



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

AP234 Animal Behavior And Welfare

Second Semester 2020-2021

**Course Catalog**

2 Credit Hours. Provide a perspective on livestock management, transport and handling raised in close association with people. Aspects of animal handling are covered, such as handling for veterinary and husbandry procedures, stress physiology, restraint methods, transport, corral and stockyard design, handling at slaughter plants and welfare. Principles of animal behavior are covered for cattle, sheep, goats and poultry. Perception of the environment by farm animals and their physiological and productive responses. Behavioral and endocrine modulations resulting from animal-human interaction. Basic animal welfare strategies to minimize stress on productive states of food animals within the typically used animal production systems.

**Text Book**

<b>Title</b>	Livestock Handling and Transport
<b>Author(s)</b>	T. Grandin
<b>Edition</b>	3rd Edition
<b>Short Name</b>	Reference #1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Reference #2	Environmental Physiology of Livestock	R. J. Collier and J. L. Collier	1st Edition	

**Instructor**

Name	Prof. Hosam Al-Tamimi
Office Location	-
Office Hours	
Email	hjaltamimi@just.edu.jo

**Class Schedule & Room**

Section 1:

Lecture Time: Mon, Wed : 11:30 - 12:30

Room: منصة الكترونية

**Tentative List of Topics Covered**

<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Introduction: Effect of Customer Requirements, International Standards and Marketing Structure on the Handling and Transport of Livestock and Poultry	From <b>Reference #1</b>
Week 2	General Principles of Stress and Well-being	From <b>Reference #1</b> , From <b>Reference #2</b>
Week 3	Causes of Poor Welfare and Welfare Assessment during Handling and Transport	From <b>Reference #1</b>
Week 4	Behavioural Principles of Handling Cattle and Other Grazing Animals under Extensive Conditions	From <b>Reference #1</b> , From <b>Reference #2</b>
Week 5	Low-stress Restraint, Handling and Weaning of Cattle	From <b>Reference #1</b>
Week 6	Handling Cattle Raised in Close Association with People	From <b>Reference #1</b> , From <b>Reference #2</b>
Week 7	Handling Facilities and Restraint of Range Cattle	From <b>Reference #1</b> , From <b>Reference #2</b>
Week 8	Dairy Cattle Behaviour, Facilities, Handling, Transport, Automation and Well-being	From <b>Reference #1</b>

Week 9	Cattle Transport	From Reference #1, From Reference #2
Week 10	Behavioural Principles of Sheep and Goats Handling	From Reference #1, From Reference #2
Week 11	Design of Sheep Yards and Shearing Sheds, and Sheep Transport	From Reference #1, From Reference #2
Week 12	Poultry Handling and Transport	From Reference #1, From Reference #2
Week 13	Stress Physiology of Animals During Transport	From Reference #1
Weeks 14, 15	Handling and Welfare of Livestock in Slaughter Plants	From Reference #1, From Reference #2
Week 16	Biosecurity for Animal Health and Food Safety	From Reference #1, From Reference #2

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recognize various basic farm animal behaviors [1SLO 1, 1SLO 2, 1SLO 4]	20%	MidTerm Exam, Final exam

Outline basic equipment and tools commonly used in livestock and poultry farming [1SLO 2, 1SLO 3]	40%	MidTerm Exam, Final exam
Employ necessary care (in terms of housing, equipment and management) to different farm animals at different production stages/ages. [1SLO 1, 1SLO 3, 1SLO 4]	40%	MidTerm Exam, Final exam

Relationship to Program Student Outcomes (Out of 100%)			
SLO 1	SLO 2	SLO 3	SLO 4
20	26.67	33.33	20

Evaluation	
Assessment Tool	Weight
MidTerm Exam	50%
Final exam	50%

Policy	
Teaching philosophy, course guidelines, and student commitment	Students will be expected to present their comprehension concerns of the course immediately, and to fully appreciate the importance of participating in the classroom discussions. Timed examinations and several unannounced quizzes will be employed as means of student evaluation and survey of knowledge. Attendance is mandatory to fulfill course requirements, with consideration of accurate timing. Exceeding the limit of absences within the class room on time can result in failing the course. The Department of Animal Production places a high degree of trust in the level of student maturity and intellectual curiosity and therefore counts on its student in carrying this responsibility.

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