



مركز الاعتماد
وإضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER



The University of Jordan

Accreditation & Quality Assurance Center

Course Syllabus

Course Name:

Introduction to Microbiology

1	Course title	Introduction to Microbiology
2	Course number	504204
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	
4	Prerequisites/corequisites	None
5	Program title	Doctor of Medicine
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Faculty of Medicine
9	Department	Department of Pathology-Microbiology & Forensic Medicine.
10	Level of course	2 nd Year
11	Year of study and semester (s)	1 st Semester 2 nd Year
12	Final Qualification	
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Date of production/revision	26/10/2016

16. Course Coordinator:

Dr. Asem A. Shehabi
Office number: 23448
office hours

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesda y	Thursda y
	11-12			12-1	

email: ashehabi@ju.edu.jo

17. Other instructors:

Dr.HassanAbu Al-Ragheb
Dr. Ashaf Khasaweneh

18. Course Description:

This course is intended to introduce basic and important characteristics of normal body flora, microorganisms causing human infection as well as how to diagnose and control their diseases.

19. Course aims and outcomes:**A- Aims:**

1. Mention types of microorganisms, their classification and structure.
2. Describe the pathogenesis and manifestations of diseases caused by microorganisms.
3. Describe methods of diagnosis of infections including; specimen selection, handling and processing.
4. Knowing major classes of antimicrobial agents, their mechanisms of action and the commonly used individual antimicrobials.

B- Intended Learning Outcomes (ILOs): Successful completion of the course should lead to the following outcomes:

A. Knowledge and Understanding: Student is expected to understand

A1- The basic cell structures of microorganism and their occurrence & role in human life

A2- The process of causing, prevention and treatment of infections with antimicrobial drugs

B. Intellectual Analytical and Cognitive Skills: Student is expected to:

B1- Recognize the differences between microorganisms and their clinical diseases

B2- Understand principles and methods of diagnosing microbial diseases

C. Subject- Specific Skills: Students is expected to:

C1- To know all important names of human commensal and pathogenic microorganisms.

C2- To know names of specific microbial diseases

D. Transferable Key Skills: Students is expected to

D1- To be able to transfer knowledge to health professional colleagues.

D2- To be able to transfer instructions to patients

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Bacteriology: 1- Part: Cell Structure and classification of bacteria- Growth and death of bacteria, Bacterial genetics- Control of Microorganisms- Sterilization and disinfection, Antimicrobial Agents	5 weeks 10 lectures	Prof. Dr. Asem Shehabi			

<p>2- Part:-Gram- Positive Bacteria Cocci (Staphylococci , Streptococci, Enterococia), Bacilli (Bacillus, Corynebacteria), Gram – Negative Bacteria, Cocci (Neisseria), Bacilli – Enterobacteriaceae, Bacilli, Nonfermenting Organisms</p> <p>3- Part:- Spore forming anaerobes bacilli , Anaerobic Gram-negative bacilli , Mycobacteri, Spirochetes, Chlamydia, Mycoplasma , Legionella, Rickettsiae</p> <p>Fungi:</p> <ul style="list-style-type: none"> - General Characteristics - Classification - Agents of superficial Infections - Agents of subcutaneous Infections - Agents of systemic Infections - Opportunistic fungi 	<p>2 Weeks 4 lectures</p> <p>2 week 4 Lectures</p> <p>2 week 4 Lectures</p>				
<p>Homework:- Assign your team and project, -Write proposal about your project</p>	<p>Due date:5th week</p>				
<p>Parasitology: Introduction and Classification Protozoa: Ameba, Flagellates Sporozoa, Ciliates Helminthes: general features and life cycles. Nematodes-intestinal, Tissue, Cestodes, Trematodes Arthropods</p>	<p>2 Week 4 Lectures</p> <p>1 Week 2 lectures</p>	<p>Dr.Hassan Abu Al-Ragheb</p>			

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation	Point %	Date
Midterm Exam	40	Will be organized by Examination Faculty Office, mostly after 10-10 weeks from beginning the semester
Project	--	
Assignments	--	
Homework	--	
Final Exam	60	Will be announced by Examination Faculty Office

23. Course Policies:

A- Attendance policies:

B- Absences from exams and handing in assignments on time:

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

0-39	F
45-49	D
50-54	D
54-69	D+
60-64	C
65-69	C
70-73	C+
74-76	B
77-80	B
81-84	B+
85-89	A
90-100	A

F- Available university services that support achievement in the course:

24. Required equipment:**25. References:****1-Medical Microbiology, 18th Edition**

Edited by David Green Wood & Others Publisher: Churchill Livingstone

2-Jawetz Medical Microbiology, 23rd Edition

Edited by Geo.F. Brooks & others Publisher: A Lange Medical Book

Additional References:

3- Medical Microbiology Teaching Websites

26. Additional information:

Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming, then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter, problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For final complaints, there will be a committee to review grading the final exam.

For more details on University regulations please visit:

<http://www.ju.edu.jo/rules/index.htm>

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: Prof.Abdelkader Battah Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: -----Signature: -----

Copy to:

Head of Department

Assistant Dean for Quality Assurance

Course File