

## Jordan University of Science and Technology Faculty of Veterinary Medicine Veterinary Medicine And Surgery Department

VM362 Meat Hygeine And Inspection	VM362	Meat	Hygeine	And	Inspection
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First Semester 2021-2022

## **Course Catalog**

2 Credit Hours. This course will provide participants with knowledge and comprehension on: slaughtering, stunning an carcass handling and judgement at the abattoir, biochemistry of postmortem muscle characteristics of beef, sheep, goat, horse, camel and ostrich meat, meat spoilage and preservation, examination of meat adulteration and species determination, microbial and chemical meat hazards, meat fermentation and processing, new technologies to enhance the safety of meat and meat products, meat packaging, HACCP. In addition, fish and seafood safety is covered.

	Text Book
Title	Handbook of meat processing
Author(s)	Fidel Toldr?
Edition	1st Edition
Short Name	Ref#1
Other Information	

## **Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	HACCP and ISO 22000: Application to Foods of Animal	loannis S. Arvanitoyannis	1st Edition	

Instructor				
Name	Prof. Mohammad Obaidat			
Office Location	C1-L1 and C1-L2			

Office Hours	Sun: 11:30 - 12:30 Sun: 12:30 - 13:30 Mon: 11:30 - 12:30 Tue: 10:30 - 11:30 Wed: 11:30 - 12:30 Wed: 14:00 - 15:00
Email	mmobaidat@just.edu.jo

## Class Schedule & Room

Section 1:

Lecture Time: Mon: 13:00 - 14:00

قاعة ابن رشد :Room

Section 2:

Lecture Time: Wed: 13:00 - 14:00

قاعة ابن رشد :Room

Section 3:

Lecture Time: Mon: 13:00 - 14:00

Room: U

Section 4:

Lecture Time: Wed: 13:00 - 14:00

Room: U

Prerequisites						
Line Number	Course Name	Prerequisite Type				
663300	VM330 Applied Veterinary Sciences And Diagnostic Laboratories	Prerequisite / Study				
663531	VM353 Systemic Veterinary Pathology	Prerequisite / Study				

Tentative List of Topics Covered					
Weeks	Торіс	References			
Weeks 1,	Preharvest Meat Hygiene: 1. Automation and meat quality 2. E. coli O157: H7 3. Slaughter house interventions	From Ref#			
Week 3	Slaughtering and Animal Welfare: 4. Stunning and animal welfare 5. Halal authenticity	From Ref#			
Weeks 4,	Fresh Meat: 1. Biochemistry of postmortem muscle 2. Meat Color 3. Meat spoilage 4. Camel, Sheep and Goat meat	From Ref#			
Week 6	Meat Preservation Technologies	From Ref#			
Weeks 7,	Microbial Meat Safety: 1. Microbiological food safety issues 2. Danish initiatives	From Ref#			
Week 9	Chemical Meat Safety: 1. Mycotoxins 2. Veterinary drug residues 3. Growth promoter				

Weeks 10, 11	Meat Processing: 1. Meat fermentation 2. Meat curing and smoking	From Ref#
Week 12	Intervention Technologies in Meat Safety:	From Ref#
Week 13	Meat Adulteration: 1. freezing and thawing 2. Meat adulteration 3. Species determination	From Ref#
Week 14	Meat Packaging: 1. MAP 2. Antimicrobial packaging	From Ref#
Week 15	HACCP: 1. HACCP Principles 2. HACCP Plan for Beef slaughterhouses	
Week 16	Fish Safety	

Relationship to Program Student Outcomes (Out of 100%)									
1	2	3	4	5	6	7	8	9	10

	Policy						
Exams	All exams are closed book and notes. The final exam will include 20% of the questions from the first and second exam material and 80% from the final material. Incomplete exams need approval from the Dean/Department Head. The instructor can accept valid excuses from the students.						
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the University regulations as outlined in the students? university handbook.						
Attendance	According to the University policy. Only 20% allowed which included excused and un-excused absences. (7 lectures absence will dismiss you from the class)- Attendance will be taken and entered online at end of each lecture						
Withdraw	According to the University policy						
Participation	Participation is encouraged						

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