



Jordan University of Science and Technology
Faculty of Agriculture
Animal Production Department

AP206 Principles Of Animal Science

Summer Semester 2022-2023

Course Catalog

3 Credit Hours. The aims of this course are to introduce students to principles of farm animal's management including animal breeding, physiology, nutrition, reproduction, selection, and animal care and handling. To know basic terminology common in animal science.

Text Book

| | |
|--------------------------|------------------------------|
| Title | Scientific Farm Animals |
| Author(s) | R. E. Taylor and T. G. Field |
| Edition | 8th Edition |
| Short Name | Scientific Farm Animals |
| Other Information | |

Instructor

| | |
|------------------------|----------------------------|
| Name | Prof. Kamel Mahmoud |
| Office Location | M1L3 |
| Office Hours | |
| Email | kmahmoud@just.edu.jo |

Class Schedule & Room

Section 1:
Lecture Time: Mon, Wed : 11:30 - 13:00
Room: E2010

| Prerequisites | | |
|---------------|--------------------------|----------------------|
| Line Number | Course Name | Prerequisite Type |
| 961030 | BT103 General Biology | Prerequisite / Study |
| 821033 | HSS103BT General Biology | Prerequisite / Study |

| Tentative List of Topics Covered | | |
|----------------------------------|--|---|
| Weeks | Topic | References |
| Week 1 | Introduction to the course Terminology | handout From Scientific Farm Animals |
| Week 1 | Animal Contributions to Human Needs Animal Contributions to Human Needs | handout From Scientific Farm Animals |
| Week 2 | Red Meat Products | handout From Scientific Farm Animals |
| Week 2 | Milk and Milk Products | handout From Scientific Farm Animals |
| Week 3 | Reproduction | handout From Scientific Farm Animals |
| Weeks 4, 5 | Nutrients and Their Functions | handout From Scientific Farm Animals |
| Week 6 | Digestion and Absorption of Feed | Handout From Scientific Farm Animals |
| Week 7 | Lactation | handout From Scientific Farm Animals |
| Week 8 | Dairy Cattle Breeds and Breeding | Handout From Scientific Farm Animals |
| Weeks 9, 10 | Beef Cattle Breeds and Breeding | Handout From Scientific Farm Animals |
| Weeks 10, 11, 12 | Sheep and Breeds and Breeding | Handout From Scientific Farm Animals |

| Mapping of Course Outcomes to Program Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|--|-------------------------------------|-------------------|
| Identify the importance of livestock to our live [1SLO 1] | 5% | |
| Identify the main feeds and their function in farm animals [1SLO 1, 1SLO 2] | 10% | |
| know the main features of the reproductive physiology of farm animals [1SLO 2, 1SLO 3] | 25% | |

| | | |
|--|-----|--|
| know the main features of dairy, beef, Sheep and goat cattle and also the main product of Broiler and laying hens management and production [1SLO 2, 1SLO 3] | 25% | |
| know the main practices that used for animal care and handling [1SLO 3, 1SLO 4] | 15% | |
| know the main features of breeding and selection purposes [1SLO 2, 1SLO 3, 1SLO 4] | 10% | |
| understand the terminologies used in livestock science [1SLO 1, 1SLO 2, 1SLO 3, 1SLO 4] | 10% | |

| Relationship to Program Student Outcomes (Out of 100%) | | | |
|--|-------|-------|-------|
| SLO 1 | SLO 2 | SLO 3 | SLO 4 |
| 12.5 | 35.83 | 38.33 | 13.33 |

| Evaluation | |
|-----------------|--------|
| Assessment Tool | Weight |
| Midterm Exam | 30% |
| Final Exam | 50% |
| Quizzes | 15% |
| Project | 5% |

| Policy | |
|---------------|--|
| Exams | All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the department chair |
| Prohibited | Prohibited; and in case of cheating the student will be subject to punishment according to the university regulations |
| Attendance | Up to 20% in accordance with university policy |
| Participation | Participation is highly encouraged |

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