



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

VM330 Applied Veterinary Sciences And Diagnostic Laboratories

First Semester 2021-2022

Course Catalog

4 Credit Hours. In this course, students will learn and practice the veterinary samples collections, preparing bacterial films, bacterial staining; Grams stains, capsule staining procedures, spore stain methods and Albert stain . Students will learn different culturing methods; spread agar plate methods, streaking method., stabbing method. spread methods. Staining methods; Grams stains, spore staining methods, capsule staining and Albert stain method. Student should be able to practice bacterial inoculation methods and the objective is to reach bacterial identification following a bacterial identification scheme.

Text Book

Title	Instructor lectures
Author(s)	Instructure Prof. Yaser tarazi
Edition	1st Edition
Short Name	E. learning
Other Information	All lectures and figures will be uploaded to the on line system

Instructor

Name	Walla Alsmadi
Office Location	-
Office Hours	
Email	wmalsmadi@just.edu.jo

Instructor

Name	Mrs. Ola Ababneh
Office Location	-
Office Hours	
Email	oaababneh0@just.edu.jo

Instructor	
Name	Dr. Juhaina Ababneh
Office Location	-
Office Hours	
Email	jsababneh@just.edu.jo

Class Schedule & Room
<p>Section 1: Lecture Time: Sun, Tue, Thu : 08:30 - 11:30 Room: LAB</p> <p>Section 2: Lecture Time: Sun, Tue, Thu : 08:30 - 11:30 Room: LAB</p> <p>Section 3: Lecture Time: Sun, Tue, Thu : 08:30 - 11:30 Room: LAB</p> <p>Section 4: Lecture Time: Sun, Tue, Thu : 11:30 - 14:30 Room: LAB</p> <p>Section 5: Lecture Time: Sun, Tue, Thu : 11:30 - 14:30 Room: LAB</p> <p>Section 6: Lecture Time: Sun, Tue, Thu : 11:30 - 14:30 Room: LAB</p> <p>Section 7: Lecture Time: Sun, Tue, Thu : 14:30 - 17:30 Room: LAB</p> <p>Section 8: Lecture Time: Sun, Tue, Thu : 14:30 - 17:30 Room: LAB</p> <p>Section 9: Lecture Time: Sun, Tue, Thu : 14:30 - 17:30 Room: LAB</p>

Prerequisites		
Line Number	Course Name	Prerequisite Type
662261	VM226 Serology And Virology Laboratory	Prerequisite / Study
662381	VM238 Veterinary Entomology And Parasitology	Prerequisite / Study
662351	VM235 Veterinary Bacteriology And Mycology Laboratory	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	biosafety in microbiology laboratories	
Week 2	Collection of Veterinary specimens	
Week 3	Preparation of bacterial film and simple staining techniques	
Week 4	differential staining; Grams stain, spore stain, capsule stains and Albert staining	
Week 5	Culturing methods; Spread plate methods, streaking methods, stabbing method and pour plate method	
Week 6	Biochemical reaction tests for Gram positive bacteria	
Week 7	Biochemical reaction tests for Gram negative bacteria	
Week 8	Staphylococcus aureus and Streptococcus species identification	
Week 9	Corynebacterium pyogenes and Bacillus species	
Week 10	Escherichia coli and Klebsiella species identification	
Week 11	Proteus and Pseudomonas aeruginosa identifications	
Week 12	Identification scheme for Grams positive and Grams negative bacteria	

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

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