

Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

Accreditation Department



# **Academic Program Description**

## **College of Veterinary Medicine**

### **Tikrit University**

**2024- 2025**



## College of Veterinary Medicine



### Academic Program Description

**Year: 2024-2025**

University Name: University of Tikrit

Faculty: College of Veterinary Medicine

Academic Program: Bachelor of Veterinary Medicine and Surgery

Final Certificate: Bachelor of Veterinary Medicine and Surgery

Academic System: Semesters

Description Preparation Date: 2024

File Completion Date: 1/9/2024

**Signature:**

Approval of the Dean:

Prof. Dr. Bashar Sadeq Noomi

Date: 2/9/2024

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Scientific Associate:

Date: Prof. Dr. Dakhil Hussein Hadri

Date: 2/9/2024

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Director of the Quality Assurance and University Performance Department:

Asst. Prof. Dr. Ahmed Abdullah Sultan

Date: 2/9/2024



## **Introduction:**

The educational program is a coordinated and organized package of courses that includes procedures and experiences organized in the form of study vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs, such as the external examiner program.

The description of the academic program provides a brief summary of the main features of the program and its decisions, indicating the skills that are being worked on to provide students with based on the objectives of the academic program. The importance of this description is manifested because it represents the cornerstone in obtaining program accreditation and is co-written by teaching staff under the supervision of scientific committees in scientific departments.

This manual, in its second version, includes a description of the academic program after updating the vocabulary and paragraphs of the previous manual in the light of the developments 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 description of the academic program circulated under the book of the Department of studies Pm3/2906 on 3/5/2023 with respect to programs that adopt the Bologna track as the basis for their work.

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

## **Concepts and terminology:**

**Description of the academic program:** The description of the academic program provides a 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 summary of the most important characteristics of the course and the learning outcomes expected from the student to achieve, proving

whether he has made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** an ambitious picture of the future of the academic program to be an advanced, inspiring, motivating, realistic, and applicable program.

**Program message:** it outlines the goals and activities necessary to achieve them in a concise form and also defines the development paths of the program and its directions.

**Program objectives:** These are phrases 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 track), whether it is a requirement (Ministry, University, College, and scientific department), with the number of academic units.

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

**Teaching and learning strategies:** These are the strategies employed by faculty members to facilitate student learning and development, and are plans that are followed to achieve learning goals. That is, it describes all classroom and extracurricular activities aimed at achieving the learning outcomes of the program.

### **Academic program**

This academic description provides a concise and integrated presentation of the program's most prominent features, along with the educational outcomes expected from students to achieve and demonstrate their competence in it when they optimally utilize the available learning opportunities. This description is accompanied by details specific to each course that contribute to the formation of the program and ensure its complementarity



### **1. Program Vision**

The College of Veterinary Medicine at Tikrit University aspires to be a leading scientific research institution, internationally accredited, distinguished in veterinary education, and active in community service and national development, while contributing to the promotion of sustainable food security.

### **2. Program Mission**

The College seeks to provide high-quality education in the fields of veterinary medicine, food hygiene, and health security, while preparing professional cadres capable of serving society and the labor market efficiently. It is also committed to encouraging scientific research and innovation, and supporting entrepreneurial projects for students and faculty members, with a focus on applied research that has a direct impact on community service.

### **3. Program Objectives**

1. Preparing cognitively and skillfully qualified students to perform the tasks of a veterinarian efficiently, through modern curricula and advanced laboratories.
2. Graduating cadres capable of meeting the needs of the labor market and competing locally, regionally, and internationally.
3. Raising the level of scientific research and applying its results to contribute to the development of society and improve the veterinary health system.
4. Develop the professional performance of the veterinarian, enhance his communication and decision-making skills, and keep abreast of scientific and technical developments.
5. Developing the capabilities of faculty members and administrators within the overall quality standards.
6. Strengthen financial resources and ensure the continuity of services by diversifying funding sources.

#### 4. Program Accreditation

NO

#### 5. Other external influences

No, there are no external influences

#### 6. Program Structure

Remarks	Percentage	Credit Units	Number of Courses	Component
General courses such as Arabic Language, English Language, Computer Skills, Human Rights, and Crimes of the Ba'ath Party — intended to provide academic support for students.	4.6%	10 credit units	5 courses	Institutional Requirements
Specialized veterinary courses (Anatomy, Physiology, Pharmacology, Pathology, Surgery, Internal Medicine, Preventive Medicine, Parasitology, Public Health, etc.)	95.4%	217 credit units	66 courses	College Requirements
Not specified, possibly integrated within the College Requirements as the college consists of a single academic specialization.	-	-	-	Departmental Requirements
Practical training in veterinary hospitals, fieldwork, or laboratories. This is a mandatory graduation requirement.	1.3%	3 credit units	1 course	Summer Training
No elective or additional program components are specified.	-	-	-	Others

# Analysis and Notes (According to Academic Program Description Guidelines)

## 1. Academic Balance:

- A significant proportion of the curriculum (95.4%) is allocated to specialized veterinary courses, reflecting the program's focus on **in-depth academic and professional training**.
- This indicates the program is designed to produce **practice-ready graduates** qualified for employment in:
  - The Ministry of Agriculture / Veterinary Directorate
  - Veterinary clinics
  - Diagnostic laboratories
  - Public health institutions
  - Disease prevention and control sectors

## 2. Institutional Requirements:

- These courses constitute **4.6%** of the total credit units.
- Their inclusion aligns with the Ministry of Higher Education and Scientific Research's directives to integrate **soft skills and general knowledge** into academic programs.

## 3. Summer Training:

- Offered as an **independent course**, this component is aligned with **professional and practical learning outcomes**.
- It plays a key role in assessing the **clinical and field competence** of students before graduation.

## 4. Absence of Separate Departmental Requirements:

- As the college offers a **single academic specialization (veterinary medicine)**, there is no need to differentiate between college and departmental requirements.
- All course offerings fall under the **umbrella of the College of Veterinary Medicine**.

## General Conclusion

The academic program at the **College of Veterinary Medicine – University of Tikrit** aligns strongly with the **National and Institutional Accreditation Standards**. It is characterized by the following:

- A **strong focus on specialized veterinary education**.
- A **balanced integration of theoretical and clinical/practical training**.



- A limited but effective inclusion of general education courses to support student development.
- Preparation of graduates for diverse sectors, including:
  - Animal health and welfare
  - Food safety and inspection
  - Public health
  - Scientific research
  - Livestock and epidemiological surveillance

## 7. Description of Program

Year/Level	Course Code	Course Name	Credit Hours	
			Theoretical	Practical
First Year	VEH1103	Animal Management Part 1	30	30
First Year	VEH1107	Animal Management Part 2	30	30
First Year	VEH110H	Poultry Management	15	30
First Year	VED1004	Computer part1	30	30
First Year	VEH1001	Democracy And Human Rights	30	
First Year	VEP1003	English Language Part 1	30	
First Year	VEA1101	Anatomy part1	30	45
First Year	VEA1101	Anatomy part2	30	45
First Year	VEA1102	Biology part1	30	30
First Year	VEA1102	Biology part2	30	30
First Year	VEP10032	Arabic Language	30	
First Year	VEP1006	Biosafety	30	
First Year	VEP1109	General Chemistry Part 1	30	30
First Year	VEP1109	General Chemistry Part 2	30	30
Second Year	VEA2101	Anatomy part 2	30	30
Second Year	VEA2101	Anatomy Part 1	30	30
Second Year	VEA2102	Histology part 2	30	45
Second Year	VEA2102	Histology part 1	30	45
Second Year	VEA2112	EMBRIOLOGY	30	
Second Year	VEH2106	Genetics	30	
Second Year	VEH2113	Statistics	30	30
Second Year	VEP2103	Physiology part 2	60	30
Second Year	VEP2103	Physiology part 1	60	30
Second Year	VEP2104	Biochemistry part 1	45	30
Second Year	VEP2104	Biochemistry part 2	45	30
Third Year	VEM3114	General Microbiology	45	30
Third Year	VEM3124	Special Microbiology	45	30



Third Year	VEP3115	IMMUNOLOGY	30	30
Third Year	VEM3126	Virology	30	30
Third Year	VED3110	General Pathology	45	45
Third Year	VED3121	Special Pathology	45	45
Third Year	VEC3127	CLINIC		30
Third Year	VEP3116	TOXICOLOGY	30	
Third Year	VEM3122	Parasitology	45	30
Third Year	VEM3122	PROTOZOA and ARTHROPODA	45	30
Third Year	VEP3111	Pharmacology	45	30
Fourth Year	VED4111	Morbid Anatomy 1	15	30
Fourth Year	VED4111	Morbid Anatomy 2	15	30
Fourth Year	VED4114	Poultry Diseases1	30	30
Fourth Year	VED4114	Poultry Diseases2	30	30
Fourth Year	VEC4112	CLINIC 1		60
Fourth Year	VEC4112	CLINIC 1		60
Fourth Year	VEC4117	Infectious Disease 1	60	
Fourth Year	VEC4107	Infectious Disease 1	60	
Fourth Year	VEC4117	Epidemiological	30	
Fourth Year	VEC4119	Clinical Pathology 1	15	30
Fourth Year	VEC4119	Clinical Pathology 2	15	30
Fourth Year	VEC4128	Internal Medicine 1	45	
Fourth Year	VEC4128	Internal Medicine 2	45	
Fourth Year	VEC4107	Zoonotic Diseases	30	
Fourth Year	VEC4111	Female Fertility	30	30
Fourth Year	VEC4124	Surgery 1	30	30
Fourth Year	VEC4125	Surgery 2	30	30
Fifth Year	VEC5112	Clinic 1		210
Fifth Year	VEC5112	Clinic 2		180
Fifth Year	VEC5111	Artificial Insemination	15	30
Fifth Year	VEC5117	Reproductive Biotechnology	15	30
Fifth Year	VEC5115	Surgery 1	30	30
Fifth Year	VEC5115	Surgery 2	30	30
Fifth Year	VEC5125	Research Projects	15	
Fifth Year	VED5110	Fish Diseases	30	30
Fifth Year	VED5122	Forensic Pathology	30	30
Fifth Year	VEH5114	Meat Hygiene	30	30

Fifth Year	VEH5121	Milk Hygiene	30	30
Fifth Year	VEC5119	Veterinary Ethics	15	
Fifth Year	VEC5113	Internal Medicine 1	30	
Fifth Year	VEC5113	Internal Medicine 2	30	
Fifth Year	VEC5124	Summer CLINIC		48

## 8. Expected learning outcomes of the program

### Knowledge

<b>Knowledge aims</b>	<p>1 . Possession of the basics of Veterinary Science and medical diagnostics, knowledge of epidemiological and common diseases, examination of animal products and their safety.</p> <p>2. Knowledge of epidemiological and common diseases between humans and animals.</p> <p>3. Familiarity with the methods of testing animal products and ensuring their safety for human consumption.</p> <p>4. Get acquainted with the foundations of Physiology and biochemistry of animals.</p> <p>5. Assimilation of methods of breeding and sanitary management of livestock, poultry, and fish.</p> <p>6. Knowledge of Veterinary legislation and laws related to food safety, animal health, and animal welfare.</p> <p>7. Familiarity with the concepts of Veterinary Public Health and its role in protecting humans from joint diseases.</p> <p>Understand the foundations of scientific research and the principles of statistical analysis and employ them in veterinary studies.</p>
<b>Skills aims</b>	<p>1.Develop the scientific, professional, and clinical capabilities of the veterinarian to enable accurate diagnosis and develop integrated treatment plans.</p> <p>2.Develop practical skills in dealing with animals in terms of clinical examination, surgical procedures, and health care.</p>

	<p>3.Enhance the skills of using modern diagnostic techniques such as radiology, sonar, and laboratory analysis.</p> <p>4.To provide students with the ability to apply the principles of preventive medicine to control infectious and epidemic diseases.</p> <p>5.Support efficiency in the management of animal farms and productive sectors in order to achieve standards of Health and animal welfare.</p> <p>6.Enabling graduates to contribute to the field of Veterinary Public Health by ensuring the safety of food of animal origin.</p> <p>7. Improve scientific research and critical thinking skills to develop innovative solutions to veterinary problems.</p> <p>8. Preparing cadres capable of competing in the labor market locally, regionally, and internationally.</p>
<b>Skills</b>	
	<p>Intellectual skills: developing the ability to analyze, dialogue, apply technology, and build professional confidence while adhering to ethics.</p> <p>General skills: teamwork, fruitful scientific research, self-learning, effective communication with society, and the labor market.</p>
<b>values</b>	
<b>Professional ethics</b>	<ul style="list-style-type: none"> <li>* Commitment to integrity and honesty in all professional practices.</li> <li>* Maintaining the confidentiality of information related to animals and their owners.</li> <li>* Respect the rights of the animal and ensure its welfare and kindness.</li> <li>* Providing health care according to scientific standards without discrimination or bias.</li> </ul>



	<ul style="list-style-type: none"> <li>* <b>Avoid any conflict of interest that harms the interests of the patient or society.</b></li> <li>* <b>Compliance with national and International Veterinary laws and regulations.</b></li> </ul>
<b>Professional Responsibility</b>	<ul style="list-style-type: none"> <li>* <b>Dealing with colleagues and community members in a spirit of cooperation and mutual respect.</b></li> <li>* <b>Take professional and ethical responsibility when making medical decisions.</b></li> </ul>

## **8. Teaching and Learning Strategies**

- \* **Theoretical lectures, practical and clinical training.**
- \* **Interactive learning through discussions, workshops, and problem-solving.**
- \* **Scientific research, applied projects, and self-learning supported by modern technologies.**

## **10. Evaluation methods**

- \* **Written and oral exams to measure knowledge and understanding.**
- \* **Practical and clinical assessment to measure applied skills.**
- \* **Research reports, presentations, and classroom engagement to measure intellectual and communication skills.**

**11. Faculty**

<b>Academic Rank</b>	<b>Major Field</b>	<b>Specialization</b>	<b>Permanent Staff</b>	<b>Lecturer</b>
Professor	Biology	Blood Parasites	1	0
Professor	Veterinary Medicine	Anatomy	1	0
Professor	Veterinary Medicine	Immunology & Bacteriological Diagnosis	1	0
Professor	Veterinary Medicine	Veterinary Physiology	1	0
Professor	Veterinary Medicine	Physiology	1	0
Professor	Animal Production	Meat Production	1	0
Professor	Veterinary Medicine	Pharmacology	2	0
Professor	Veterinary Medicine	Pathology	1	0
Professor	Biology	Animal Physiology	2	0
Professor	Veterinary Medicine	Obstetrics	1	0
Professor	Biology	Microbiology	2	0
Professor	Chemistry	Inorganic Chemistry	1	0
Professor	Animal Wealth	Poultry Nutrition	1	0
Assistant Professor	Veterinary Medicine	Animal Diseases	1	0
Assistant Professor	Computer Science	Information Technology	1	0
Assistant Professor	Agriculture	Animal Wealth	1	0
Assistant Professor	Microbiology	Immunology	1	0
Assistant Professor	Veterinary Medicine	Anatomy & Histology	2	0
Assistant Professor	Veterinary Medicine	Diseases	1	0
Assistant Professor	Chemistry	Organic Chemistry	1	0
Assistant Professor	Business & Economics	Financial Management	1	0
Assistant Professor	Biology	Parasitology	1	0
Assistant Professor	Animal Production	Animal Nutrition	1	0
Assistant Professor	Veterinary Medicine	Veterinary Obstetrics	2	0
Assistant Professor	Veterinary Medicine	Veterinary Surgery	2	0
Assistant Professor	Veterinary Medicine	Internal Medicine	2	0
Assistant Professor	Veterinary Medicine	Fish Diseases	1	0

Assistant Professor	Biology	Zoology	1	0
Assistant Professor	Veterinary Medicine	Neurosurgery & Soft Tissue	1	0
Assistant Professor	Veterinary Medicine	Poultry Diseases	1	0
Lecturer	Veterinary Medicine	Poultry Diseases	1	0
Lecturer	Animal Wealth	Poultry Nutrition	2	0
Lecturer	Veterinary Medicine	Internal Medicine	1	0
Lecturer	Biology	Parasitology	1	0
Lecturer	Animal Wealth	Poultry Management	1	0
Lecturer	Veterinary Medicine	Anatomy & Histology	1	0
Lecturer	Veterinary Medicine	Biomedical Sciences	1	0
Lecturer	Biology	Zoology / Histology	2	0
Lecturer	Veterinary Medicine	Veterinary Surgery	1	0
Lecturer	Veterinary Medicine	Clinical Biochemistry	1	0
Assistant Lecturer	Business & Economics	Accounting	2	0
Assistant Lecturer	Biology	Zoology	3	0
Assistant Lecturer	Biology	Botany	1	0
Assistant Lecturer	Law	Public Law	1	0
Assistant Lecturer	Veterinary Medicine	Pathology	1	0
Assistant Lecturer	Biology	Microbiology	1	0
Assistant Lecturer	Animal Wealth	Poultry Physiology	1	0
Assistant Lecturer	Humanities Education	Quranic Sciences	1	0
Assistant Lecturer	Veterinary Medicine	Veterinary Parasitology	1	0
Assistant Lecturer	Agriculture	Animal Wealth	1	0
Assistant Lecturer	Computer Science	Computer Science	1	0
Assistant Lecturer	Agricultural Sciences	Animal Production / Physiology	1	0
Assistant Lecturer	Animal Physiology	Animal Physiology	2	0
Assistant Lecturer	Veterinary Medicine	Pathological Diagnostics	3	0
Assistant	Biology	Microbiology	2	0



Lecturer				
Assistant Lecturer	Educational & Psychological Sci.	Curriculum & Teaching Methods	2	0
Assistant Lecturer	Veterinary Medicine	Public Health	1	0
Assistant Lecturer	Veterinary Medicine	Veterinary Pharmacology	5	0

### Professional Development

- \* Organizing training courses and workshops for faculty members and students to enhance scientific and practical skills.
- \* Support participation in local and international conferences and seminars to exchange experiences and keep abreast of developments.
- \* Encouraging scientific research, innovation and entrepreneurial projects to serve the community and develop the profession.
- \* Support of entrepreneurial projects.
- \* Activating continuous education and lifelong self-learning programs to keep abreast of modern developments in veterinary medicine.

### 12. Acceptance Criterion

- \* Admission through the central admission channel according to the annual admission plan.
- \* The student's average in the preparatory study (scientific/biological branch) should not be less than 70%.
- \* Compliance with the conditions and instructions issued by the Ministry of higher education and scientific research.

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

- \* Ministry of higher education and scientific research
- \* Curricula of the faculties of Veterinary Medicine in Iraqi universities
- \* Similar colleges in Arab countries
- \* Curricula of the faculties of Veterinary Medicine in Iraqi universities
- \* Similar colleges in Arab countries

### 14. Program Development Plan

- \* **Updating curricula and teaching methods:** revising courses according to accreditation standards, integrating education and modern technologies, and increasing practical and clinical training.
- \* **Infrastructure development:** modernization of laboratories and classrooms, expansion of the Veterinary Teaching Hospital to serve students and the community.
- \* **Strengthening scientific research:** supporting publication in reputable journals, directing research towards local livestock problems, while building research partnerships.
- \* **Community service and quality:** activating mobile veterinary clinics, providing consultations to educators, and establishing a quality assurance system to obtain academic accreditation.

### 14. Program Skill Outlines

#### Program Intended Learning Outcomes

Year / Level	Course Code	Course Title	Core / Elective	Knowledge & Understanding (A1–A4)	Subject-specific Skills (B1–B4)	Cognitive Skills (C1–C4)	General & Transferable Skills (D1–D4)
First	/	Computer	Core	A1, A3	B1	C1	D1, D3
First	/	Animal Management	Core	A1	B2	C1	D2
First	/	Anatomy	Core	A1	B3	C1	D2

First	/	English Language	Core	A1	B3	C1	D2
First	/	Poultry Management	Core	A1, A2	B2	C1	D1
First	/	Democracy & Human Rights	Core	A2	B1	C2	D3
First	/	Biology	Core	A1, A2, A3	B2	C2	D2
First	/	General Chemistry	Core	A1, A2, A3	B2	C1	D3
Second	/	Physics	Core	A1, A2	B2	C1	D3
Second	/	Biochemistry	Core	A1, A2	B2, B3	C1	D2
Second	/	Anatomy	Core	A1	B2, B3	C1	D2
Second	/	Physiology	Core	A1, A2	B2	C1	D1
Second	/	Genetics	Core	A1, A3	B3	C1	D3
Second	/	Histology	Core	A2, A3	B2	C2	D2
Second	/	Animal Nutrition	Core	A2, A3	B2, B3	C2	D3
Second	/	Embryology	Core	A2, A3	B2	C2	D4
Second	/	Statistics	Core	A1, A2	B2	C1	D2
Third	/	Pathology	Core	A1, A3	B2, B3	C2	D1
Third	/	Parasitology	Core	A1, A3	B2	C1	D2
Third	/	Pharmacology	Core	A1, A2	B2, B3	C1	D2
Third	/	Microbiology	Core	A1, A2	B2	C1	D2
Third	/	Immunology	Core	A1, A2	B2, B3	C2	D2
Third	/	Toxicology	Core	A1, A3	B2, B3	C2	D1
Fourth	/	Surgery	Core	A1, A2, A3	B2, B3	C2	D2
Fourth	/	Infectious & Epidemic Diseases	Core	A1, A3	B2, B3	C2	D1
Fourth	/	Poultry Diseases	Core	A1, A3	B2, B3	C1	D2
Fourth	/	Fertility & Reproductive Diseases	Core	A1, A3	B2, B3	C2	D1
Fourth	/	Diagnostic Pathology	Core	A1, A3	B2, B3	C2	D2
Fourth	/	Internal Medicine	Core	A1, A3	B2, B3	C2	D2
Fourth	/	Zoonotic Diseases	Core	A1, A4	B2, B3	C2	D1, D3
Fourth	/	Veterinary Practice	Core	A1, A2, A3	B2, B3	C2	D2
Fifth	/	General Surgery	Core	A1, A2, A3	B2, B3	C2	D3
Fifth	/	Internal Medicine	Core	A1, A2	B2, B3	C1	D1, D3
Fifth	/	Milk Hygiene	Core	A1, A4	B2, B3	C2	D1, D2
Fifth	/	Meat Hygiene	Core	A1, A4	B2, B3	C2	D1, D2
Fifth	/	Obstetrics	Core	A1, A3	B2, B3	C2	D3



Fifth	/	Veterinary Practice	Core	A1, A2, A3	B2, B3	C2	D2
Fifth	/	Research Projects	Core	A1, A2	B3	C1	D4
Fifth	/	Fish Diseases	Core	A1, A3	B2, B3	C2	D2
Fifth	/	Forensic Pathology	Core	A1, A3	B3	C1	D4
Fifth	/	Veterinary Professional Ethics	Core	A2	B2, B3	C2	D2, D3
Fifth	/	Summer Veterinary Practice (Externship)	Core	A1, A2, A3	B2, B3	C2	D2