

**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 Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Kufa

Faculty/Institute: Faculty of Veterinary Medicine

Scientific Department: Veterinary Medicine

Academic or Professional Program Name: Veterinary Medicine and Surgery

Final Certificate Name: Bachelor in Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date: 2022

File Completion Date: 2024/3/4

Signature:

Head of Department Name:

Abdullah O. Alhatami

Date: 5/3/2024

Signature:

Scientific Associate Name:

Date:

Falah Hasan Ali
6/3/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Asaad Chasib
5/3/2024

Approval of the Dean

1. Program Vision

The Faculty aim to be an accredited scientific institution for preparing specialized scientific and research cadres in various disciplines of veterinary medicine.

2. Program Mission

The Faculty is committed to providing a suitable educational and research environment to equip students and graduates with essential skills that enable them to meet the challenges of the job market. This is done in a way that enhances the development of the animal sector, promotes public health, and supports the concept of One Health. The college also aims to provide the necessary resources for producing scientific research that contributes to solving problems related to public and animal health...

3. Program Objectives

- 1- Working to prepare specialized scientific and technical professional cadres to work in hospital laboratories, Ministry of Health departments, public and private laboratories, and other relevant departments to serve the community.
- 2- Developing the research, scientific and technical capabilities of faculty members and graduates, keeping pace with modern developments, and urging the use of advanced methods in areas of specialization.
- 3- Creating a distinctive personal character for the student by developing cultural and social awareness that qualifies them, after graduation, to contribute effectively to serving their community.
- 4- Working to create an appropriate scientific environment to prepare highly specialized cadres (Master's and Doctorate) while developing their capabilities in the research field, which contributes to providing an information base on the nature of diseases and their causes in the local community.
- 5- Researching recent topics and identifying problems that need more in-depth scientific research.

4. Program Accreditation

Under approval

5. Other external influences

Laboratories, slaughterhouses, veterinary hospitals, the animal field, poultry farms.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements	72	214	98.6	
Department Requirements				
Summer Training	1	3	1.4	
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
First Year/ First semester	VEA1102	Biology / part 1	2	2
	VEP1104	General chemistry / part 1	2	2
	VEA1101	Anatomy / part 1	3	2
	VEH1103	Animal management / part 1	2	2
	VED1004	Computer Science / part 1	2	1
	VEH1001	Democracy	-	2
	VEP1003	Veterinary medical terminology	-	1
	VEM1106	Biorisk management	-	1
	VED1106	Biology / part 2	2	2
	VEP10032	Arabic Language	-	2

First Year/ Second semester	VEA1106	Anatomy / part 2	3	2
	VEH1107	Animal management / part 2	2	2
	VEH1108	Poultry Management	2	1
	VEP10022	Computer science / part 2	2	1
	VEH10011	Human Rights	-	2
	VEP1109	General chemistry / part 2	2	2
Second Year/ First semester	VEA2101	Anatomy / part 3	2	2
	VEA2102	Histology / part 1	3	2
	VEP2103	Physiology / part 1	2	4
	VEP2104	Biochemistry / part 1	2	3
	VEH2105	Animal nutrition / part 1	2	2
	VEH2106	Genetics	-	2
Second Year/ Second semester	VEA2107	Anatomy / part 4	2	2
	VEA2112	Embryology	-	1
	VEA2108	Histology / part 2	3	2
	VEP2109	Physiology / part 2	2	4
	VEP2110	Biochemistry / part 2	2	3
	VEH2111	Animal nutrition / part 2	2	2
	VEH2113	Statistics	2	2
Third Year/ First semester	VEM3112	Helminthology	2	3
	VEP3111	Pharmacology / part 1	2	3
	VEM3114	General microbiology	2	3
	VEP3115	Immunology	2	2
	VED3110	General pathology	3	3
	VEP3116	Toxicology	-	2
Third Year/ Second semester	VEM3122	Protozoa & artropoda	2	3
	VEP3121	Pharmacology / part 2	2	3
	VEC3127	Veterinary Clinic / part 1	2	-
	VEM3124	Special microbiology	2	3
	VEM3126	Virology	2	2
	VED3120	Systemic pathology	3	3
	VED4111	Morbid anatomy / part 1	2	1

Fourth Year/ First semester	VEC4111	Female fertility and genital diseases	2	2
	VEC4112	Veterinary clinic / part 2	4	-
	VED4114	Poultry diseases /part 1	2	2
	VEC4115	Surgery / part 1	2	3
	VEC4117	Infectious and epidemiological diseases / part 1	-	2
	VEC4119	Clinical pathology / part 1	2	1
		Internal medicine / part 1	-	3
	VEC4110	Epidemiology	-	1
Fourth Year/ Second semester	VED4121	Morbid anatomy / part 2		
	VEC4122	Veterinary obstetrics	2	1
	VEC4123	Veterinary clinic / part 3	2	2
	VEC4124	Poultry diseases /part 2	4	-
	VEC4125	Surgery / part 2	2	2
	VEC4126	Infectious and epidemiological diseases / part 2	2	3
	VEC4127	Clinical pathology / part 2	-	3
	VEC4128	Internal medicine / part 2	2	1
	VEC4107	Zoonotic diseases	-	3
	VED4121	Morbid anatomy / part 2	-	2
	Fifth Year/ First semester	VED5110	Fish diseases	2
VEC5111		Male fertility and artificial insemination	2	1
VEC5112		Veterinary clinic / part 4	14	-
VEC5113		Internal medicine / part 3	-	3
VEH5114		Meat hygiene	2	2
VEC5115		Surgery / part 3	2	2
VEC5125		Research projects	-	1

Fifth Year/ Second semester	VEC5117	Reproductive biotechnology		
	VEC5118	Veterinary clinic / part 5	2	1
	VEC5119	Veterinary Ethics	12	-
	VEC5120	Internal medicine / part 4	-	1
	VEH5121	Food hygiene	-	3
	VED5122	Veterinary forensic pathology	2	2
	VEC5123	Surgery / part 4	-	1
	VEC5124	Summer clinic	2	2
	VEC5125	Research projects	6	-

8. Expected learning outcomes of the program

Knowledge

- A1- Enable the student to recall and identify the types of pathogens, their virulence factors, their diseases, and the basic methods for performing laboratory diagnostic tests for bacteria.
- A2- Enable the student to summarize the methods of bacterial isolation and the culture media used.
- A3- Enable the student to indicate the factors of spread and epidemiology of bacterial diseases and deduce the appropriate methods for diagnosis and isolation of bacterial agents.
- A4- The student is able to interpret the results of the examined samples.
- A5- The student is able to plan the establishment of laboratories that provide basic tests for pathogenic bacteria.

Skills

- 1- Acquisition of skills in the preparation of culture media and bacterial isolation.
- 2- Acquisition of the necessary skills to perform laboratory diagnostic and differentiation methods for pathogenic bacteria.
- 3- Enabling the graduate to employ this knowledge and skills in the field of medical laboratory techniques.

Ethics

- 1- Instilling in the student an ethical commitment to maintaining human health and well-being.
- 2- The student practices voluntary work with full awareness and understanding and helps his classmates in the classroom and the college.

9. Teaching and Learning Strategies

1. Theoretical lectures using various visual aids such as screens, presentations, educational videos, etc.
2. Small discussion sessions (cooperative learning)
3. Vertical learning courses (that integrate everything the student has learned in previous years)
4. Sending students for training in educational hospitals to gain real-world experience
5. Providing students with the basics and additional topics related to previous learning outcomes for skills, to solve practical problems.
6. Applying the topics studied theoretically at the practical level in various laboratories affiliated with educational hospitals.
7. Student Graduation research projects

10. Evaluation methods

1. **Diagnostic assessments:** These include pre-tests and student self-assessment.
2. **Formative assessments:** These include daily oral and short written questions, practical reports, extracurricular activities, and projects.
3. **Summative assessments:** These include:
 - a. Written midterm and final exams (including explanation, short questions, and multiple choice questions (MCQs))
 - b. Practical exams to assess laboratory skills

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer

Professor	Veterinary Medicine and Surgery	Poultry Diseases Microbiology Internal and Preventive Medicine Animal Wealth Animal Physiology Animal Diseases Physiology Biology				11
	Biology					
Assistant Professor	Veterinary Medicine and Surgery	Veterinary Surgery Microbiology Public Health Pharmacology Zoonotic Diseases Internal Medicine and Preventive Medicine				37

		Reproduction and Genital Diseases Anatomy and Histology Immunohistology Public Health Poultry Diseases Fish Diseases Animal Anatomy Life Sciences Biochemistry Business Administration Biology				
Lecturer	Veterinary Medicine and Surgery	Life Sciences Parasitology Veterinary Physiology Animal Diseases Clinical Parasitology Veterinary Reproduction				13

	Biology Administration and Economics	Anatomy and Histology Biology Legal Accountant				
Lecturer assistant	Veterinary Medicine and Surgery Biology Artificial Intelligence Literature and Quranic Sciences	Anatomy and Histology Animal Diseases Public Health Veterinary Surgery Medical Microbiology, Physiology Biology				20

Professional Development

Mentoring new faculty members

New faculty members are oriented through participation in specialized courses that focus on the development of faculty members at educational institutions. These courses are organized by the Department and Division of Continuing Education.

The orientation program covers the following topics:

The role of faculty members in the educational process

The teaching and learning process

Assessment and evaluation

Curriculum development

Research and scholarship

Professional development

Ethics and integrity

The orientation program is designed to help new faculty members:

Understand the expectations of their role

Develop the skills and knowledge necessary to be effective teachers

Become familiar with the resources and support available to them

Build relationships with their colleagues

The orientation program is a valuable resource for new faculty members. It provides them with the information and support they need to be successful in their new roles.

Professional development of faculty members

The Faculty implements a plan for the academic and professional development of faculty members through participation in courses, workshops, and seminars held at the college, university, and ministry. These activities aim to develop the following skills:

Teaching skills

Research skills

Technical skills

Community service skills

The college believes that professional development is essential for faculty members to remain current in their field and to provide students with the best possible education. The college offers a variety of professional development opportunities, including:

Courses: The college offers a variety of courses on topics such as teaching methods, research methods, and technology.

Workshops: The college offers workshops on a variety of topics, such as grant writing, presentation skills, and time management.

Seminars: The college hosts seminars on a variety of topics, such as current research trends and best practices in teaching.

The Faculty also encourages faculty members to participate in professional development activities outside of the college, such as attending conferences and publishing research.

The Faculty's commitment to professional development is evident in the high quality of its faculty members. The faculty members are well-qualified and experienced, and they are committed to providing students with the best possible education.

12. Acceptance Criterion

According to the regulations of the Ministry of Higher Education and Scientific Research (Central Admission). Students must pass any special test or personal interview required by the College or University Council.

13. The most important sources of information about the program

1. Ministry of Higher Education and Scientific Research / Council for Improving the Quality of Education for Veterinary Medicine Colleges / Curricula of Veterinary Medicine Colleges in Iraqi Universities
2. The central library in the college
3. The Internet.
4. Experiences of Arab and international universities.
5. Current curricula.

14. Program Development Plan

Student Participation in Curriculum Review: the program development plan includes a mechanism for student participation in the continuous review of the curriculum. This participation can be through: Course evaluations, Curriculum committees, Focus groups.

Participation in Specialized Scientific Conferences

Increasing Activities that Develop Personal Knowledge

Responding to the Needs of the Local Market

Activating Field Visits and Cooperation

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	VEA1102	Biology / part 1	Basic	√	√			√				√	√		
	VEP1104	General chemistry / part 1	Basic	√	√	√		√				√	√		
	VEA1101	Anatomy / part 1	Basic	√	√			√				√	√		
	VEH1103	Animal management / part 1	Basic	√		√		√				√	√		
	VED1004	Computer Science / part 1	Basic	√								√	√		
	VEH1001	Democracy	Basic	√		√									

First Year/ Second semester	VEP1003	Veterinary medical terminology	Basic	√	√											
	VEM1106	Biorisk management	Basic	√	√	√										
	VED1106	Biology / part 2	Basic	√	√					√		√	√			
	VEP10032	Arabic Language	Basic	√	√											
	VEA1106	Anatomy / part 2	Basic	√	√					√		√	√			
	VEH1107	Animal management / part 2	Basic	√		√		√		√	√		√			
	VEH1108	Poultry Management	Basic	√		√			√		√	√		√		
	VEP10022	Computer science / part 2	Basic	√		√		√		√	√		√	√		
	VEH10011	Human Rights	Basic	√		√			√		√	√		√	√	

	VEP1109	General chemistry / part 2	Basic	√		√									
Second Year/ First and Second semester	VEA2101	Anatomy / part 3	Basic	√	√			√					√		
	VEA2102	Histology / part 1	Basic	√	√			√					√		
	VEP2103	Physiology / part 1	Basic	√	√			√					√		
	VEP2104	Biochemistry / part 1	Basic	√		√		√		√	√		√	√	
	VEH2105	Animal nutrition / part 1	Basic	√		√		√		√	√		√	√	
	VEH2106	Genetics	Basic	√		√		√	√		√	√		√	
	VEA2107	Anatomy / part 4	Basic	√	√	√		√	√		√	√		√	
	VEA2112	Embryology	Basic	√		√		√	√		√	√		√	
	VEA2108	Histology / part 2	Basic	√		√		√	√		√	√		√	
	VEP2109	Physiology / part 2	Basic	√		√		√	√		√	√		√	

	VEP2110	Biochemistry / part 2	Basic	√		√									
	VEH2111	Animal nutrition / part 2	Basic	√		√	√		√	√		√	√		√
	VEH2113	Statistics	Basic	√		√	√		√	√		√	√		√
							√		√	√		√	√		√
Third Year/ First and Second semester	VEM3112	Helminthology	Basic				√		√	√		√	√		√
	VEP3111	Pharmacology / part 1	Basic	√		√	√		√	√		√	√		
	VEM3114	General microbiology	Basic	√		√	√		√	√		√	√		
	VEP3115	Immunology	Basic	√		√	√		√	√		√	√		
	VED3110	General pathology	Basic	√		√	√		√	√		√	√		
	VEP3116	Toxicology	Basic	√		√	√		√	√		√	√		
	VEM3122	Protozoa & artropoda	Basic	√		√	√		√	√		√	√		

	VEP3121	Pharmacology / part 2	Basic	√		√	√		√	√		√	√		
	VEC3127	Veterinary Clinic / part 1	Basic	√		√	√		√	√		√	√		
	VEM3124	Special microbiology	Basic	√		√	√		√	√		√	√		
	VEM3126	Virology	Basic	√		√	√		√	√		√	√		
	VED3120	Systemic pathology	Basic	√		√	√		√	√		√	√		
				√		√	√		√	√		√	√		
Fourth Year/ First and Second semester	VED4111	Morbid anatomy / part 1	Basic	√		√	√		√	√		√	√		√
	VEC4111	Female fertility and genital diseases	Basic	√		√	√		√	√		√	√		√

VEC4112	Veterinary clinic / part 2	Basic	√		√	√		√	√		√	√		
VED4114	Poultry diseases /part 1	Basic	√		√	√		√	√		√	√		
VEC4115	Surgery / part 1	Basic	√	√	√	√	√	√	√	√	√	√	√	
VEC4117	Infectious and epidemiological diseases / part 1	Basic	√	√	√	√	√	√	√	√	√	√	√	
VEC4119	Clinical pathology / part 1	Basic	√	√	√	√	√	√	√	√	√	√	√	
VEC4110	Internal medicine / part 1	Basic	√	√	√	√	√	√	√	√	√	√	√	
VED4121	Morbid anatomy / part 2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
VEC4122	Veterinary obstetrics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
VEC4123	Veterinary clinic / part 3	Basic	√	√	√	√	√	√	√	√	√	√	√	√

	VEC4124	Poultry diseases / part 2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC4125	Surgery / part 2	Basic	√	√	√	√	√	√	√	√	√	√	√	
	VEC4126	Infectious and epidemiological diseases / part 2	Basic	√	√	√	√	√	√	√	√	√	√	√	
	VEC4127	Clinical pathology / part 2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC4128	Internal medicine / part 2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC4107	Zoonotic diseases	Basic	√	√	√	√	√	√	√	√	√	√	√	√
Fifth Year/ First and Second semester	VED5110	Fish diseases	Basic	√	√			√					√		√
	VEC5111	Male fertility and artificial insemination	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5112	Veterinary clinic / part 4	Basic	√	√	√	√	√	√	√	√	√	√	√	√

	VEC5113	Internal medicine / part 3	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEH5114	Meat hygiene	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5115	Surgery / part 3	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5117	Reproductive biotechnology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5118	Veterinary clinic / part 5	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5119	Veterinary Ethics	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5120	Internal medicine / part 4	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEH5121	Food hygiene	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VED5122	Veterinary forensic pathology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5123	Surgery / part 4	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	VEC5124	Summer clinic	Basic	√	√	√	√	√	√	√	√	√	√	√	√

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

