

University of Mosul
College of Veterinary Medicine



Bachelor's Degree Programme in
Veterinary Medicine and Surgery

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Programme Description

The Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery at the University of Mosul is a five-year, full-time undergraduate programme comprising 300 ECTS credits, fully aligned with the Bologna Process and the Iraqi National Qualifications Framework (INQF). The programme provides students with comprehensive theoretical, laboratory, and clinical training across all major fields of veterinary medicine, including anatomy, histology, physiology, pathology, microbiology, parasitology, pharmacology, internal medicine, infectious diseases, surgery, reproduction, public health, and food hygiene.

Students receive workload training through lectures, laboratory work, clinical rotations, field visits, seminars, and project-based learning. The curriculum is designed to prepare graduates for professional veterinary practice, livestock and pets health management, zoonotic disease control, and food safety. Graduates acquire the scientific, clinical, ethical, and communication competencies required to diagnose, treat, prevent, and manage animal diseases, safeguard public health, and contribute to sustainable livestock development.

For more information, visit [Programme catalogue](#) and [College of Veterinary Medicine's Mission, Vision, and Goals](#).

Programme Objectives

The Veterinary Medicine and Surgery Programme aims to:

1. Provide students with comprehensive education in Veterinary Medical Sciences and Surgery over five academic levels.
2. Develop students' clinical competencies through supervised diagnosis and treatment of animal diseases in the University Veterinary Hospital.
3. Equip graduates with the ability to advise livestock owners and animal production projects on disease management and prevention, as well as productivity improvement.

4. Protect public health by controlling zoonotic diseases transmitted from animals to humans.
5. Offer continuing education programmes to enhance the scientific and clinical skills of practicing veterinarians.
6. Conduct scientific research addressing national livestock health challenges and contributing to veterinary scientific advancement.
7. Prepare qualified academic and research personnel for universities and scientific institutions.

Awarded Qualification

Upon successful completion of all programme requirements, graduates are awarded the:

Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery

Qualification Level

The programme is classified at Level 6 of the Iraqi National Qualifications Framework (INQF), or its equivalent, in accordance with the regulations and guidelines of the Ministry of Higher Education and Scientific Research (MOHESR).

Special Admission Requirements

Admission to the Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery programme is governed by the regulations and admission policies of the Ministry of Higher Education and Scientific Research (MOHESR) and the University of Mosul. Applicants must meet the approved admission criteria for Veterinary Medicine and Surgery programme.

Qualification Requirements and Regulations

To award the B.Sc. degree in Veterinary Medicine and Surgery, students must:

1. Successfully complete 300 ECTS credits across 10 semesters.

2. Complete all theoretical, laboratory, clinical, and field training components.
3. Meet attendance requirements and pass formative and summative assessments.
4. Complete the graduation research project required in Level 5.
5. Comply with all academic regulations of the Ministry of Higher Education and Scientific Research (MOHESR) and the University of Mosul.

Recognition of Prior Learning (RPL)

Recognition of Prior Learning (RPL) and transfer of academic credits are considered only in cases of student transfer or course equivalency, in accordance with the regulations and instructions of the Ministry of Higher Education and Scientific Research (MOHESR) and the University of Mosul.

Programme Learning Outcomes / Graduate Outcomes (GOs)

Graduates of the Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery are expected to achieve the following Programme Learning Outcomes (PLOs) / Graduate Outcomes (Gos) that describe the knowledge, skills, professional competencies, and ethical responsibilities required for effective veterinary practice upon graduation.

GO1 – Knowledge and Understanding

Graduates will demonstrate comprehensive knowledge of:

1. Fundamental sciences, including biology, anatomy, histology, physiology, biochemistry, genetics, and nutrition.
2. Fundamentals of pharmacology, toxicology, microbiology, parasitology, virology, pathology, and immunology.
3. Causes, mechanisms, and manifestations of animal diseases across species (ruminants, mono-gastric, poultry, fish).
4. Principles of veterinary public health, zoonotic diseases, and meat and milk hygiene.

GO2 – Veterinary Clinical and Diagnostic Skills

Graduates will be able to:

1. Perform complete physical examination of animals, including clinical evaluation of animal body systems.
2. Conduct diagnostic procedures such as necropsy, sample collection, laboratory testing, and interpretation of clinical and pathological findings.
3. Apply appropriate diagnostic imaging techniques.
4. Diagnose pregnancy and manage obstetrical and reproductive cases.

GO3 – Veterinary Surgical and Therapeutic Skills

Graduates will be able to:

1. Administer different types of medications and implement therapeutic plans for infectious, metabolic, nutritional, and systemic diseases.
2. Apply principles of asepsis, anesthesia, wound management, and postoperative care.
3. Perform general veterinary surgical procedures on small and large animals.
4. Manage emergency cases and provide urgent medical and surgical interventions.

GO4 – Application of Veterinary Knowledge in Animal Health and Production

Graduates will be able to:

1. Apply veterinary knowledge to improve livestock production, animal husbandry, poultry management, and farm biosecurity.
2. Provide scientific advice to livestock owners and poultry farms.
3. Implement disease prevention strategies and vaccination programmes.
4. Contribute to food safety through inspection of meat, milk, and animal products.

GO5 – Professional Ethics and Legal Responsibilities

Graduates will:

1. Demonstrate ethical and professional conduct in all veterinary activities.

2. Understand and apply national laws and regulations governing veterinary practice, animal welfare, food safety, and public health.
3. Communicate honestly and professionally with animal owners, colleagues, and authorities.

GO6 – Communication, Leadership, and Teamwork

Graduates will be able to:

1. Communicate effectively with diverse stakeholders including farmers, veterinarians, laboratory personnel, and public health authorities.
2. Work efficiently within multidisciplinary teams.
3. Demonstrate leadership in managing clinical cases, supervising field activities, and coordinating veterinary interventions.

GO7 – Lifelong Learning, Research, and Professional Development

Graduates will:

1. Recognize the importance of continuous professional development.
2. Acquire, evaluate, and apply new scientific information and technologies in veterinary medicine.
3. Conduct scientific research addressing animal health, livestock production, and zoonotic diseases.
4. Contribute to community development through education, outreach, and veterinary public health initiatives.

Iraqi National Qualifications Framework (INQF)

The following table illustrates how the Veterinary Medicine and Surgery programme's Graduate Outcomes correspond to the key learning domains defined by the INQF, ensuring that graduates acquire the knowledge, skills, competencies, and professional values required for effective veterinary medicine and surgery practice and lifelong learning:

Learning Domain	Veterinary Programme Learning Outcomes
Knowledge & Understanding	Mastery of veterinary sciences, anatomy, physiology, pathology, microbiology, internal medicine, surgery, and public health. (GO1)
Skills	Ability to diagnose, treat, perform surgery, conduct laboratory tests, and interpret clinical findings. (GO2, GO3)
Application	Apply veterinary knowledge to manage animal health, prevent diseases, ensure food safety, and protect public health. (GO4)
Values	Ethical practice, communication, teamwork, leadership, and commitment to lifelong learning. (GO5, GO6, GO7)

Course and Graduate Outcomes Matrix

The Programme Learning Outcomes (PLOs) are achieved through the integrated delivery of the Veterinary Medicine and Surgery curriculum. The following matrix presents the alignment between the core courses and the Programme Learning Outcomes (PLOs), demonstrating how each course contributes to the development of the knowledge, skills, and professional competencies expected of graduates.

Core Course	GO1	GO2	GO3	GO4	GO5	GO6	GO7
General Biology	✓						
Skeleton Anatomy	✓						
Muscular Anatomy	✓						
Visceral Anatomy	✓						
Neural & Vascular Anatomy	✓						
Basic Histology	✓						
Systemic Histology & Embryology	✓						
General Physiology	✓						
Systemic Physiology	✓						
General Chemistry	✓						
Basic Biochemistry	✓						
Biochemistry	✓						
Animal Management	✓	✓		✓	✓	✓	✓
Animal Husbandry	✓	✓		✓	✓	✓	✓
Poultry Management	✓	✓		✓	✓	✓	✓

Core Course	GO1	GO2	GO3	GO4	GO5	GO6	GO7
Animal Nutrition	✓	✓				✓	
Applied Statistics	✓	✓	✓			✓	
General Microbiology	✓		✓			✓	
Veterinary Virology	✓		✓			✓	
Systematic Bacteriology & Mycology	✓		✓			✓	
Helminthology	✓		✓			✓	
Protozoa & Arthropods	✓		✓			✓	
Veterinary Immunology	✓		✓		✓	✓	
General Pathology	✓		✓			✓	
Systemic Veterinary Pathology	✓		✓			✓	
Clinical Pathology	✓	✓	✓		✓	✓	
General Pharmacology	✓	✓	✓		✓	✓	
Clinical Pharmacology & Toxicology	✓	✓	✓		✓	✓	
Animal Physical Examination	✓	✓	✓	✓	✓	✓	✓
Gastroenterology Medicine	✓	✓	✓		✓	✓	
Respiratory & Neural Medicine	✓	✓	✓		✓	✓	
Ruminant Infectious Diseases	✓	✓	✓		✓	✓	
Infectious Poultry Diseases	✓	✓	✓		✓	✓	
Non-infectious Poultry Diseases	✓	✓	✓		✓	✓	
Monogastric Infectious Diseases	✓	✓	✓		✓	✓	
General Veterinary Surgery	✓	✓	✓		✓	✓	✓
Orthopedic Surgery & Diagnostic Imaging	✓	✓	✓		✓	✓	✓
Large Animal Surgery	✓	✓	✓		✓	✓	✓
Small Animal Surgery	✓	✓	✓		✓	✓	✓
Fertility & Genital Diseases	✓	✓	✓		✓	✓	✓
Veterinary Obstetrics	✓	✓	✓		✓	✓	✓
Reproductive Biotechnology & AI	✓	✓	✓		✓	✓	✓
Meat Hygiene	✓	✓	✓	✓	✓	✓	✓
Milk Hygiene	✓	✓	✓	✓	✓	✓	✓
Fish Diseases	✓	✓	✓		✓	✓	
Veterinary Ethics	✓			✓	✓	✓	✓
Morbid Anatomy & Forensic Medicine	✓	✓	✓		✓	✓	✓
Basic Veterinary Clinic	✓	✓	✓	✓	✓	✓	✓
Veterinary Clinic	✓	✓	✓	✓	✓	✓	✓
Primary Rotation Clinic	✓	✓	✓	✓	✓	✓	✓
Specialized Rotation Clinic	✓	✓	✓	✓	✓	✓	✓
Graduation Project	✓	✓	✓	✓	✓	✓	✓

Professional profiles of graduates or Graduate professional profiles

Graduates of the Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery can work in:

1. Government veterinary hospitals and clinics.
2. Private veterinary clinics.
3. Livestock and poultry production projects.
4. Veterinary laboratories (diagnostic, microbiology, parasitology, pathology).
5. Meat hygiene and food safety inspection units.
6. Public health and zoonotic disease control programmes.
7. Research centers and universities (after postgraduate studies).
8. Animal quarantine and border inspection authorities.
9. Pharmaceutical and vaccine companies.

Opportunities to continue studying (pursuing postgraduate studies)

Graduates of the Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery may pursue:

Postgraduate Studies: MSc and PhD in

1. Veterinary Physiology
2. Veterinary Biochemistry
3. Veterinary Pharmacology and Toxicology
4. Veterinary Anatomy
5. Veterinary Internal and Preventive Medicine
6. Veterinary Clinical Pathology
7. Veterinary Epidemiology
8. Veterinary Public Health
9. Veterinary Pathology
10. Poultry Diseases
11. Veterinary Surgery
12. Veterinary Obstetrics
13. Veterinary Microbiology
14. Veterinary Parasitology

Professional Development

1. Clinical specialization courses
2. Laboratory diagnostic training
3. Food hygiene and public health certification

Examination regulations, assessment, and grading

The Veterinary Medicine and Surgery Programme adopts the examination, assessment, and grading regulations approved by the Ministry of Higher Education and Scientific Research (MOHESR) and the University of Mosul. Student performance is evaluated through a variety of continuous and summative evaluation methods, including:

- Continuous assessment (quizzes, assignments, and classroom activities).
- Midterm examinations.
- Final examinations.
- Laboratory reports and practical assessments.
- Summer training.
- Oral presentations and seminars.
- Graduation project assessment.

The minimum passing grade is 50%.

Graduation requirements

To be eligible for the award of the Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery, students must successfully fulfill all graduation requirements in accordance with the regulations of the Ministry of Higher Education and Scientific Research (MOHESR) and the University of Mosul, including:

- Complete 300 ECTS across 10 semesters.
- Pass all modules.
- Complete the graduation research project.
- Fulfill clinical rotation requirements.

Academic study mode

The Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery programme is full-time and student-centered, integrating:

- Lectures
- Laboratory work
- Clinical rotations
- Field training
- Seminars
- Research project
- Veterinary hospital training

Programme coordinator

The Programme Coordinator is responsible for the overall coordination, implementation, and continuous improvement of the Bachelor of Science (B.Sc.) in Veterinary Medicine and Surgery programme. The role includes overseeing the implementation of the curriculum, monitoring the achievement of the Graduate Outcomes, coordinating academic activities among faculty members and students, supervising laboratory and field training activities, and ensuring alignment with the University of Mosul's quality assurance policies, the Ministry of Higher Education and Scientific Research (MOHESR) regulations, and programme accreditation requirements. The Programme Coordinator also supports curriculum review and enhancement to ensure that the programme remains responsive to advances in Veterinary Medicine and Surgery as well as industry needs.

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