

Course Plan

Number of students: 8

Semester: Second

Year: 2025

Department: Medical Bacteriology

Major: Master's Degree in Medical Microbiology

Credit: 2

Course Title: Clinical Bacteriology II

Course Type: Theoretical

Day & Time: Mondays and Wednesdays, 13:00–14:30

Prerequisite: Clinical Bacteriology I

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 provides an advanced overview of less common and fastidious bacterial pathogens and their roles in systemic infections. Emphasis is placed on diagnosis, pathogenesis, clinical presentations, and recent developments in microbial diseases.

Learning Outcomes:

- Identify and classify fastidious and atypical bacterial pathogens.
- Understand the pathogenesis and clinical manifestations of advanced bacterial infections.
- Gain knowledge of laboratory diagnostic approaches for systemic and organ-specific infections.
- Correlate microbial characteristics with disease patterns and treatment guidelines.
- Analyze complex clinical cases involving multi-organ bacterial infections.

References (Textbooks):

- "Medical Microbiology," by Murray, Rosenthal & Pfaller.
- "Jawetz Melnick & Adelberg's Medical Microbiology," by Carroll et al.

- Current reviews and case reports from clinical microbiology journals.

Student Evaluation and Weight:

- Attendance and Participation: 3 marks
- Scientific Case/Article Presentation: 3 marks
- Midterm Exam: 7 marks
- Final Exam: 7 marks
- Total Marks: 20

Students Responsibilities:

- Participate in all sessions and discussions actively.
- Prepare and present a scientific case or article as assigned.
- Respect laboratory biosafety rules if applied.
- Unexcused absences affect final grading.

Discipline and Educational Rules:

In accordance with the Ministry of Health and Medical Education and institutional regulations.

Course Schedule:

Session	Date	Topic	Instructor
1	[2025/04/07]	Bordetella, Francisella	Dr. Milad Shahini
2	[2025/04/09]	Brucella	Dr. Milad Shahini
3	[2025/04/14]	Yersinia and Pasteurella	Dr. Milad Shahini
4	[2025/04/16]	Legionella and Bartonella	Dr. Milad Shahini
5	[2025/04/21]	Mycobacterium tuberculosis and NTM I	Dr. Milad Shahini
6	[2025/04/23]	Mycobacterium tuberculosis and NTM II	Dr. Milad Shahini
7	[2025/04/28]	Actinomycetes: Actinomyces, Nocardia, Streptomyces	Dr. Milad Shahini

8	[2025/04/30]	Spirochetes I: Treponema, Borrelia, Leptospira, Spirillum, Cristispira	Dr. Milad Shahini
9	[2025/05/05]	Spirochetes II: Treponema, Borrelia, Leptospira, Spirillum, Cristispira	Dr. Milad Shahini
10	[2025/05/07]	Rickettsiae: Rickettsia, Coxiella, Ehrlichia, Orientia, Rochalimaea	Dr. Milad Shahini
11	[2025/05/12]	Chlamydia	Dr. Milad Shahini
12	[2025/05/14]	Mycoplasma and Ureaplasma	Dr. Milad Shahini
13	[2025/05/19]	Anaerobic Gram- negative bacilli	Dr. Milad Shahini
14	[2025/05/21]	Bacterial Vaginosis: Gardnerella vaginalis	Dr. Milad Shahini
15	[2025/05/26]	Bloodstream bacterial infections	Dr. Milad Shahini
16	[2025/05/28]	Bacterial infections of the respiratory, genitourinary, and skeletal systems	Dr. Milad Shahini

Midterm Exam Date: [To be determined]

Final Exam Date: [To be determined]