



**Al al-Bayt University
Mafraq-Jordan
Department of Biological Sciences
General Biology (404101)**

Title & Instructor	
Course Title	General Biology
Course Number	404101
Instructor	DR. Abdulrahim Aljamal
Office Location	Biological Sciences
Office Phone	
Office Hours	9 - 11
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Text book	1- Biology, 11th Edition 2018 by Campell NA, Urry LA, Cain ML, Wasserman SA, Minorsky PV and Reece JB

Course Description

3 Credit Hours. Biology 101 is dedicated to the study of the molecular and cellular basis of life. Topics include cell structure and function, information flow, metabolism, cellular reproduction, Mendelian and modern genetics. This course is designed for students planning to major in biotechnology, genetics or a related disciplines.

Mapping of Course Objectives to Program Student Outcomes

- Assessment method Describe the basic properties of the major classes of biological molecules needed for life
- Compare and contrast the structures, membranes, reproduction, and subcellular characteristics and functions of prokaryotic and eukaryotic cells
- Describe and explain the principles of Bioenergetics
- Describe the importance of cell division in maintaining the continuity of life
- Define and apply the principles of Mendelian genetics and its modern extensions to the unity and diversity of life
- Understand the molecular, structural and chromosomal basis of heredity.

Course Content		
Week	Topic	Chapter
1	Water and fitness of the environment	3
2	The structure and function of macromolecules	5
3	Cell structure	6
4	Membrane structure and function	7
5	Metabolism	8
<i>First Exam</i>		
5 & 6	Cellular respiration	9
7	Photosynthesis	10
8	The cell cycle	12
9 & 10	Meiosis and sexual life cycles	13
<i>Second Exam</i>		
11	Mendel and the gene idea	14
12	The chromosomal basis of inheritance	15
13	The molecular basis of inheritance	16
14 & 15	From gene to protein	17
16	Biotechnology	20
<i>Final Exam</i>		

Evaluation	
Assessment Tool	Weight
First Exam	20%
Second Exam	20%
Participation and homework	10%
Final Exam	50%

Policy	
Class Attendance	Your class attendance is mandatory. Absences in excess of 20% of the total lecture hours will result in your being dropped from the course with a failing grade
Makeup Exams	Make-up exam appeals should be filed within one week of the missed exam
Cell phones	Cell phones are completely prohibited during examinations according to the university regulations i.e. you are not allowed to bring your phone into the exam hall
Cell phones	Cell phones must be turned off during lectures. No incoming or outgoing calls or text messages are allowed
Cheating	Unethical conduct, including cheating during examinations, will result in punishment by the university administration