

Jordan University of Science and Technology
Faculty of Science and Arts
Department of Biotechnology and Genetic Engineering
Every Semester of each year

Course Information	
Course Title	General Biology Practical
Course Number	Bio 107
Prerequisites	Bio 101 or 103 or co.
Course Website	
Instructor	Dr. Ziad Waheed Jaradat
Office Location	PH4
Office Phone	23495
Office Hours	
E-mail	jaradatz@just.edu.jo
Teaching Assistant	
Course Description	
<p>The Microscope . Experiments to illustrate chemical and physical characteristics of macromolecules, the structure and composition of plant and animal cells. Respiration , division , and genetics . Study of plant and animal tissues . Discussion and comparing frog's anatomy to human anatomy.</p>	

Text Book	
Title	A Laboratory Manual of General Biology
Author(s)	Laila Nimri and Ahmed El Bateiha
Publisher	
Year	2004
Edition	Second
Book Website	-
References	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	Nov 5	30%
Second Exam		
Final Exam	Jan 15	40%
Assignments		30%

Course Objectives		Weights
1. The lab aims at introducing students to techniques necessary to understand cell structure and function and the enzyme action, histology of organs, how to use microscope and other techniques.		50%
2. The lab also introduces the students to mitosis and meiosis and some aspects of human genetics.		30%

Teaching & Learning Methods

The laboratory instructor will give a brief talk 20-30 min on the background of the experiment and on the laboratory instruments. The instructor will then assign the students into groups of 2-3 to perform certain experiments under the supervision of the instructor.

Learning Outcomes: Upon successful completion of this course, students will be able to

Related Objective(s)		Reference(s) pages
1.	microscopy	5-11
1.	Cell structure and function	12-17
1.	Biomolecules of living things	18-22
1.	Enzyme action, biomembranes and cellular respiration	23-40
1.	Meiosis, mitosis and human genetics.	41-63
2.	Animal Tissues, Histology of animal organs, , animal organization I and II, human systems and plant tissue and organs.	64-141

Useful Resources

Course Content

Week	Topics	Chapter in Text (handouts)

Additional Notes

Assignments	Assignments will be given after every laboratory and will be handed in as reports. In addition, quizzes will be given every laboratory
Exams	Times will be announced later
Cheating	As per regulations of the Jordan University of Science and Technology
Attendance	Laboratory attendance is mandatory. Student is allowed maximally 10% absentia of the total lab hours. More than 20% absentia, student with an excuse will be drawn from the laboratory. Otherwise, student will be deprived from the Laboratory with zero mark assigned (FINAL GRADE 35)
Workload	On average you should spent 6 hours /wk
Graded Exams	-
Participation	NA
Laboratory	
Projects	