Jordan University of Science and Technology

Faculty of Medicine

Doctor Of Medicine (Md) Department

MED265 General Microbiology (Lab) - JNQF Level: 7

First Semester 2023-2024

Course Catalog
0 Credit Hours. This course is integrated with MED265 General Microbiology course, both in teaching and in exams. Please refer to MED265 course for further details. This course provides medical students with vital microbiology information that will enable them to carry out their duties in an informed, safe, and efficient manner, and protect themselves and their patients from infectious diseases. It is appropriate as an introductory microbiology course, as it contains all of the concepts and topics needed by those students to use as a base for the microbiology of the modular systems that are going to be studied after. This course will cover a typical undergraduate microbiology topics of special importance to students of the healthcare professions include those dealing with disinfection and sterilization, antibiotics and other antimicrobial agents, epidemiology and public health, healthcare-associated infections and infection control, how infectious diseases are diagnosed , how microbes cause disease, how our bodies protect us from pathogens and infectious diseases , and the major viral, bacterial, fungal, and parasitic diseases of humans.
Teaching Method: Electronic Course

Text Book	
Title	Burton's Microbiology for the Health Sciences (published by Lippincott Williams & Wilkins)
Author(s)	Paul G. Engelkirk
Edition	11th Edition
Short Name	1
Other Information	

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Class Schedule & Room

Section 1:
Lecture Time: Thu : 17:00 - 19:00
Room: متزامن الحضور منصة الكترونية

Section 2:
Lecture Time: Wed : 17:00 - 19:00
Room: متزامن الحضور منصة الكترونية

Section 3:
Lecture Time: Mon : 17:00 - 19:00
Room: متزامن الحضور منصة الكترونية

Section 4:
Lecture Time: Tue : 17:00 - 19:00
Room: متزامن الحضور منصة الكترونية

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Lab safety	From **1**
Week 2	Microscopy	From **1**
Weeks 3, 4	Bacterial staining (part 1)	From **1**
Week 4	Bacterial staining (part 2)	From **1**
Weeks 5, 6	Bacterial culture (part 1)	From **1**
Weeks 6, 7	Bacterial culture (part 2)	From **1**

Weeks 7, 8	Bacterial identification (general principles)	From **1**
Weeks 9, 10	Bacterial identification (Gram-negative bacilli)	From **1**
Weeks 10, 11	Bacterial identification (Gram-positive cocci)	From **1**
Week 12	Bacterial antimicrobial susceptibility testing	From **1**

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Student should be able to explain the basic aspects of microbial diversity, structure and function Student should understand basic treatment and prevention of infectious diseases in human [1PLO1, 1PLO9] [1L7K1]	30%	
Student should understand the principles of epidemiology with emphasis on healthcare epidemiology Student should comprehend the pathogenesis and diagnosis of infectious diseases [1PLO1, 1PLO9] [1L7S1, 1L7S2, 1L7C1]	30%	
Student should be able to explain the basics of immune system function in humans Student should be able to list the major human infectious diseases from different microbial classes (i.e. viruses, bacteria, fungi, parasites) with their characteristic features Student should understand the general microbiology lab practices pertaining to microbial identification and sensitivity testing [1PLO1, 1PLO9] [1L7K1, 1L7S1, 1L7C4]	40%	

Relationship to Program Student Outcomes (Out of 100%)													
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
50								50					

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7C1	L7C4
43.33	23.33	10	10	13.33

Policy	
Attendance	This lab course is merged with the MED265. The students are expected to attend all classes Absence in excess of 20% is defined as unsatisfactory progress and will be reported to the head of the department.
Assessment of achievements	The 20% weight for the lab. will be part of the MED 265 course assessment among 1st and 2nd Exams and a final exam:

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