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 - 2025

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.

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Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: Veterinary Medicine

Scientific Department: Anatomy and histology

Academic or Professional Program Name:Embryology

Final Certificate Name: Bachelor of Veterinary Medicine and Surgery

Academic System: Semester

Description Preparation Date: 5/10/2024

File Completion Date: 6 / 10/2024

Signature:

Scientific Associate Name:

Proph. Dakheel Hussein Hedree

Date: 6/10/2024

Signature:

Head of Department Name:

Bader khatlan hameed

Date: 6/10/2024

The file is checked by:

Assist. Prof . Dr Ahmed Abdullah Sultan

Quality Assurance And University Performance Manager

Date : 6 / 10 / 2024

Signature:

جامعة تكريت
كلية الطب البيطري
شعبة ضمان الجودة والاداء الجامعي

Approval of the Dean

Prof. Dr. Bashar Sadeq Numi

1. **Program Vision**
Program vision is written here as stated in the university's catalogue and website.

2. **Program Mission**
Program mission is written here as stated in the university's catalogue and website.

3. **Program Objectives**
General statements describing what the program or institution intends to achieve.

4. **Program Accreditation**
Does the program have program accreditation? And from which agency?

5. **Other external influences**
Is there a sponsor for the program?

6. **Program Structure**

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	60 hours (theoretical) + 30 hours (practical), first semester 60 hours	3 first semester units + 3 second semester units		Basic course

College Requirements	**Yes**			
Department Requirements	**Yes**			
Summer Training	**No**			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
Theoretical Embryology	VEA2112		theoretical	practical
			1	

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	1- Enabling students to know anatomy, methods of injecting animals for the purpose of preserving corpses and teaching them to students, and the relationship of anatomy to other sciences. 2- Enabling students to know and understand histology, methods of preparing tissue sections, and the relationship of histology to other sciences such as diseases and pathological diagnoses. 3- Enabling students to learn about embryology and the ages of fetuses, in addition to their development at different stages until birth.
Skills	
Learning Outcomes 2	1 - Providing the student with skills in how to dissect a corpse, identify organs, methods of injection, and preserve samples 2- Providing the student with skills in how to make textile templates, cut them, make textile slides, and read them 3 - Providing the student with the skills of diagnosing field animal embryos and distinguishing their organs visually or using sonar devices.

Ethics	
Learning Outcomes 4	1- Teaching the student to know the structures and organs of the animal body, in addition to the blood, lymphatic and nervous systems, body tissues, embryonic development of animals, and how cells divide. 2- Linking anatomy to other sciences. 3- Teaching the student how to make, study and compare tissue slides. 4- Introducing the student to the differences between animal embryos of different types and identifying abnormal fetal deformities among them.

9. Teaching and Learning Strategies

1- Explaining the scientific material through theoretical and practical teaching.

2- Using modern means of illustration such as PowerPoint and others.

10. Evaluation methods

1-Theoretical exams (daily, monthly, end of semester)
2- Practical exams (daily, monthly, end of semester)

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
1 - Assistant Professor	Veterinary	Veterinary anatomy			staff	

2 - Teacher, Doctor of Veterinary Medicine and	medicine	and histology				

Professional Development
Mentoring new faculty members
Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

https://www.wiley.com/en-dk/Veterinary+Embryology,+2nd+Edition-p-9781118940617

14. Program Development Plan

- Courses related to fish embryology will be created at 10% of the course
- embryology of ornamental birds, 30% of poultry anatomy

Mummification and how to preserve bodies in ways that are less harmful to the student, at a rate of 10% of the course

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
2024/2025 Second	VEA2112	Embryology	Basic		x			x					x		

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

Course Description Form

1. Course Name: Veterinary Anatomy first
2. Course Code:
VEA2112 theoretical
3. Semester / Year:
2024/2025,
4. Description Preparation Date:
21/1/2025
5. Available Attendance Forms:
Attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
(60 theoretical + 90 practical),
7. Course administrator's name (mention all, if more than one name)
Name:Ass Pro. Dr. Mahmood nawfal mustafa Email: Mahmood_nawfal@tu.edu.iq
8. Course Objectives

Course Objectives	**1- Increasing the student's knowledge and understanding in the field veterinary medicine and preparing him scientifically so that he is familiar v the anatomical and histological structures of the animal's body so that h able to recognize the changes that occur in the various organs and tissue the body when infection with various pathogens occurs.** **2- Increasing the student's cognitive awareness regarding the vari embryonic stages, starting from the beginning of embryonic formation u the time of birth, and benefiting from it in distinguishing between nor fetuses and abnormal ones that suffer from congenital deformities.** **3- Working to meet the community's need in this field by developing vari plans that keep pace with scientific and practical developments in the fiel veterinary medicine.** **4- Increasing the student's skills in the field of employment and s development enables him to compete with others in the labor market.**

9. Teaching and Learning Strategies

Strategy	1-Electronic learning method 2- Brainstorming education strategy. 3- Education Strategy Notes Series

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1Theoretical	Lecture and explanation	Introduction, oogen spermatogenesis	Introducing student to the sta of egg and spe formation	Question discussio and daily exa
2 -3	=	=	Fertilization, cleav implantation	Learn about process fertilization, cleavage, a implantation	=
4	=	=	Trilaminar embryonic disc	Introducing student to the thr layered embryo disc	=
5	=	=	Placentation	Identify the placer	=
6	=	=	Development of uroger system	Learn about development of genitourinary syst	=
7 -8	=	=	Development of body cavit	Learn about development of body cavity	=
9	=	=	Development of digestive system	Learn about development of digestive system	=
10 - 11	=	=	Development of respiratory system	Knowledge of development of respiratory system	=

12 - 13	=	=	**Development of respiratory system**	Knowledge of development of respiratory system	=
14 - 15	=	=	**Development cardiovascular system**	Identify development of cardiovascular syste	=

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	**Veterinary Embryology, 2nd Edition** T. A. McGeady, P. J. Quinn, E Fitzpatrick, M. T. Ryan, Kilroy, P. Lonergan
Main references (sources)	**-Journal of embryology**
Recommended books and references (scientific journals, reports...)	Scientific websites specialized anatomy, histology and embryology, well as websites for electronic lecture PDF format
Electronic References, Websites	https://scholar.google.com/ https://www.researchgate.net/