

# University of Mosul

## جامعة الموصل



*First Cycle – Bachelor's degree (B.Sc.) – Animal Production*



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### 1. **Mission & Vision Statement**

#### ***Vision Statement***

Animal Production Department preparing and qualifying trained technical cadres capable of supplying the private sector and relevant government institutions (faculties of agriculture - the Ministry of Agriculture and its affiliated departments - relevant research institutions and centers) with scientific competencies and distinguished technical expertise in animal production that improve and increase the local product of the food basket to achieve economic returns and events. A qualitative leap in performance that is compatible with the population increase, labor market requirements, and keeping pace with global development and progress 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

#### ***Mission Statement***

The Animal Production academic staff pursues a multifaceted charge at College of Agriculture and University of Mosul. The Program seeks to provide Encouraging young people who graduate from preparatory schools and agricultural institutes to engage in agricultural academic training for Iraqi agricultural colleges to ensure that they obtain future job opportunities that serve the labor market and develop the foundations of sustainable development in Iraq to enhance food security. 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.

## 2. Program Specification

|                 |                       |                       |           |
|-----------------|-----------------------|-----------------------|-----------|
| Programme code: | BSc-BIO               | ECTS                  | 240       |
| Duration:       | 4 levels, 8 Semesters | Method of Attendance: | Full Time |

Write something like:

Animal production is a wonderfully wide-ranging subject and is well equipped to deliver. The emphasis of the programmer is the whole animals to which everything is related, be it the molecules that form livestock animal's production in specializations (Animal nutrition, Animal breeding, Animal management and Animal physiology). All students have the opportunity to transfer onto our specialist degrees in animal production.

The first level introduces students to the basics of basic agricultural sciences, and is suitable for progression to advanced stages in animal production sciences. Core program-specific topics are covered at Level 2 to prepare for specialist modules in research-led topics at Levels 3 and 4. Therefore it is done Training the graduate of the Animal Production Department to acquire communication skills, the relationship of the environment to animal production, and modern methods in agricultural marketing, so that the student's learning outcomes are paved for g In levels 2, 3 and 4, students have the freedom to choose more than half of their study units provided that a set of units is chosen that reflects the importance of specialized lessons that ensure that the student benefits from the targeted learning outcomes of the program and that are in line with the labor market and facilitate integration into the labor market for the graduate from During the breadth of knowledge expected of an animal production sciences graduate. The research ethos is developed and fostered from the start via practical's, which are either embedded in lecture modules or taught in dedicated practical modules, research seminars and tutorials. There is a compulsory field course in Level 1, which students must pass in order to progress into Level 2, and optional field courses in Levels 2, 3 and 4. At Level 4 all students carry out an independent research project, which may be a xx credit library or data analysis project. Academic tutorials are held at Levels 1 and 2 with the same tutor, who is also the personal tutor, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context. International years and Industrial placements are also offered and individual needs are discussed with the appropriate tutor and accommodated wherever possible.

## 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. Student Learning Outcomes**

The academic program in the Department of Animal Production specializes in developing human resources and scientific qualification for graduate students in the management of agricultural animals, poultry birds, and fish according to the following sciences and specializations: (animal management - animal nutrition - animal physiology - animal husbandry and improvement - various animal products). The department is keen to integrate practical and theoretical lessons as much as possible and seeks to provide laboratories and fields that help hone students' skills and transform them into practical experiences, as well as focusing on field practice and summer training courses.

### **Outcome 1**

#### *Identification of Complex Relationships*

Graduates will be able to illustrate the principles of animal production and explain the strains of farm animals.

### **Outcome 2**

#### *Oral and Written Communication*

Graduates will be able to formally communicate the results of animals investigations using both oral and written communication skills.

### **Outcome 3**

#### *Laboratory and Field Studies*

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

### **Outcome 4**

#### *Scientific Knowledge*

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

### **Outcome 5**

#### *Data Analyses*

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

### **Outcome 6**

#### *Critical Thinking*

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

## 5. Academic Staff

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## 6. Credits, Grading and GPA

### Credits

University of Mosul is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

### Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

| GRADING SCHEME<br>مخطط الدرجات                                                                                                                                                                                                                                                                                                                                           |                  |                     |           |                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|-----------|---------------------------------------|
| Group                                                                                                                                                                                                                                                                                                                                                                    | Grade            | التقدير             | Marks (%) | Definition                            |
| Success Group<br>(50 - 100)                                                                                                                                                                                                                                                                                                                                              | A - Excellent    | امتياز              | 90 - 100  | Outstanding Performance               |
|                                                                                                                                                                                                                                                                                                                                                                          | B - Very Good    | جيد جدا             | 80 - 89   | Above average with some errors        |
|                                                                                                                                                                                                                                                                                                                                                                          | C - Good         | جيد                 | 70 - 79   | Sound work with notable errors        |
|                                                                                                                                                                                                                                                                                                                                                                          | D - Satisfactory | متوسط               | 60 - 69   | Fair but with major shortcomings      |
|                                                                                                                                                                                                                                                                                                                                                                          | E - Sufficient   | مقبول               | 50 - 59   | Work meets minimum criteria           |
| Fail Group<br>(0 - 49)                                                                                                                                                                                                                                                                                                                                                   | FX – Fail        | راسب - قيد المعالجة | (45-49)   | More work required but credit awarded |
|                                                                                                                                                                                                                                                                                                                                                                          | F – Fail         | راسب                | (0-44)    | Considerable amount of work required  |
| Note:                                                                                                                                                                                                                                                                                                                                                                    |                  |                     |           |                                       |
| Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above. |                  |                     |           |                                       |

### Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [ (1^{\text{st}} \text{ module score} \times \text{ECTS}) + (2^{\text{nd}} \text{ module score} \times \text{ECTS}) + \dots ] / 240$$

## 7. Curriculum/Modules

### Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

| Code    | Module                                       | SSWL | USSWL | ECTS | Type | Pre-request |
|---------|----------------------------------------------|------|-------|------|------|-------------|
| UOM1031 | COMPUTER                                     | 47   | 28    | 3.00 | B    |             |
| UOM1040 | DEMOCRACY and HUMAN RIGHTS                   | 32   | 18    | 2.00 | B    |             |
| UOM1021 | ENGLISH LANGUAGE1                            | 32   | 18    | 2.00 | B    |             |
| MAT1010 | MATHEMATICS                                  | 63   | 112   | 7.00 | B    |             |
| ACE1020 | AGRICULTURAL CARRER ETHICS                   | 62   | 63    | 5.00 | S    |             |
| END1030 | ENGINEERING DRAWING                          | 63   | 87    | 6.00 | B    |             |
| AET1040 | AGRICULTURAL ENGINEERING TECHNIQUES TRANSFER | 63   | 62    | 5.00 | C    |             |

### Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

| Code     | Module                            | SSWL | USSWL | ECTS | Type | Pre-request |
|----------|-----------------------------------|------|-------|------|------|-------------|
| UOM1011  | ARABIC LANGUAGE1                  | 32   | 18    | 2.00 | B    |             |
| BSS1050  | BIOSAFETY and SECURITY            | 47   | 28    | 3.00 | S    |             |
| AGS1060  | AGRICULTURAL STATISTICS           | 78   | 47    | 5.00 | C    |             |
| BIO1070  | BIODIVERSITY                      | 63   | 62    | 5.00 | C    |             |
| AGI1080  | AGRICULTURAL INFORMATICS          | 63   | 62    | 5.00 | C    |             |
| SUD1090  | SUSTANIBLE DEVELOPMENT            | 62   | 63    | 5.00 | C    |             |
| AMT1100S | AGRICULTURAL MARKETING TECHNIQUES | 32   | 93    | 5.00 | C    |             |

### Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

| Code     | Module                                | SSWL | USSWL | ECTS | Type | Pre-request      |
|----------|---------------------------------------|------|-------|------|------|------------------|
| UOM1012  | ARABIC LANGUAGE2                      | 32   | 18    | 2.00 | B    | ARABIC LANGUAGE1 |
| UOM2050  | The CRIMES of the BATH REGIME in IRAQ | 32   | 18    | 2.00 | B    |                  |
| IPM2110  | INTEGRATED PEST MANAGEMENT            | 63   | 62    | 5.00 | C    |                  |
| FIT 3530 | FISH TECHNOLOGY                       | 63   | 62    | 5.00 | C    |                  |
| DAE2160  | DESIGN AND ANALYSIS of EXPERIMENTS    | 63   | 62    | 5.00 | C    |                  |
| APT2140  | AGRICULTURAL TECHNOLOGIES PRODUCTION  | 63   | 62    | 5.00 | C    |                  |

|         |                                                    |    |    |      |   |  |
|---------|----------------------------------------------------|----|----|------|---|--|
| FTP2150 | FOOD TECHNOLOGIES and HEALTH AGRICULTURAL PRODUCTS | 63 | 62 | 5.00 | C |  |
|---------|----------------------------------------------------|----|----|------|---|--|

**Semester 4 | 30 ECTS | 1 ECTS = 25 hrs**

| Code    | Module                                           | SSWL | USSWL | ECTS | Type | Pre-request       |
|---------|--------------------------------------------------|------|-------|------|------|-------------------|
| UOM2022 | ENGLISH LANGUAGE2                                | 32   | 18    | 2.00 | B    | ENGLISH LANGUAGE1 |
| UOM2032 | COMPUTER SKILLS2                                 | 47   | 28    | 3.00 | B    | COMPUTER SKILLS1  |
| APT2130 | AGRICULTURAL PRODUCTION MECHANIZATION TECHNIQUES | 63   | 62    | 5.00 | C    |                   |
| ANG3210 | ANIMAL GENETIC                                   | 48   | 2     | 2.00 | C    |                   |
| BEI2180 | BENEFICAL INSECTS                                | 63   | 62    | 5.00 | C    |                   |
| BIA2200 | BIOCHEMICAL ANALYSIS                             | 63   | 62    | 5.00 | C    |                   |
| AWE2210 | AGRICULTURAL WASTE TREATMENT ENGINEERING         | 63   | 62    | 5.00 | C    |                   |

**Semester 5 | 30 ECTS | 1 ECTS = 25 hrs**

| Code    | Module                                         | SSWL | USSWL | ECTS | Type | Pre-request |
|---------|------------------------------------------------|------|-------|------|------|-------------|
| DPF2170 | DESIGN and PLANNING of AGRICULTURAL FACILITIES | 63   | 62    | 5.00 | C    |             |
| ANP3220 | ANIMAL PHYSIOLOGY                              | 63   | 12    | 3.00 | B    |             |
| FAH3500 | FARM ANIMALS DISEASES and HYGEINE              | 63   | 62    | 5.00 | C    |             |
| ANN3510 | ANIMAL NUTRITION                               | 63   | 62    | 5.00 | C    |             |
| ANB3520 | ANIMAL BIOTECHNOLOGY                           | 63   | 62    | 5.00 | C    |             |
| AEM2120 | AGRICULTURAL ENGINEERING PROJECT MANAGEMENT    | 78   | 72    | 6.00 | C    | AEM2120     |
| AB 3540 | ANIMAL BREEDING TECHNIQUES                     | 63   | 62    | 5.00 | C    |             |

**Semester 6 | 30 ECTS | 1 ECTS = 25 hrs**

| Code    | Module                                                | SSWL | USSWL | ECTS | Type | Pre-request |
|---------|-------------------------------------------------------|------|-------|------|------|-------------|
| AQE3550 | AQUACULTURE ENGINEERING                               | 48   | 52    | 4.00 | C    |             |
| PB3560  | POULTRY BREEDING TECHNIQUES                           | 63   | 62    | 5.00 | C    |             |
| RTI3570 | REPRODUCTIVE TECHNOLOGIES and ARTIFICIAL INSEMINATION | 63   | 62    | 5.00 | C    |             |
| PMT3580 | POULTRY MANAGEMENT TECHNOLOGY                         | 63   | 62    | 5.00 | C    |             |
| PON3590 | POULTRY NUTRITION                                     | 63   | 62    | 5.00 | C    |             |

|         |                               |    |    |      |   |  |
|---------|-------------------------------|----|----|------|---|--|
| ANM3600 | ANIMAL MANAGEMENT TECCHNOLOGY | 63 | 62 | 5.00 | C |  |
| SEM3260 | SEMINAR                       | 17 | 8  | 1.00 | C |  |

#### Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

| Code    | Module                            | SSWL | USSWL | ECTS | Type | Pre-request |
|---------|-----------------------------------|------|-------|------|------|-------------|
| APM4330 | ANIMAL PRODUCTION MECHANIZATION   | 63   | 12    | 3.00 | C    |             |
| SGP4610 | SHEEP and GOAT PRODUCTION         | 63   | 62    | 5.00 | C    |             |
| AVP4620 | AVIAN PHYSIOLOGY                  | 63   | 62    | 5.00 | C    |             |
| FFT4630 | FEED and FEEDING TECHNOLOGY       | 63   | 62    | 5.00 | C    |             |
| ANB4640 | ANIMAL BEHAVIOR                   | 63   | 62    | 5.00 | C    |             |
| MPT4650 | MEAT PRODUCTION TECHNOLOGY        | 63   | 62    | 5.00 | C    |             |
| AGP4290 | AGRICULTURAL ENGINEERING PROJECT1 | 47   | 3     | 2.00 | C    |             |

#### Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

| Code    | Module                            | SSWL | USSWL | ECTS | Type | Pre-request |
|---------|-----------------------------------|------|-------|------|------|-------------|
| AMG4660 | ANIMAL MOLECULAR GENETIC          | 63   | 12    | 3.00 | C    |             |
| MES4670 | MEAT SCIENCE                      | 63   | 62    | 5.00 | C    |             |
| DAP4680 | DAIRY CATTLE PRODUCTION           | 63   | 62    | 5.00 | C    |             |
| WP4690  | WOOL PRODUCTION TECHNOLOGY        | 63   | 62    | 5.00 | C    |             |
| PP4700  | POULTRY PRODUCTS TECHNOLOGY       | 63   | 62    | 5.00 | C    |             |
| SAP4710 | SUSTAINABLE ANIMAL PRODUCTION     | 63   | 62    | 5.00 | C    |             |
| AEP4292 | AGRICULTURAL ENGINEERING PROJECT2 | 47   | 3     | 2.00 | C    |             |

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