

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



**Academic Program and
Course Description**
Veterinary medicine college

2024

Academic Program Description Form

University Name: Wasit

Faculty/Institute: veterinary medicine

Scientific Department:

Academic or Professional Program Name: Bachelor of Veterinary Medicine and Surgery (BVMS)

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name:

Assit.prof . Zeid Alsadoon

Date: 15/7/2024

Signature:

Scientific Associate Name:

Prof.Dr.Sattar Rashed Al-Eqabi

Date : 2024/7/22

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

15/7/2024

Approval of the Dean

Academic Program Objectives:

The college aims to graduate veterinarians capable of working in veterinary hospitals, clinics, and private practices. Graduates should be able to:

- Conduct examinations and diagnoses
- Perform surgeries on animals
- Perform general chemical tests and fluid examinations
- Administer medications and treatments for all diseases of large and small animals
- Administer vaccinations
- Diagnose diseases
- Provide necessary guidance to animal owners to prevent diseases

Required Program Outcomes, Teaching and Learning Methods, and Assessment

A. Cognitive Objectives: Upon successful completion of this course, the student will be able to:

1. Perform laboratory procedures for the isolation, staining, and examination of bacteria present in clinical samples.
2. Prepare and sterilize all culture media and examine food for food contaminants.
3. Conduct all blood tests and examinations.
4. Perform urine, stool, and other body fluid tests (cerebrospinal fluid, sputum, semen).
5. Prepare and mount tissue slides from various organs of the body for examination.
6. Prepare all laboratory solutions.
7. Diagnose viral, bacterial, fungal, and parasitic diseases based on clinical signs.
8. Perform manual and ultrasound pregnancy tests and delivery procedures for all farm and domestic animals.
9. Perform animal surgeries as required by the medical condition.
10. X-ray animal bones and confirm bone fractures.
11. Examine and diagnose diseases in all birds and provide necessary disease control instructions.

Teaching and Learning Methods:

- Lectures
- Demonstrations
- Laboratory exercises
- Case studies
- Discussions
- Field trips

Assessment Methods:

- Quizzes
- Midterm exams
- Final exam
- Laboratory reports
- Case study presentations
- Field trip reports

Course Description: Bachelor of Veterinary Medicine and Surgery

B. Program-Specific Skillful Objectives

Upon completion of this course, students will be able to:

1. Think based on sound scientific principles.
2. Work effectively as part of a team.
3. Gather all necessary supplies to conduct analytical and diagnostic tests in laboratories and the field using modern laboratory analysis and diagnostic equipment.

Teaching and Learning Methods

1. Classroom instruction through theoretical and practical lectures.
2. Preparation of reports and scientific research.
3. Field visits to farms, ranches, and slaughterhouses.
4. Regular visits to veterinary teaching hospitals and clinics.

Assessment Methods

1. Exam or feedback.
2. Daily activity.
3. Writing research papers and reports.

C. Affective and Values Objectives

1. Work effectively as part of a team.
2. Adhere to university ethics.
3. Be receptive to information and open to new knowledge.
4. Develop a passion for the assigned work.

Teaching and Learning Methods

1. Assigning group tasks to students.
2. Conducting research using the library, internet, and laboratories.

Assessment Methods

1. Observation of assigned tasks.
2. Development of a survey questionnaire.

Teaching and Learning Methods

1. Theoretical and practical lectures (laboratories and field visits).

Assessment Methods

1. Daily exams.
2. Homework assignments.
3. Midterm and final exams.

Curriculum Summary for First Year Subject / First semester

No.	Subjects	Credits	Theoretical	Practical	Total
1	Biology / part 1	Units	2	1	3
		Hours	2	2	4
2	General chemistry / part 1	Units	2	1	3
		Hours	2	2	4
3	Anatomy / part 1	Units	2	2	4
		Hours	2	3	5
4	Animal management / part 1	Units	2	1	3
		Hours	2	2	4
5	Computer Science / part 1	Units	1	1	2
		Hours	1	2	3
6	Democracy	Units	2	-	2
		Hours	2	-	2
7	Biorisk management	Units	1	-	1
		Hours	1	-	1
8	Veterinary medical terminology	Units	1	-	1
		Hours	1	-	1
24	Total Hours:	19	Total Units:	8	Total Subjects:

Curriculum Summary for First Year Subject / Second semester

No.	Subjects	Credits	Theoretical	Practical	Total
1	Biology / part 2	Units	2	1	3
		Hours	2	2	4
2	General chemistry / part 2	Units	2	1	3
		Hours	2	2	4
3	Anatomy / part 2	Units	2	2	4
		Hours	2	3	5

4	Animal management / part 2	Units	2	1	3
		Hours	2	2	4
5	Poultry Management	Units	1	1	2
		Hours	1	2	3
6	Computer science / part 2	Units	1	1	2
		Hours	1	2	3
7	Human Rights	Units	2	-	2
		Hours	2	-	2
8	Arabic Language	Units	1	-	1
		Hours	1	-	1
26	Total Hours:	20	Total Units:	8	Total Subjects:

Curriculum Summary for Second Year Subject / First semester

No.	Subjects	Credit s	Theoretica l	Practica l	Tota l
1	Anatomy / part 3	Units	2	2	4
		Hours	2	3	5
2	Histology / part 1	Units	2	2	4
		Hours	2	3	5
3	Physiology / part 1	Units	4	1	5
		Hours	4	2	6
4	Biochemistry / part 1	Units	3	1	4
		Hours	3	2	5
5	Animal nutrition / part 1	Units	2	1	3
		Hours	2	2	4
6	Genetics	Units	2	-	2
		Hours	2	-	2

27

Total Hours:

22

Total Units:

6

Total Subjects:

Curriculum Summary for Second Year Subject / Second semester

No.	Subjects	Credit s	Theoretica l	Practica l	Tota l
1	Anatomy / part 4	Units	2	1	3
		Hours	2	2	4
2	Embryology	Units	1	-	1
		Hours	1	-	1
3	Histology / part 2	Units	2	1	3
		Hours	2	3	5
4	Physiology / part 2	Units	4	1	5

		Hours	4	2	6
5	Biochemistry / part 2	Units	3	1	4
		Hours	3	2	5
6	Animal nutrition / part 2	Units	2	1	3
		Hours	2	2	4
7	Statistics	Units	2	1	3
		Hours	2	2	4
29		Total Hours:	22	Total Units:	7
					Total Subjects:

Curriculum Summary for Third Year Subject / First semester

No.	Subjects	Credit s	Theoretica l	Practica l	Tota l
1	Helminthology	Units	3	1	4
		Hours	3	2	5
2	Pharmacology / part 1	Units	3	1	4
		Hours	3	2	5
3	General microbiology	Units	3	1	4
		Hours	3	2	5
4	Immunology	Units	2	1	3
		Hours	2	2	4
5	General pathology	Units	3	2	5
		Hours	3	3	6
6	Toxicology	Units	2	-	2
		Hours	2	-	2
27		Total Hours:	22	Total Units:	6
					Total Subjects:

Curriculum Summary for Third Year Subject / Second semester

No.	Subjects	Credit	Theoretica	Practica	Tota
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		s	l	l	l
1	Protozoa and Arthropoda	Units	3	1	4
		Hours	3	2	5
2	Pharmacology / part 2	Units	3	1	4
		Hours	3	2	5
3	Veterinary Clinic / part 1	Units	-	1	1
		Hours	-	2	2
4	Special microbiology	Units	3	1	4
		Hours	3	2	5
5	Virology	Units	2	1	3
		Hours	2	2	4
6	Systemic pathology	Units	3	2	5
		Hours	3	3	6

27

Total Hours:

21

Total Units:

6

Total Subjects:

Curriculum Summary for Fourth Year Subject / First semester

No.	Subjects	Credit s	Theoretica l	Practica l	Tota l
1	Morbid anatomy / part 1	Units	1	1	2
		Hours	1	2	3
2	Female fertility and genital diseases	Units	2	1	3
		Hours	2	2	4
3	Veterinary clinic / part 2	Units	-	2	2
		Hours	-	4	4
4	Poultry diseases /part 1	Units	2	1	3
		Hours	2	2	4
5	Surgery / part 1	Units	3	1	4
		Hours	3	2	5
6	Infectious and epidemiological diseases / part 1	Units	3	-	3
		Hours	3	-	3
7	Clinical pathology / part 1	Units	1	1	2
		Hours	1	2	3
8	Internal medicine / part 1	Units	3	-	3
		Hours	3	-	3
29	Total Hours:	22	Total Units:	8	Total Subjects:

Curriculum Summary for Fourth Year Subject / Second semester

No.	Subjects	Credit s	Theoretica l	Practica l	Tota l
1	Morbid anatomy / part 2	Units	1	1	2
		Hours	1	2	3
2	Veterinary obstetrics	Units	2	1	3
		Hours	2	2	4
3	Veterinary clinic / part 3	Units	-	2	2

		Hours	-	4	4
4	Poultry diseases /part 2	Units	2	1	3
		Hours	2	2	4
5	Surgery / part 2	Units	3	1	4
		Hours	3	2	5
6	Infectious and epidemiological diseases / part 2	Units	3	-	3
		Hours	3	-	3
7	Clinical pathology / part 2	Units	1	1	2
		Hours	1	2	3
8	Internal medicine / part 2	Units	3	-	3
		Hours	3	-	3
9	Zoonotic diseases	Units	2	-	2
		Hours	2	-	2
31	Total Hours:	24	Total Units:	9	Total Subjects:

Curriculum Summary for Fifth Year Subject / First semester

No.	Subjects	Credit s	Theoretica l	Practica l	Tota l
1	Fish diseases	Units	2	1	3
		Hours	2	2	4
2	Male fertility and artificial insemination	Units	1	1	2
		Hours	1	2	3
3	Veterinary clinic / part 4	Units	-	7	7
		Hours	-	14	14
4	Internal medicine / part 3	Units	3	-	3
		Hours	3	-	3
5	Meat hygiene	Units	2	1	3
		Hours	2	2	4
6	Surgery / part 3	Units	2	1	3

			Hours	2	2	4
32	Total Hours:	21	Total Units:	6	Total Subjects:	

Curriculum Summary for Fifth Year Subject / Second semester

No.	Subjects	Credit s	Theoretica l	Practica l	Total
1	Reproductive biotechnology	Units	1	1	2
		Hours	1	2	3
2	Veterinary clinic / part 5	Units	-	6	6
		Hours	-	12	12
3	Veterinary Ethics	Units	1	-	1
		Hours	1	-	1
4	Internal medicine / part 4	Units	3	-	3
		Hours	3	-	3
5	Food hygiene	Units	2	1	3
		Hours	2	2	4
6	Veterinary forensic pathology	Units	1		1
		Hours	1		1
7	Surgery / part 4	Units	2	1	3
		Hours	2	2	4
8	Research projects	Units	1	1	2
		Hours	1	2	3
9	Summer clinic	Units	-	3	3
		Hours			
30	Total Hours:	24	Total Units:	9	Total Subjects:

The total curriculum

No.	Years		First semester	Second semester	Total
1	First year	Subjects	8	8	16
		Units	19	20	39
2	Second year	Subjects	6	7	13
		Units	22	22	44
3	Third year	Subjects	6	6	12
		Units	22	21	43
4	Fourth year	Subjects	8	9	17
		Units	22	24	44
5	Fifth year	Subjects	6	9	15
		Units	21	24	45
	Total	Subjects	34	39	73
		Units	106	111	217

Course Syllabus Skills Matrix

Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation

Required Program Learning Outcomes																			
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level	
4 ^د	3 ^د	2 ^د	1 ^د	4 ^ج	3 ^ج	2 ^ج	1 ^ج	4 ^ب	3 ^ب	2 ^ب	1 ^ب	4 ^ا	3 ^ا	2 ^ا	1 ^ا				
																	Basic	General chemistry / part 1	First
																	Basic	Anatomy / part 1	
																	Basic	Animal Management	
																	Basic	Animal Management	
																	Basic	Computer Science / part 1	
																	Basic	Democracy	
																	Basic	Biorisk management	
																	Basic	Veterinary medical terminology	

Course Syllabus Skills Matrix

Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation

Required Program Learning Outcomes

Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level
4د	3د	2د	1د	4ج	3ج	2ج	1ج	4ب	3ب	2ب	1ب	4أ	3أ	2أ	1أ			
																Basic	Biology / part 2	First
																Basic	General chemistry / part 2	
																Basic	Anatomy / part 2	
																Basic	Animal management / part 2	
																Basic	Poultry Management	
																Basic	Computer science / part 2	

																Basic	Human Rights	
																Basic	Arabic Language	

Course Syllabus Skills Matrix

Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation

Required Program Learning Outcomes																		
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level
4 ^د	3 ^د	2 ^د	1 ^د	4 ^ج	3 ^ج	2 ^ج	1 ^ج	4 ^ب	3 ^ب	2 ^ب	1 ^ب	4 ^ا	3 ^ا	2 ^ا	1 ^ا			
																Basic	Anatomy / part 3	second
																Basic	Histology / part 1	
																Basic	Physiology / part 1	
																Basic	Biochemistry / part 1	
																Basic	Animal nutrition / part 1	

																Basic	Genetics	
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Course Syllabus Skills Matrix

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Required Program Learning Outcomes																		
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level
4د	3د	2د	1د	4ج	3ج	2ج	1ج	4ب	3ب	2ب	1ب	4أ	3أ	2أ	1أ			
																Basic	Anatomy / part 4	second
																Basic	Embryology	
																Basic	Biochemistry / part 2	
																Basic	Animal nutrition / part 2	
																Basic	Statistics	

Course Syllabus Skills Matrix																			
Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation																			
Required Program Learning Outcomes																			
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level	
4 ^د	3 ^د	2 ^د	1 ^د	4 ^ج	3 ^ج	2 ^ج	1 ^ج	4 ^ب	3 ^ب	2 ^ب	1 ^ب	4 ^ا	3 ^ا	2 ^ا	1 ^ا				
																	Basic	Helminthology	Third
																	Basic	Pharmacology / part 1	
																	Basic	General microbiology	
																	Basic	Immunology	
																	Basic	General pathology	
																		Toxicology	

Course Syllabus Skills Matrix

Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation

Required Program Learning Outcomes																		
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level
4د	3د	2د	1د	4ج	3ج	2ج	1ج	4ب	3ب	2ب	1ب	4أ	3أ	2أ	1أ			
																Basic	Morbid anatomy / part 1	Fourth
																Basic	Female fertility and genital diseases	
																Basic	Veterinary clinic / part 2	
																Basic	Poultry diseases /part 1	
																Basic	Surgery / part 1	
																Basic	Infectious and epidemiologica I	
																	Clinical pathology / part 1	
																	Internal	

																		medicine / part 1	
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Course Syllabus Skills Matrix																			
Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation																			
Required Program Learning Outcomes																			
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level	
4د	3د	2د	1د	4ع	3ع	2ع	1ع	4ب	3ب	2ب	1ب	4ا	3ا	2ا	1ا				
																	Basic	Morbid anatomy / part 2	Fourth
																	Basic	Male fertility and genital diseases	
																	Basic	Veterinary clinic / part 2	
																	Basic	Poultry diseases /part 2	
																	Basic	Surgery / part 2	

																	Basic	Infectious and epidemiologica 2	
																		Clinical pathology / part 2	
																		Internal medicine / part 2	
																		Zoonotic diseases	

Course Syllabus Skills Matrix																		
Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation																		
Required Program Learning Outcomes																		
Transferable General and Qualifying Skills (Other Skills Related to Employability and Personal Development)				Affective and Value Objectives				Program-Specific Skill Objectives				Cognitive Objectives				Core or Elective	Course Name	Year/Level
4 ^د	3 ^د	2 ^د	1 ^د	4 ^ج	3 ^ج	2 ^ج	1 ^ج	4 ^ب	3 ^ب	2 ^ب	1 ^ب	4 ^ا	3 ^ا	2 ^ا	1 ^ا			
																Basic	Fish diseases	Fifth

																	Basic	Male fertility and artificial insemination	
																	Basic	Veterinary clinic / part 4	
																	Basic	Internal medicine / part 3	
																	Basic	Food hygiene	
																	Basic	Veterinary forensic pathology	
																	Basic	Surgery / part 4	
																	Basic	Internal medicine / part 4	

Course Syllabus Skills Matrix						
Please check the boxes corresponding to the individual learning outcomes of the program that are subject to evaluation						
Required Program Learning Outcomes						
Transferable General and Qualifying Skills (Other Skills)	Affective and Value Objectives	Program-Specific Skill Objectives	Cognitive Objectives	Core or Elective	Course Name	Year/Level

Related to Employability and Personal Development)																		
4 ^د	3 ^د	2 ^د	1 ^د	4 ^ج	3 ^ج	2 ^ج	1 ^ج	4 ^ب	3 ^ب	2 ^ب	1 ^ب	4 ^ا	3 ^ا	2 ^ا	1 ^ا			
																Basic	Veterinary Ethics	Fifth
																Basic	Male fertility and artificial insemination	
																Basic	Veterinary clinic / part 4	
																Basic	Internal medicine / part 4	
																Basic	Milk hygiene	
																Basic	Veterinary forensic pathology	
																Basic	Surgery / part 4	
																Basic	Internal medicine / part 4	

Bachelor of Veterinary Medicine and Surgery Program

Program Objectives

- Prepare students to diagnose and treat diseases in all types of animals.
- Equip students to work in veterinary hospitals, clinics, and private practices.

Admission Criteria

- Secondary school graduation with a minimum GPA of 80%.
- Personal and physical fitness interview.

Information Sources

- Textbooks prescribed by the Ministry of Higher Education and Scientific Research.
- External scientific sources.
- Libraries and the internet.

Coursework

The Bachelor of Veterinary Medicine and Surgery program covers a wide range of topics, including:

- Anatomy and physiology
- Animal behavior
- Pharmacology
- Pathology
- Surgery
- Theriogenology
- Preventive medicine
- Public health
- Clinical practice

Skills and Knowledge

Upon successful completion of the program, graduates will be able to:

- Diagnose and treat diseases in all types of animals.
- Perform surgery and other veterinary procedures.
- Provide preventive care to animals.
- Educate clients on animal health and care.
- Comply with all relevant laws and regulations.

Career Opportunities

Graduates of the Bachelor of Veterinary Medicine and Surgery program can pursue careers in a variety of settings, including:

- Veterinary hospitals and clinics
- Private veterinary practices
- Government agencies
- Research institutions
- Animal welfare organizations

