



Academic Program Description Form

University Name: Mosul

Faculty/Institute: Agriculture and forestry

Scientific Department : Dept. Animal production

Academic or Professional Program Name: MSc. In Animal production

Final Certificate Name: MSc. In Animal production sciences

Academic System: Courses

Description Preparation Date: 1\9\2025



Signature:

Head of Department Name:

Prof. Dr. Omar Dheyaa AlMallah

Date: 1\9\2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist. Lect. Oday Abdulhadi Adday

Date: 2/9/2025

Signature:

Quality Assurance Unit Officer: Lect. Dr. Ramia Amer Khalil

Date: 2/9/2025

Signature

File Completion Date:

Signature:

Scientific Associate Name:

Prof. Dr. Hamid Hmud Ali

Date:



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Approval of the Dean

1. Program Vision

Excellence and sophistication in academic education, leadership in community service, and quality in scientific research in the fields of animal production in pursuit of international

2. Program Mission

Contributing to achieving sustainable development by preparing a specialized agricultural engineer qualified to work in the fields of animal production, committed to professional ethics, highly competent in terms of science and applied skills, and capable of meeting the needs of the local, regional and global labor market and serving the community at a competitive level through developing scientific research and self-learning skills. Continuous.

3. Program Objectives

- 1– Preparing specialized scientific cadres, trained and with scientific competencies in the field of animal production, who are able to face the challenges of the profession and compete with their peers in serving the community and meeting the needs of the labor market.
- 2– Developing a modern, stimulating educational environment equipped with the latest technologies and advanced equipment that enables the student to compete, create, and differentiate, and creates in him the desire to continue continuous learning, self-development, skills, and the ability to develop performance, work within a team, and make decisions in the field of animal production.
- 3– Qualifying cadres familiar with agricultural legislation, legal and social issues, and commitment to work ethics and quality management related to agricultural fields, especially those related to animal production.

4– Managing and employing resources and addressing problems in agricultural facilities and projects with efficiency and good performance in the field of animal production within the framework of preserving natural resources, biodiversity and sustainable development.

5– Possess skills in the fields of language and use of computers and develop their abilities to use the scientific and practical method in research in the field of animal production and contribute to solving related agricultural problems.

6– Can analyze the ways in which humans, plants, and soil interact with the general environment in order to promote the conservation of natural resources and protect the environment

7– Evaluates the characteristics of soil and water and determines appropriate agricultural use patterns in the field of animal production under different environmental conditions and under the conditions of preserving the soil from deterioration and water from pollution for the sake of a clean, sustainable environment.

8– Able to practice the profession of manufacturing poultry, animal meat, fodder, dairy products, or dairy cows, and manufacturing animal products using economic and business concepts to produce market requirements of multiple high-quality animal products such as meat, dairy, and fish.

9– Preparing graduates with the skills required in managing, breeding, raising and feeding horses to work in recreational and tourism activities for horses.

10– Able to manage feed and produce animal food in an effective and safe way for livestock and human health, and to be environmentally friendly.

11– It can develop and raise sustainable aquaculture and food safety, by equipping students with technology and management skills for aquaculture and fish products.

12– Can study domestic and wild animals that are used for human entertainment, enjoyment, and sporting activities, and the related nutrition,

management, and genetic improvement, and prepare graduates for job opportunities in the fields of marketing and feeding pets and captive animals.

13– Knowledge of programs to prevent epidemic, endemic and common diseases and manage animal waste with the concepts of sustainability and environmental preservation.

14– It can preserve the genetic and environmental resources of the national livestock and plan to improve the breeds genetically and use modern scientific concepts to acclimatize them and develop new species suitable for breeding on farms.

15– Able to apply various biotechnology methods in the field of reproduction and artificial insemination in farm animals

16– He possesses advertising and marketing skills, as well as labeling, presenting and selling food animal products

17– He is able to evaluate and analyze agricultural projects in the field of animal production and investment in agricultural natural resources and develop plans for their development and growth.

4. Program Accreditation

nothing

5. Other external influences

nothing

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	3	2	7.40	basic
Department Requirements	9	25	92.60	Basic and elective
Other				

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

7. Program Description				
Preparatory year	Course Code	Course Name	Credit Hours	
2025-2026/first semester	Ag.A. 601	Advanced Animal Nutrition 1/Basic	theoretical	practical
2025-2026/first semester	Ag.A. 603	Advanced Animal Breeding and Improvement / Basic	2h	3h
2025-2026/first semester	Ag.Co. 601	Computer 2 / Basic	2h	----
2025-2026/first semester	Ag.Co. 604	Seminar 1 / Basic	1h	----
2025-2026/first semester	Ag.A. 608	Advanced Poultry nutrition	2h	3h
2025-2026/first semester	Ag.A. 609	Ruminant nutrition	2h	3h
2025-2026/first semester	Ag.A. 607	Fish farming	2h	3h
2025-2026/first semester	Ag.A. 604	Fish nutrition	2h	3h
2025-2026/first semester	Ag.A. 606	Aquatic environment and water body management	2h	3h
2025-2026/first semester	Ag.A. 605	Poultry production	2h	3h
2025-2026/first semester	Ag.A. 610	Advanced reproductive physiology	2h	3h
2025-2026/first semester	Ag.A. 611	Poultry Physiology	2h	3h
2025-2026/first semester	Ag.A. 612	Advanced Biochemistry	2h	3h
2025-2026/first semester	Ag.A. 601	Poultry breeding	2h	3h
2025-2026/second semester	Ag.A. 602	Advanced Animal Nutrition 2 / Basic	2h	3h
2025-2026/second semester	Ag.A. 601	Advanced Basic Experiment Design and Analysis/ basic	2h	3h

2025–2026/second semester	Ag.Co. 602	English Language 2/ basic	2h	-----
2025–2026/second semester	Ag.Co. 603	Research Methodology 1/ Basic	2h	-----
2025–2026/first semester	Ag.A. 608	Advanced Poultry nutrition	2h	3h
2025–2026/first semester	Ag.A. 609	Ruminant nutrition	2h	3h
2025–2026/first semester	Ag.A. 607	Fish farming	2h	3h
2025–2026/first semester	Ag.A. 604	Fish nutrition	2h	3h
2025–2026/first semester	Ag.A. 606	Aquatic environment and water body management	2h	3h
2025–2026/first semester	Ag.A. 605	Poultry production	2h	3h
2025–2026/first semester	Ag.A. 610	Advanced reproductive physiology	2h	3h
2025–2026/first semester	Ag.A. 611	Poultry Physiology	2h	3h
2025–2026/first semester	Ag.A. 612	Advanced Biochemistry	2h	3h
2025–2026/first semester	Ag.A. 601	Poultry breeding	2h	3h

8. Expected learning outcomes of the program

Knowledge

A1	The student demonstrates an advanced understanding of scientific concepts related to animal production, such as nutrition, management, genetics and physiology, by achieving measurable outcomes in scientific tests.
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Skills

B1	Developing critical thinking, analytical and data interpretation skills in relation to animal production, as well as the ability to formulate testable research hypotheses.
B2	The ability to learn independently and keep up with scientific and technological developments in animal production in order to identify gaps in knowledge and skills.
C1	The ability to diagnose and analysis production problems, find innovative solutions and improve performance by applying advanced scientific research methodologies.
C2	Developing advanced skills in managing animal projects using modern technologies to improve productivity while ensuring environmental sustainability.
D1	Mastering scientific and professional communication skills, including academic writing, presentations and working in teams within scientific research environments.
E1	Promoting the ethical values of scientific research in relation to animals, the environment and society.

9. Teaching and Learning Strategies

Interactive lecture strategy	The most important educational strategies:
Discussion strategy	Cooperative education
Problem solving strategy by commissioning reports	Teaching using projects
Brainstorming strategy	Education using technology

10. Evaluation methods

Quarterly and daily tests
 Completion of projects
 Discussion and reports on each course item
 self evaluation

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
prof	Animal production	Animal Nutrition			38	0
Assistant prof		Animal management				
lecture		Animal breeding				
Assistant lecture		Animal physiology				

Professional Development

Mentoring new faculty members

Improving teaching methods and making them more effective, conducting research and community service

Professional development of faculty members
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| 1– Self–development by following the publications of scientific publishing houses and participating in conferences and workshops.
2– Providing support for professors to participate in various scientific and community activities. |
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12. Acceptance Criterion

central

13. The most important sources of information about the program
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Methodology books Modern electronic copies of books and periodicals Scientific reports in the field Scientific publications and research issued by reputable universities.

14. Program Development Plan

The program is developed based on:

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| 1– Determine the market needs and skills required by the labor market and that the student needs to succeed
2– Review current programs to identify strengths and weaknesses and improve them
3– Determine and constantly update the evaluation methods for the program
4– Developing educational content in line with scientific developments.
5–Activating cooperation with the agricultural and industrial sectors to develop the practical side and link theoretical knowledge with practical application. |
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Program Skills Plan										
Learning outcomes required from the program										
Preparatory year	Course code	Course Name	Essential or optional	Knowledge and understanding	Mental skills		Professional skills		Communication skills	Beliefs and values
				A1	B1	B2	C1	C2	D1	E1
2025 –2026 / the chapter the first	Ag.A. 601	Advanced Animal Nutrition 1	essential							
	Ag.A. 603	Advanced animal breeding and improvement	essential							
	Ag.Co. 601	Computer 2 / Basic	essential							
	Ag.Co. 604	Seminars 1 / Basic	essential							
	Ag.A. 608	Advanced poultry nutrition	elective							
	Ag.A. 609	Ruminant feeding	elective							
	Ag.A. 607	fish farming	elective							
	Ag.A. 604	Fish feed	elective							
	Ag.A. 606	Aquatic environment and water bodies management	elective							
	Ag.A. 605	Poultry production	elective							
	Ag.A. 610	Advanced reproductive physiology	elective							
	Ag.A. 611	Poultry physiology	elective							
	Ag.A. 602	Advanced Biochemistry	elective							
	Ag.A. 612	Poultry breeding and improvement	elective							
	Ag.A. 602	Advanced Animal Nutrition 2	essential							
202 6 – 5202 / Chapter Two	Ag.A. 601	Advanced Experiment Design and Analysis	essential							
	Ag.Co. 602	English Language 2	essential							
	Ag.Co. 603	Research Methodology 1	essential							
	Ag.A. 608	Advanced poultry nutrition	elective							
	Ag.A. 609	Ruminant feeding	elective							
	Ag.A. 607	fish farming	elective							
	Ag.A. 604	Fish feed	elective							
	Ag.A. 606	Aquatic environment and water bodies management	elective							
	Ag.A. 605	Poultry production	elective							
	Ag.A. 610	Advanced reproductive physiology	elective							
	Ag.A. 611	Poultry physiology	elective							
	Ag.A. 602	Advanced Biochemistry	elective							
	Ag.A. 612	Poultry breeding and improvement	elective							

