



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Allied Medical Sciences Department**

LM325 Clinical Microbiology (1) Practical - JNQF Level: 7

First Semester 2023-2024

**Course Catalog**

1 Credit Hours. This laboratory course is designed to teach clinical microbiology skills to medical laboratory students, involving the characterization and identification of pathogenic bacteria. Laboratory exercises are explained in detail in pre-lab sessions and laboratory handouts. Step-by-step instructions are supplied with each exercise along with pertinent background information so that the procedures, for the most part, are self-explanatory. The laboratory exercises will provide the student with the most comprehensive experiences possible

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Bailey and Scott's Diagnostic Microbiology;
<b>Author(s)</b>	Patricia M. Tille
<b>Edition</b>	15th Edition
<b>Short Name</b>	Ref.1
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Mr. Ra'Ad Obeidat</b>
<b>Office Location</b>	-
<b>Office Hours</b>	
<b>Email</b>	robiedat@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Mon, Tue, Wed : 10:30 - 11:30  
Room: LAB M 6B

Section 2:  
Lecture Time: Mon, Tue, Wed : 11:30 - 12:30  
Room: LAB M 6B

Section 3:  
Lecture Time: Mon, Tue, Wed : 12:30 - 13:30  
Room: LAB M 6B

Section 4:  
Lecture Time: Mon, Tue, Wed : 13:30 - 14:30  
Room: LAB M 6B

Section 5:  
Lecture Time: Mon, Tue, Wed : 14:30 - 15:30  
Room: LAB M 6B

### Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Laboratory safety procedures and policies	From <b>Ref.1</b>
Week 2	Staining Techniques and Microscopic Procedures	From <b>Ref.1</b>
Week 3	Media preparation and culture techniques, isolation procedures, purification techniques, and identification Sterilization	From <b>Ref.1</b>
Week 4	Gram positive cocci- Staphylococcus and Micrococcus	From <b>Ref.1</b>
Week 5	Gram-positive cocci - Streptococcus	From <b>Ref.1</b>
Week 6	Gram-Positive Bacilli-Spore Formers	From <b>Ref.1</b>
Week 7	Gram-Positive Bacilli Non-Spore Formers	From <b>Ref.1</b>
Week 8	Midterm Exam	From <b>Ref.1</b>
Week 9	Gram -Negative Cocci- Neisseria	From <b>Ref.1</b>
Week 10	Enteric Gram-Negative Bacilli (lactose fermenter)	From <b>Ref.1</b>
Week 11	Enteric Gram-Negative Bacilli (non-lactose fermenter)	From <b>Ref.1</b>

Week 12	Non-Fermenting Gram-Negative Bacilli	From Ref.1
Week 13	Gram-Negative Coccobacilli, Haemophilus, Bordetella	From Ref.1
Week 14	Final Exam	From Ref.1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Students will learn key diagnostic information of the common bacterial pathogens of humans. [1SLO1] [1L7K1]	40%	
Students will learn the techniques and methods utilized in the bacteriology laboratory for processing clinical samples for diagnosis of bacterial infections [1SLO2] [1L7S1, 1L7S2]	40%	
Students will be able to implement quality assurance and quality control standards while working safely in the bacteriology laboratory. [1SLO3, 1SLO4] [1L7C1]	20%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
40	40	10	10								

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7C1
40	20	20	20

Evaluation	
Assessment Tool	Weight
Midterm exam	30%
reports	10%
Quizzes	10%
Final exam	50%

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