



Faculty of Science
Department of Biology and Biochemistry
2nd semester 2021/2022
Course syllabus

Course information:

Course code & number: BIOL 243	Course title: General Microbiology laboratory
Prerequisite: BIOL 111	

Instructor information:

Instructor: Dr. Arwa Abu Khweek.

TA: Leena Abuattiyeh

Lectures: One lab every week- 3hours/week

Office hours: Posted on Ritaj and on the office door

Office: Science 102, 104

It is essential to buy a NEW lab manual. The manual is in color and colors are essential to decipher laboratory results.

Lab outline:

<u>Lab no.</u>	<u>TOPIC</u>
1	Introduction, safety rules and microscopes. Streaking
2	Environmental plate for growth of bacteria
3	Simple staining, Gram staining, and bacterial shapes.
4	Endospores' staining.
5	Media preparation and evaluation:
6	Bacterial population count.
7	Chemical effects on bacterial growth.
8	Physical control of microbial growth
9	Biochemical activities of bacteria.
10	Biochemical activities of bacteria.
	Unknown
	Final Lab Exam

Lab Evaluation: Performance of students in the lab section of this course will be evaluated. Understanding of lab techniques as well as successful preparation of lab reports, quizzes, and sheets (including a final exam) are worth 25% of the final class grade. Some laboratories require the submission of a lab report discussing the experiment, while other laboratories results are assessed through laboratory sheets.

Course assessment details:

The grade distribution for the laboratory is as follows:

Methods of assessment	Relative weight %
Quizzes	5%
Sheets and reports	10%
Final exam	10%

Laboratory	Methods of assessment
Simple staining, Gram staining, and bacterial shapes. Endospores' staining.	1. Unknown will be given following completion of these laboratories 2. Report in all staining
Environmental plate for growth of bacteria	Sheet
Media preparation and evaluation	Sheet
Bacterial population count	Quiz
Chemical effects on bacterial growth	Report
Physical control of microbial growth	Report
Biochemical activities of bacteria	Sheet
Final exam	10%

Students with Disabilities:

I encourage students with disabilities, including “invisible” disabilities such as chronic diseases, learning, and psychological disabilities, to explain their needs and appropriate

accommodations to me during my office hours. Please bring a verification of your disability for accommodating your needs.