

Course Plan

Number of students: 8

Semester: First

Year: 2025

Department: Medical Bacteriology

Major: Master's Degree in Medical Microbiology

Credit: 2

Course Title: Clinical Bacteriology I

Course Type: Theoretical

Day & Time: Saturday and Wednesdays, 10:00-11:30

Prerequisite: General Microbiology

Instructor: Dr. Milad Shahini

Email: [shahini.m@skums.ac.ir]

Office Address: Faculty of Medicine, Shahrekord University of Medical Sciences

Response Hours and Days: Saturdays to Wednesdays, 8:00–15:00

Main Objective:

This course aims to familiarize students with clinically important bacterial pathogens, their structure, pathogenesis, laboratory diagnosis, and clinical importance. The course emphasizes interactive learning through discussions and literature reviews.

Learning Outcomes:

- Recognize key characteristics and classification of major clinical bacteria.
- Explain the virulence mechanisms and associated diseases of bacterial pathogens.
- Apply knowledge of laboratory diagnostic approaches for bacterial infections.
- Interpret scientific literature and engage in evidence-based discussions.
- Differentiate between similar bacterial genera and species based on clinical and laboratory data.

References (Textbooks):

- "Medical Microbiology," by Murray, Rosenthal & Pfaller.
- "Jawetz Melnick & Adelberg's Medical Microbiology," by Carroll et al.
- Relevant peer-reviewed articles provided during the course.

Student Evaluation and Weight:

- Class Participation and Q&A: 4 marks
- Scientific Article Presentation: 4 marks
- Midterm Exam: 6 marks
- Final Exam: 6 marks
- Total Marks: 20

Students Responsibilities:

- Attend and actively participate in all sessions.
- Present one scientific article related to a bacterial group.
- Switch off mobile phones during classes and exams.
- Absence without valid justification will reduce the final grade.

Discipline and Educational Rules:

Regulations are in accordance with the Ministry of Health and Medical Education policies.

Course Schedule:

Session	Date	Topic	Instructor
1	[2025/04/05]	Staphylococcus	Dr. Milad Shahini
2	[2025/04/09]	Streptococcus (GAS, GBS)	Dr. Milad Shahini
3	[2025/04/12]	Pneumococcus - Enterococcus	Dr. Milad Shahini
4	[2025/04/16]	Neisseriaceae (Gonococcus, Meningococcus)	Dr. Milad Shahini
5	[2025/04/19]	Non-spore-forming Gram-positive Bacilli (Corynebacterium)	Dr. Milad Shahini
6	[2025/04/23]	Non-spore-forming Gram-positive Bacilli (Listeria, Erysipelothrix)	Dr. Milad Shahini
7	[2025/04/26]	Spore-forming Gram-positive Bacilli (Bacillus)	Dr. Milad Shahini

8	[2025/04/30]	Spore-forming Gram-positive Bacilli (Clostridium)	Dr. Milad Shahini
9	[2025/05/03]	Mycobacterium	Dr. Milad Shahini
10	[2025/06/07]	Nocardia, Actinomyces, Streptomyces	Dr. Milad Shahini
11	[2025/05/10]	Enterobacteriaceae I	Dr. Milad Shahini
12	[2025/05/14]	Enterobacteriaceae II	Dr. Milad Shahini
13	[2025/05/17]	Vibrionaceae, Campylobacter, Helicobacter	Dr. Milad Shahini
14	[2025/05/21]	Non-fermenting Gram-negative Bacilli	Dr. Milad Shahini
15	[2025/05/24]	Review Session	Dr. Milad Shahini
16	[2025/05/28]	Final Q&A and Course Wrap-up	Dr. Milad Shahini

Midterm Exam Date: [To be determined]

Final Exam Date: [To be determined]