmitted from animals to humans.
5. Holding continuing education courses in various specialties of veterinary medicine for veterinarians to increase and develop their scientific and clinical information to serve the community.
6. Conducting scientific research in various fields of veterinary medicine and working to solve the problems facing livestock in the country.
7. Developing and graduating a qualified scientific cadre for teaching and scientific research in various veterinary specialties.
8. Improving the environment by controlling environmental pollution, which reflects positively on human health.

### **4. Program Accreditation**

No

### **5. Other external influences**

There is no external sponsor.

## 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	<b>5</b>	<b>10</b>	<b>7 %</b>	<b>Basic</b>
College Requirements	<b>66</b>	<b>270</b>	<b>91.7 %</b>	<b>Basic</b>
Department Requirements	-			
Summer Training	<b>1</b>	<b>15</b>	<b>1.3 %</b>	<b>Basic</b>
Other	-			

\* This can include notes whether the course is basic or optional.

## 7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
<b>First Year</b> First Semester	<a href="#">VEA1101</a>	Anatomy - 1	2	3
	<a href="#">VEH1103</a>	Animal Management - 1	2	2
	<a href="#">VEA1102</a>	Biology - 1	2	2
	<a href="#">VED1004</a>	Computer Science - 1	1	2
	<a href="#">VEH1001</a>	Democracy and Human Rights	2	-
	<a href="#">VEP1003</a>	English Language	1	-
	<a href="#">VEP1104</a>	General Chemistry - 1	2	2
	<a href="#">VEM1106</a>	Biorisks Management	1	-
<b>First Year</b> Second Semester	<a href="#">VEA1106</a>	Anatomy - 2	2	3
	<a href="#">VEH1107</a>	Animal Management - 2	2	2
	<a href="#">VED1106</a>	Biology - 2	2	2
	<a href="#">VED1005</a>	Computer Science - 2	1	2
	<a href="#">VEP1109</a>	General Chemistry - 2	2	2
	<a href="#">VEH1108</a>	Poultry Management	1	2
	<a href="#">VEP1002</a>	Arabic Language	1	-
<b>Second Year</b> First Semester	<a href="#">VEA2101</a>	Anatomy - 1	2	2
	<a href="#">VEH2105</a>	Animal Nutrition - 1	2	2
	<a href="#">VEP2104</a>	Biochemistry - 1	3	2
	<a href="#">VEA2102</a>	Histology - 1	2	3
	<a href="#">VEP2103</a>	Physiology - 1	4	2
	<a href="#">VEH2106</a>	Genetics	2	-
<b>Second Year</b> Second Semester	<a href="#">VEA2107</a>	Anatomy - 2	2	2
	<a href="#">VEH2111</a>	Animal Nutrition - 2	2	2
	<a href="#">VEP2110</a>	Biochemistry - 2	3	2
	<a href="#">VEA2108</a>	Histology - 2	2	3
	<a href="#">VEP2109</a>	Physiology - 2	4	2
	<a href="#">VEH2113</a>	Statistics	2	2
	<a href="#">VEA2112</a>	Embryology	2	-
<b>Third Year</b> First Semester	<a href="#">VEM3104</a>	General Microbiology	3	2
	<a href="#">VED3100</a>	General Pathology	3	3
	<a href="#">VEM3102</a>	Helminthology	3	2
	<a href="#">VEM3115</a>	Immunology	2	2
	<a href="#">VEP3101</a>	Pharmacology - 1	3	2
	<a href="#">VEH3116</a>	Toxicology	2	-

<b>Third Year</b> Second Semester	<a href="#">VEM3122</a>	Protozoa and Arthropod	3	2
	<a href="#">VEM3124</a>	Special Microbiology	3	2
	<a href="#">VED3120</a>	Systemic Pathology	3	3
	<a href="#">VEP3121</a>	Pharmacology - 2	3	2
	<a href="#">VEM3126</a>	Virology	2	2
	<a href="#">VEC3127</a>	Veterinary Clinic	-	2
<b>Fourth Year</b> First Semester	<a href="#">VED4119</a>	Clinical Pathology - 1	1	2
	<a href="#">VED4113</a>	Female Fertility	2	2
	<a href="#">VED4117</a>	Infectious Diseases - 1	3	-
	<a href="#">VED4110</a>	Internal Medicine - 1	3	-
	<a href="#">VED4111</a>	Morbid Anatomy - 1	1	2
	<a href="#">VED4114</a>	Poultry Diseases - 1	2	2
	<a href="#">VED4115</a>	Surgery - 1	3	2
	<a href="#">VEC4112</a>	Veterinary Clinic - 1	-	4
<b>Fourth Year</b> Second Semester	<a href="#">VED4127</a>	Clinical Pathology - 2	1	2
	<a href="#">VED4126</a>	Infectious Diseases - 2	3	-
	<a href="#">VED4128</a>	Internal Medicine - 2	3	-
	<a href="#">VED4121</a>	Morbid Anatomy - 2	1	2
	<a href="#">VED4124</a>	Poultry Diseases - 2	2	2
	<a href="#">VED4125</a>	Surgery - 2	3	2
	<a href="#">VEC4123</a>	Veterinary Clinic - 2	-	4
	<a href="#">VED4122</a>	Veterinary Obstetrics	2	2
	<a href="#">VED4107</a>	Zoonotic Diseases	2	-
<b>Fifth Year</b> First Semester	<a href="#">VED5110</a>	Fish Diseases	2	2
	<a href="#">VED5113</a>	Internal Medicine - 1	3	-
	<a href="#">VEC5111</a>	Male Fertility	1	2
	<a href="#">VEH5114</a>	Meat Hygiene	2	2
	<a href="#">VEC5115</a>	Surgery - 1	2	2
	<a href="#">VEC5112</a>	Veterinary Clinic - 1	-	14
<b>Fifth Year</b> Second Semester	<a href="#">VED5120</a>	Internal Medicine - 2	3	-
	<a href="#">VEH5121</a>	Milk Hygiene	2	2
	<a href="#">VEC5117</a>	Reproductive Biotechnology	1	2
	<a href="#">VEC5123</a>	Surgery - 2	2	2
	<a href="#">VEC5118</a>	Veterinary Clinic - 2	-	12
	<a href="#">VEC5119</a>	Veterinary Ethics	1	-
	<a href="#">VED5122</a>	Veterinary Forensic Medicine	1	-
	<a href="#">VEC5125</a>	Research Projects	1	1
<a href="#">VEC5109</a>	Summer Clinic	-	15	

## 8. Expected learning outcomes of the program

Knowledge	
A1. Knowledge of the basic anatomy of animals.	
A2. Knowledge of animal production, animal husbandry.	
A3. Knowledge of animal diseases and their causes.	
A4. Knowledge of animal treatment and preventing diseases.	
Skills	
B1. Find out the methods of administration of the medication in various animals; orally and intramuscular, subcutaneous or intravenous injection.	
B2. Knowledge of surgical operation techniques.	
B3. Examining the dead animals, conducting a pathological autopsy and taking	
B4. Knowledge of pregnancy diagnosis and obstetrics in farm animals.	
Ethics	
C1. Deal sincerely with animal breeders, professional colleagues and competent authorities.	
C2. Work professionally with respect to the professional and legal responsibilities of the veterinarian and understand and apply the laws on the ethics of the veterinary profession.	
C3. Not to be affected by economic and emotional pressures when making decisions.	
C4. Provide emergency care for all kinds of animals.	

## 9. Teaching and Learning Strategies

- Theoretical lectures.
- Practical work in laboratory.
- Practical classes utilizing live animals.
- Practice in the University Veterinary Clinic.

## 10. Evaluation methods

- Written Examination.
- Practical Examination.
- Objective Structured Practical Veterinary examination (OSPVE).

<b>11. Faculty</b>						
<b>Faculty Members</b>						
<b>Academic Rank</b>	<b>Specialization</b>		<b>Special Requirements/Skills (if applicable)</b>		<b>Number of the teaching staff</b>	
	<b>General</b>	<b>Special</b>			<b>Staff</b>	<b>Lecturer</b>
Professor	Vet. Med. Surgery	Vet. Microbiology			4	
	Vet. Med. Surgery	Vet. Pharmacology			4	
	Vet. Med. Surgery	Vet. Pathology			3	
	Vet. Med. Surgery	Vet. Obstetrics			2	
	Vet. Med. Surgery	Vet. Surgery			2	
	Vet. Med. Surgery	Vet. Public Health			3	
	Vet. Med. Surgery	Vet. Medicine			3	
	Vet. Med. Surgery	Vet. Parasitology			4	
	Vet. Med. Surgery	Vet. Physiology			2	
	Vet. Med. Surgery	Vet. Biochemistry			1	
	Sciences	Microbiology			1	
	Agriculture	Animal Breeding			1	
	Assistant Professor	Vet. Med. Surgery	Vet. Microbiology			5
Vet. Med. Surgery		Vet. Anatomy			4	
Vet. Med. Surgery		Vet. Pharmacology			2	
Vet. Med. Surgery		Vet. Toxicology			2	
Vet. Med. Surgery		Vet. Pathology			5	
Vet. Med. Surgery		Vet. Obstetrics			5	
Vet. Med. Surgery		Vet. Surgery			8	
Vet. Med. Surgery		Vet. Public Health			3	
Vet. Med. Surgery		Vet. Medicine			8	
Vet. Med. Surgery		Vet. Parasitology			4	
Vet. Med. Surgery		Vet. Physiology			5	
Vet. Med. Surgery		Vet. Biochemistry			1	
Sciences		Microbiology			1	
Sciences		Parasitology			1	
Sciences		Biochemistry			1	
Lecturer	Vet. Med. Surgery	Vet. Microbiology			3	
	Vet. Med. Surgery	Vet. Anatomy			2	
	Vet. Med. Surgery	Vet. Pharmacology			7	
	Vet. Med. Surgery	Poultry Diseases			4	
	Vet. Med. Surgery	Vet. Clinical Pathol.			4	
	Vet. Med. Surgery	Vet. Immunology			1	
	Vet. Med. Surgery	Vet. Pathology			5	
	Vet. Med. Surgery	Vet. Obstetrics			1	
	Vet. Med. Surgery	Vet. Surgery			3	
	Vet. Med. Surgery	Vet. Public Health			2	
	Vet. Med. Surgery	Vet. Medicine			1	
	Vet. Med. Surgery	Vet. Parasitology			1	
	Vet. Med. Surgery	Vet. Physiology			5	

	Vet. Med. Surgery	Vet. Biochemistry			3	
	Sciences	Genetic			1	
	Sciences	Chemistry			1	
	Agriculture	Animal Nutrition			1	
	Agriculture	Animal Physiology			1	
Assistant Lecturer	Vet. Med. Surgery	Vet. Microbiology			1	
	Vet. Med. Surgery	Vet. Anatomy			3	
	Vet. Med. Surgery	Vet. Pharmacology			1	
	Vet. Med. Surgery	Vet. Pathology			3	
	Vet. Med. Surgery	Vet. Surgery			1	
	Vet. Med. Surgery	Vet. Public Health			1	
	Vet. Med. Surgery	Vet. Medicine			1	
	Vet. Med. Surgery	Vet. Parasitology			3	
	Vet. Med. Surgery	Vet. Clinical Pathol.			2	
	Sciences	Chemistry			1	
	Agriculture	Animal Nutrition			1	

### **Professional Development**

#### **Mentoring new faculty members**

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

#### **Professional development of faculty members**

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

### **12. Acceptance Criterion**

Students are admitted to college through central admission

### **13. The most important sources of information about the program**

State briefly the sources of information about the program.

### **14. Program Development Plan**

## Program Skills Outline

				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First Year First Semester	<a href="#">VEA1101</a>	Anatomy - 1	Basic	X											
	<a href="#">VEH1103</a>	Animal Management - 1	Basic		X			X				X			
	<a href="#">VEA1102</a>	Biology - 1	Basic			X				X			X		
	<a href="#">VED1004</a>	Computer Science - 1	Basic		X					X					
	<a href="#">VEH1001</a>	Democracy and Human Rights	Basic												X
	<a href="#">VEP1003</a>	English Language	Basic		X				X						
	<a href="#">VEP1104</a>	General Chemistry - 1	Basic					X							
	<a href="#">VEM1106</a>	Biorisks Management	Basic			X				X			X		
First Year Second Semester	<a href="#">VEA1106</a>	Anatomy - 2	Basic	X											
	<a href="#">VEH1107</a>	Animal Management - 2	Basic		X			X				X			
	<a href="#">VED1106</a>	Biology - 2	Basic			X				X			X		
	<a href="#">VED1005</a>	Computer Science - 2	Basic		X					X					
	<a href="#">VEP1109</a>	General Chemistry - 2	Basic					X							
	<a href="#">VEH1108</a>	Poultry Management	Basic		X			X				X			
	<a href="#">VEP1002</a>	Arabic Language	Basic												X
Second Year First Semester	<a href="#">VEA2101</a>	Anatomy - 1	Basic	X											
	<a href="#">VEH2105</a>	Animal Nutrition - 1	Basic		X			X							
	<a href="#">VEP2104</a>	Biochemistry - 1	Basic					X		X					
	<a href="#">VEA2102</a>	Histology - 1	Basic	X											
	<a href="#">VEP2103</a>	Physiology - 1	Basic		X			X		X					
	<a href="#">VEH2106</a>	Genetics	Basic			X		X							
Second Year Second Semester	<a href="#">VEA2107</a>	Anatomy - 2	Basic	X											
	<a href="#">VEH2111</a>	Animal Nutrition - 2	Basic		X			X							
	<a href="#">VEP2110</a>	Biochemistry - 2	Basic					X		X					
	<a href="#">VEA2108</a>	Histology - 2	Basic	X											
	<a href="#">VEP2109</a>	Physiology - 2	Basic		X			X		X					
	<a href="#">VEH2113</a>	Statistics	Basic		X					X					
	<a href="#">VEA2112</a>	Embryology	Basic	X											



<b>Third Year</b> First Semester	<a href="#">VEM3104</a>	General Microbiology	Basic			X	X			X			X		
	<a href="#">VED3100</a>	General Pathology	Basic	X		X				X					
	<a href="#">VEM3102</a>	Helminthology	Basic			X	X			X			X		
	<a href="#">VEM3115</a>	Immunology	Basic			X	X			X			X		
	<a href="#">VEP3101</a>	Pharmacology - 1	Basic				X	X							X
	<a href="#">VEH3116</a>	Toxicology	Basic				X	X							X
<b>Third Year</b> Second Semester	<a href="#">VEM3122</a>	Protozoa and Arthropod	Basic			X	X			X			X		
	<a href="#">VEM3124</a>	Special Microbiology	Basic			X	X			X			X		
	<a href="#">VED3120</a>	Systemic Pathology	Basic	X		X				X					
	<a href="#">VEP3121</a>	Pharmacology - 2	Basic				X	X							X
	<a href="#">VEM3126</a>	Virology	Basic			X	X			X			X		
	<a href="#">VEC3127</a>	Veterinary Clinic	Basic		X					X			X		
<b>Fourth Year</b> First Semester	<a href="#">VED4119</a>	Clinical Pathology - 1	Basic		X					X			X		
	<a href="#">VED4113</a>	Female Fertility	Basic	X	X	X	X	X			X	X	X	X	X
	<a href="#">VED4117</a>	Infectious Diseases - 1	Basic		X					X			X		
	<a href="#">VED4110</a>	Internal Medicine - 1	Basic		X					X			X		
	<a href="#">VED4111</a>	Morbid Anatomy - 1	Basic	X		X	X			X				X	
	<a href="#">VED4114</a>	Poultry Diseases - 1	Basic	X	X	X	X			X		X	X		
	<a href="#">VED4115</a>	Surgery - 1	Basic	X				X	X						
	<a href="#">VEC4112</a>	Veterinary Clinic - 1	Basic		X					X			X		
<b>Fourth Year</b> Second Semester	<a href="#">VED4127</a>	Clinical Pathology - 2	Basic		X					X			X		
	<a href="#">VED4126</a>	Infectious Diseases - 2	Basic		X					X			X		
	<a href="#">VED4128</a>	Internal Medicine - 2	Basic		X					X			X		
	<a href="#">VED4121</a>	Morbid Anatomy - 2	Basic	X		X	X			X				X	
	<a href="#">VED4124</a>	Poultry Diseases - 2	Basic	X	X	X	X			X		X	X		
	<a href="#">VED4125</a>	Surgery - 2	Basic	X				X	X						
	<a href="#">VEC4123</a>	Veterinary Clinic - 2	Basic		X					X			X		
	<a href="#">VED4122</a>	Veterinary Obstetrics	Basic	X	X	X	X	X	X		X	X	X	X	X
<a href="#">VED4107</a>	Zoonotic Diseases	Basic			X					X		X			
<b>Fifth Year</b> First Semester	<a href="#">VED5110</a>	Fish Diseases	Basic	X	X	X	X			X		X	X		
	<a href="#">VED5113</a>	Internal Medicine - 1	Basic	X					X				X		
	<a href="#">VEC5111</a>	Male Fertility	Basic	X	X	X	X	X			X	X	X	X	X
	<a href="#">VEH5114</a>	Meat Hygiene	Basic	X					X						
	<a href="#">VEC5115</a>	Surgery - 1	Basic	X					X	X					

	<a href="#">VEC5112</a>	Veterinary Clinic - 1	Basic	X					X				X		
	<a href="#">VED5120</a>	Internal Medicine - 2	Basic	X					X				X		
	<a href="#">VEH5121</a>	Milk Hygiene	Basic	X				X							
	<a href="#">VEC5117</a>	Reproductive Biotechnology	Basic	X				X	X		X	X	X	X	X
	<a href="#">VEC5123</a>	Surgery - 2	Basic	X				X	X						
	<a href="#">VEC5118</a>	Veterinary Clinic - 2	Basic	X					X				X		
	<a href="#">VEC5119</a>	Veterinary Ethics	Basic		X							X	X	X	X
	<a href="#">VED5122</a>	Veterinary Forensic Medicine	Basic	X	X	X	X			X	X	X	X	X	
	<a href="#">VEC5125</a>	Research Projects	Basic		X				X				X		
	<a href="#">VEC5109</a>	Summer Clinic	Basic	X					X				X		
<b>Fifth Year</b> Second Semester															