

# Jordan University of Science and Technology Faculty of Pharmacy Pharmacy Department

PHAR453	Pharmaceutical	Microbiology
PHAR400	Pharmaceulical	MICTODIOIOGV

# First Semester 2021-2022

# **Course Catalog**

3 Credit Hours. mechanism of action and biological properties of antibiotics and chemical compounds that are used clinically to treat different types of microbial diseases, development of microorganism's resistance, and ,methods for preventing or reducing such resistance, method of sterilizations.

Text Book					
Title	Hugo and Russell's Pharmaceutical Microbiology				
Author(s)	Stephen P. Denyer B ,Norman Hodges , Sean P. Gorman , Brendan F. Gilmore				
Edition	9th Edition				
Short Name	Ref#1				
Other Information					

### **Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Burton's Microbiology for the Health Sciences	Paul G. Engelkirk	11th Edition	

	Instructor			
Name	Dr. Nid"A Alshraiedeh			
Office Location	-			
Office Hours	Sun: 10:00 - 12:15 Mon: 10:00 - 11:00 Tue: 10:00 - 11:00 Wed: 08:00 - 09:00 Wed: 14:30 - 15:30			
Email	nhalshraiedeh@just.edu.jo			

# Class Schedule & Room

Section 1:

Lecture Time: Sun: 08:30 - 10:00

Room: P1101

Section 2:

Lecture Time: Mon: 11:30 - 13:00

Room: SOUTH HALL

Section 3:

Lecture Time: Mon: 13:00 - 14:30

Room: P1103

Section 4:

Lecture Time: Tue: 08:30 - 10:00

Room: P1101

Section 5:

Lecture Time: Wed: 11:30 - 13:00

Room: SOUTH HALL

Section 6:

Lecture Time: Wed: 13:00 - 14:30

Room: P1103

	Tentative List of Topics Covered					
Weeks	Topic	References				
Weeks 1, 2	introduction to microbiology	From Ref #1				
Weeks 3, 4	Principles of microbial pathogenicity and epidemiology	From <b>Ref #1</b> , From <b>Ref # 2</b>				
Weeks 2, 3	pathogenesis of infectious disease	From Ref#2				
Weeks 4, 5	Epidemiology and Public Health	From Ref#2				
Weeks 5, 6	Fungi and anti fungal agents	From Ref #1				
Weeks 6, 7	Bacterial cell wall inhibitors	From Ref #1				
Weeks 7, 8	Bacterial protein synthesis inhibitors	From Ref #1				
Weeks 8, 9	Bacterial nucleic acid inhibitors and membrane active agents	From Ref #1				
Weeks 9, 10	Chemical disinfectants, antiseptics and preservatives	From Ref #1				
Weeks 10, 11	Principles & practice of sterilization	From Ref #1				
Weeks 11, 12	Major viral, bacterial and fungal disease	From Ref#2				
Weeks 13, 14	Anti parasitic agents	From Ref#1				
Weeks 14, 15	Antiviral agents	From Ref #1				

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe in details the morphology, characteristics of microorganisms [10SO1.1]	10%	

Explain he mode of action of antibiotics and other antimicrobial agents. [20SO1.1, 5SO3.1]	25%	
Understanding the principle and types of antiseptics, disinfectants and preservative used for control and prevention of contamination. [8SO1.1, 2SO3.1]	10%	
Understanding the principle and types of sterilization method and their applicability to control and prevention of contamination. [10SO1.1]	10%	
Awareness about challenge imposed by bacterial resistance to antimicrobial agents as well as mechanism of development of resistance. [16SO1.1, 4SO3.1]	20%	
Awareness about pathogenesis, causes and negative health and economic impact of infectious disease and their transmission [20SO1.1, 5SO3.1]	25%	

	Relationship to Program Student Outcomes (Out of 100%)													
SO1.1	SO2.1	SO3.2	SO3.3	SO2.2	SO2.3	SO2.4	SO3.1	SO3.4	SO3.5	SO3.6	SO4.1	SO4.2	SO4.3	SO4.4
84							16							

Evaluation					
Assessment Tool Weight					
Midterm exam	40%				
Assignment and quizes	10%				
Final exam	50%				

	Policy
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the dean of the faculty.
Cheating	Prohibited; and in case of cheating, the student will be subject to punishment according to the Standard JUST policy  المادة 7: إذا ضُبط الطالب أثناء الامتحان أو الاختبار مثلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة  أ- اعتباره راسباً في ذلك الامتحان أو الاختبار  ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل  جخصله من الجامعة لمدة فصل دراسي واحد، وهو الفصل التالي للفصل الذي ضبط فيه
Attendance	According to JUST policy: The faculty member to assign ZERO grade (35) if a student misses 10% of the classes that are not excused.  If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Participation	Good participation is expected
Withdrawal	Deadline for undergraduate students to request a formal postponment of study or to withdraw from the university is 14/JAN/2022
	Last day of courses withdrawal (without reimbursement of tuition fees) is 14/JAN/2022

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