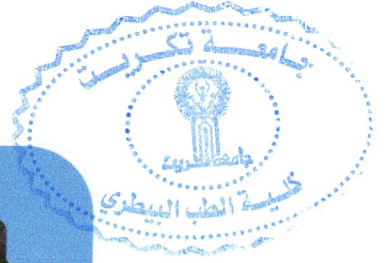
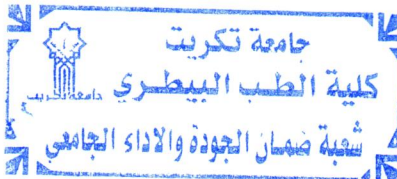


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Academic Program and Course Description Guide

2025 – 2026



the introduction

The educational program is considered a coordinated and organized package of academic courses that includes procedures and experiences organized in the form of academic 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 courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone of obtaining program accreditation, and the teaching staff participates in writing it under the supervision of the scientific committees in the scientific departments

This guide, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the latest developments in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, quarterly), in addition to adopting the description of the academic program circulated according to the book of the Department of Studies, 3/2906. On 5/3/2023 with regard to programs that adopt the Bologna Process as a basis for their work

In this area, we can only emphasize the importance of writing descriptions of academic programs and courses to ensure the smooth conduct of the educational process

:Concepts and terminology

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

Course Description: Provides a necessary summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he or she has 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 a developed, inspiring, motivating, realistic and applicable program

The program's mission: It briefly explains the goals and activities necessary to achieve them, and also defines the program's development paths and directions

Program objectives: These 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/study subjects included in the academic program according to the approved learning system (semester, annual, Bologna track), whether it is a requirement (ministry, university, college, or scientific department), along with the number of study units

Learning outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program. The learning outcomes for each course must be determined in a way that achieves the program objectives

Teaching and learning strategies : They are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, it describes all curricular and extracurricular activities to achieve the learning outcomes of the programme

Academic program description form

University name: University of... Tikrit...
.....College/Institute: College ofVeterinary Medicine
..... Public HealthScientific Department: Branch
Name of the academic or professional program: **Genetics.**
.Name of final degree: Bachelor of Veterinary Medicine and Surgery
.Academic system: semester
. Date of preparing the description: 5/10/2025
. Date of filling out the file: 6/11/2025



Signature:

Head of Department Name:

P.h.D. Ali Qays jali
Veterinary public health

Date: 6 - 11 - 2025

Signature:

Scientific Associate Name:

Date: 6 - 11 - 2025
Asst. Prof. Dr.
Montaser M. Helal

the file before

Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University Performance

Date: 6/11/2025

the signature

Asist. Prof. Dr.
Ahmed Abdullah Sultan

Authentication of the Dean

Tikrit University
College of Veterinary Medicine
Prof. Dr. Bashar Sadiq Noomi
Dean of the College



1. See the program

Seeking college Veterinary Medicine to be one of the leading higher education institutions of the University Tikrit is in the field of modern education and scientific research through its scientific, research and administrative activities. It also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of teaching the skills and sciences of veterinary medicine, raising and improving animals , and the genetic aspect and its . .developments

2. Program message

Working to prepare and graduate leading scientific and leadership competencies in veterinary medicine and its sciences and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of .the local market

3. Program Goals

1. Embodying the vision, mission and goals of a university Tikrit Applying the best educational practices with a focus on ensuring and enhancing quality .and performance
2. Preparing specialized cadres capable of serving the community and .preparing for the preparation of future specializations
3. the level of knowledge of the student in the field of veterinary medicine and preparing him scientifically to be knowledgeable With the outputs of genetics vocabulary through identifying genetic structures and variations, alleles, naturalization, selection, mutations, migration, etc., and enhancing his ability to manage fields and herds of different animals, as well as paying .attention to successful management methods
4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of education and .learning
5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the .nation
6. Paying attention to intellectual and cultural construction through

openness to the experiences of other countries in the experiments of inheritance
 . and selection

7. Working to meet the community's need in the field of specialization by
 developing various plans that keep pace with scientific and practical
 .developments in this specialization

4. Program accreditation

National institutional accreditation standards for higher education institutions in
 Iraq

5. Other external influences

Laboratories, animal field, library and Internet, veterinary hospital, veterinary
 .projects, journals and research

6. Program structure

| * comments | percentage | Study unit | Number of courses | Program structure |
|--------------|------------|------------|-------------------|-------------------------|
| Basic course | | 2 | 30 | Enterprise requirements |
| | | | Yes | College requirements |
| | | | Yes | Branch requirements |
| | | | nothing | summer training |
| | | | | Other |

.Notes may include whether the course is core or elective *

7. Program description

| Credit hours | Name of the course or course | Course or course code | Year/level |
|--------------|------------------------------|-----------------------|-------------------|
| theoretical | Genetics | VEH2106 | second /2025-2026 |

8. Expected learning outcomes of the programme

Knowledge

- 1- .Cognitive goals
- 2- Identify genetic structures and variations, alleles, naturalization, selection, . mutations, migration, etc
- 3- Enabling students to know and understand genetics and methods of .animal husbandry and management

Skills

- 1- Providing the student with skills in how to deal with different types of .animals
- 2- Providing the student with skills in how to use field and laboratory .equipment and tools
- 3- Providing the student with the appropriate skills to select breeds with .high production efficiency for animals

Value

There is a committee formed in the college that is responsible for evaluating the application of the protocol for dealing with animals and the extent of researchers' commitment to the paragraphs of the protocol. Accordingly, the committee is responsible for following up on the researchers' commitment to its listed paragraphs and inspecting animal facilities in order to ensure compliance with Animal .the selection of breeds with high production efficiency regulations and care and use, noting that Iraq is a member of the OIE.

9. Teaching and learning strategies

- 1- Identify genetic structures and variations, alleles, naturalization, selection, mutations, .migration, and others
- 2- Identify the most important signs of health and indications of the occurrence of diseases .and accompanying symptoms
- 3- .Familiarity with the nutritional needs of each animal and each physiological stage

10. Evaluation methods

- 1- .Daily, monthly and final exams
- 2- .Reports
- 3- .Student activities by keeping laboratory animals and participating in conducting experiments on them

| | | | | | | |
|------------------------------|-------|--------------------------------------|--|----------------|-------------------|-----------------|
| 11. education institution | | | | | | |
| Faculty members | | | | | | |
| Preparing the teaching staff | | Special requirements/skills (if any) | | Specialization | | Scientific rank |
| lecturer | angel | | | private | general | |
| | angel | | | | animal production | Teacher |

| |
|--|
| Professional development |
| Orienting new faculty members |
| Guiding new members of the teaching staff on the optimal method for presenting and presenting lectures, emphasizing the practical aspect in the field and applying the theoretical aspect to animals |
| Professional development for faculty members |
| Explaining the mechanism for arranging and sequencing lectures, as well as the assessment and evaluation methods used to fix grades for students |

| |
|--|
| 12. Acceptance standard |
| Central admission according to the electronic form prepared for this purpose |

| |
|---|
| 13. The most important sources of information about the program |
| 1-)2014 2006, Spencer& Cummings, Clug 1 .-Genetics Concepts 2- .External source books 3- Strachan & Reed (2004).Molecular Human Genetics. 4- .Specialized scientific websites |

| |
|---|
| 14. Program development plan |
| the course to Creating new vocabulary to be added But no Less than |

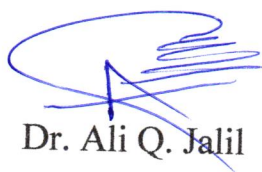
Course description form

| | |
|---|--------------|
| 1. : Course Name | |
| Genetics | |
| 2. : Course Code | |
| V.E GEN126 | |
| 3. : Semester / Year | |
| quarterly | |
| 4. Date this description was prepared: | |
| 5/10/2025 | |
| 5. Available forms of attendance: | |
| My presence only | |
| 6. :Number of study hours (total)/number of units (total) | |
| . hours annually 0 3 | |
| . An hour a week 2 | |
| 7. Name of the course administrator (if more than one name is mentioned) | |
| Ph.D. Osama Hamid Shehab Osamahameed61@tu.edu.iq | |
| 8. Course objectives | |
| Identify genetic structures and variations, alleles, naturalization, selection, – .mutations, migration, etc .Teaching the student laboratory skills on how to deal with animals – Teaching the student how to use laboratory equipment and tools used to control – and control animals | |
| 9. Teaching and learning strategies | |
| -1 .Education strategy, collaborative concept planning -2 .Brainstorming education strategy 3 Education Strategy Notes Series - | The strategy |

10- Courses level: Second year
Course Name: Theoretical Genetic/ 2 hours
Semester: first

| Evaluation method | Teaching method | Name of the unit/course or subject | Required learning outcomes | hours | the week |
|-------------------------------------|---------------------|--|--|---------------------|----------|
| Daily exam questions and discussion | + Lecture data show | Development of Genetics and its theories. 3 | Learn about the development of genetics | theoretical 3 hours | 1 |
| Daily exam questions and discussion | + Lecture data show | Cell and chromosome 3 | Cell behavior and chromosomes | theoretical 3 hours | 2 |
| Daily exam questions and discussion | + Lecture data show | Mundelein Laws and its amendments 3 | Mendel's laws and their modifications | theoretical 1 hour | 3 |
| Daily exam questions and discussion | + Lecture data show | Genetics and statistics in the analysis of genealogy 3 | Genetics, statistics and their role in genealogical analysis | theoretical 3 hours | 4 |
| Daily exam questions and discussion | + Lecture data show | The interaction between genes 3 | Overlapping between genes | theoretical 3 hours | 5 |
| Daily exam questions and discussion | + Lecture data show | Multiple alleles and 3 | Polyalleles and allelic errors | theoretical 3 hours | 8-6 |
| Daily exam questions and discussion | + Lecture data show | Assigned sex and genetics associated with it 3 | Determining sex and its connection to heredity | theoretical 3 hours | 10-9 |
| Daily exam questions and discussion | + Lecture data show | Link, transit and genetic maps 3 | Linkage, crossing, and genetic maps | theoretical 3 hours | 13-11 |
| Daily exam questions and discussion | + Lecture data show | Chromosomal mutations 2 | Chromosomal mutations | hours 2 theoretical | 14 |
| Daily exam questions and discussion | + Lecture data show | Chemical basis and engineering of heredity 2 | Chemical bases and genetic engineering | hours 2 theoretical | 15 |

Examine



Dr. Ali Q. Jalil

Head of public health branch

6 – 11 – 2025