

American University of Beirut
Faculty of Health Sciences
MEDICAL LABORATORY SCIENCES PROGRAM
Clinical Bacteriology
LABM 240 (4 cr.)
Spring 2019-2020

Course Coordinator (FHS): **Nada M. Melhem, PhD**
Faculty of Health Sciences
317 Van Dyck

Instructor : **Mirna Bou Hamdan, MS**
Faculty of Health Sciences
319 Van Dyck

Director/ Clinical **George F. Araj, PhD, FAAM**
Bacteriology Training: Department of Pathology and Laboratory Medicine
AUB-Medical Center (303C, 3rd floor, AUBMC)

Class Time: MW 2:00 pm-3:15 pm (336 Van Dyck)

Office Hours : By appointment via email

E-mail : melhemn@aub.edu.lb

Course Objectives:

Students will be introduced to diagnostic procedures used in bacteriology by organ system. The theoretical part of the course runs simultaneously **over a six-week period of time with the clinical training taking place at the AUB-Medical Center, Bacteriology section** to allow the coordination of theoretical information with the practicum.

Specific Outcomes:

Following completion of the course, students are expected to be able to

1. **Identify** the suitable biological specimens to be submitted to the bacteriology section
2. **Collect, handle, transport and preserve** these laboratory specimens
3. **Process** these specimens in the laboratory
4. **Conduct up to date laboratory tests and Implement** the respective correct measures for the **identification of bacteria** causing diseases in different organ systems of the body
5. **Interpret generated laboratory results and understand their relationship to diagnosis of disease**
6. **Communicate** laboratory results to the appropriate users

Course Schedule

Session	Topic	Lecturer
Week 1	Introduction Lab Safety and Biological Safety Cabinets	Melhem
Week 2	The Central Nervous System Normally Sterile Body Fluids Blood Stream Infection (BSI)	Melhem Bou Hamdan Melhem
Week 3	Anaerobes Lower and Upper Respiratory Tract	Bou Hamdan Bou Hamdan
Week 4	Urinary Tract Infections Gastrointestinal Tract Infections Genital Tract Infections	Bou Hamdan Bou Hamdan Melhem
Week 5	Mycobacteriology Evaluation of antimicrobial activity	Melhem Melhem
Week 6	Ears, Skin (Wound) and Eyes Review Session	Bou Hamdan

Text Book

Students can refer to the below for further details; however, the materials, including lectures and handouts, distributed in class are enough for the scope of the course:

Diagnostic Microbiology by Bailey & Scott, 13th edition

Clinical Microbiology Procedures Handbook, Vol 3, third edition

Student Evaluation		Meets Objectives
Practical Evaluation (AUB-MC)	40%	1-6
Written Exam (Melhem, Araj)	55%	1-5
Attendance and Participation	5%	

Course Requirements

1. **Attendance:** You are urged to attend all classes. In case of absence, you will be responsible of the material missed and for any announcements made. Students who miss more than one-fifth of class sessions are subject to withdrawing from the course with a W-grade (AUB catalogue).
2. **Exams:** You are urged to take exams on the assigned time. Make up exams will be given **only** in case of emergencies or major illness (authorized medical report is required). The final exam will follow AUB scheduling.
3. **Cheating and Plagiarism:** Cheating and plagiarism will not be tolerated. Review the Student Code of Conduct in your handbook and familiarize yourself with definitions and penalties. If you're in doubt about what constitutes plagiarism, ask your instructor because it is your responsibility to know. The American University of Beirut has a strict anti-cheating policy. Penalties include failing marks on the assignment in question, suspension or expulsion from University and a permanent mention of the disciplinary action in the student's records.
4. **Students with Disabilities:** "AUB strives to make learning experiences as accessible as possible. If you anticipate or experience academic barriers due to a disability (including mental health, chronic or temporary medical conditions), please inform me immediately so that we can privately discuss options. In order to help establish reasonable accommodations and facilitate a smooth accommodations process, you are encouraged to contact the Accessible Education Office: accessibility@aub.edu.lb; +961-1-350000, x3246; West Hall, 314".
5. **Non-Discrimination – Title IX – AUB:** AUB is committed to facilitating a campus free of all forms of discrimination including sex/gender-based harassment prohibited by Title IX. The University's non-discrimination policy applies to, and protects, all students, faculty, and staff. If you think you have experienced discrimination or harassment, including sexual misconduct, we encourage you to tell someone promptly. If you speak to a faculty or staff member about an issue such as harassment, sexual violence, or discrimination, the information will be kept as private as possible, however, faculty and designated staff are required to bring it to the attention of the University's Title IX Coordinator. Faculty can refer you to fully confidential resources, and you can find information and contacts at www.aub.edu.lb/titleix. **To report an incident**, contact the University's Title IX Coordinator Trudi Hodges at 01-350000 ext. 2514, or titleix@aub.edu.lb. An anonymous report may be submitted online via EthicsPoint at www.aub.ethicspoint.com.