



Hashemite University
Faculty of Science
Course Syllabus
General Biology (2)
Summer Semester
2024/2025



Department of Biology & Biotechnology	Course Number: 1801041102
Course Title: General Biology (2)	
Pre-requisite: 110108105	Credit Hours: 3
Designation: Obligatory	Instructor: Arwa Qaqish
Instructor's E-mail: arwa@hu.edu.jo	Office Location: Department of Biology 215
Internet Home Page: General Biology 102 Summer 2025 Microsoft Teams	
Office Hours: Sunday, Monday, Tuesday and Wednesday 12:00 – 1:00 pm	
Lecture Times: Sunday, Monday, Tuesday and Wednesday 8:30 – 9:30 am	
Lecture Room: Ibn Rushd 104	

Course Description: This course emphasizes on the Basic principles of Animal Form and Function, Homeostasis, Metabolic Rate, Chemical Signals, Digestive Systems, Transport Systems, defenses against infection, Osmoregulation and Excretion, Reproductive systems, Electrical signals, Sensation and movement.

Text Book:

- [Biology: A Global Approach](#) by N. A. Campbell, L. Urry, J. B. Reece and others. 12th edition. Pearson Education Limited Edinburgh, 2021
- [Biology: A Global Approach](#) by N. A. Campbell, J. B. Reece and others. 11th edition, Pearson Education Limited Edinburgh, 2017

References: - Biology, by Sylvia S. Mader, 11th edition, Mc Graw Hill, 2013

- <https://www.masteringbiology.com>

Major Topics Covered:

Topics	Chapter No. in text	No. of Weeks	Contact Hours*
The Animal Body	40	1.5	4.5.
Animal Digestive Systems	42	1.5	4.5
Animal Transport Systems	43	2.5	7.5
Animal Defenses Against Infection	47	1.5	4.5
Animal Excretory System	44	1.5	4.5
Chemical Signals in Animals	41	2	6
Electrical Signals in Animals	48	2	6
Animal Reproductive Systems	45	1.5	4.5
Total		14	42

*Contact Hours include lectures and exams.

❖ **Specific Outcomes of Instruction (Course Learning Outcomes):**

After completing this course units, the students will be able to:

	Course Learning Outcomes (CLO)	(SO*)
CLO1.	Understand the hierarchy of animal structure by learning the basic features of animal tissues, and organs.	(a), (b), (c)
CLO2.	Differentiate between different animal tissues.	(a), (b)
CLO3.	Correlate the structure of particular types of tissues to their functions.	(a), (b)
CLO4.	Explain the structure and function of the major organ systems in animals (digestive, circulatory, respiratory, immune, excretory, reproductive, endocrine and nervous systems)	(a), (b), (d), (g)
CLO5.	Correlate the energy requirements of an animal to its size, activity, and environment.	(a), (d), (h)
CLO6.	Compare between Ectotherms and Endotherms based on metabolic rate.	(a), (h)
CLO7.	Understand the feedback control mechanisms in maintaining the internal environment in many animals.	(a), (d), (h)
CLO8.	Develop an understanding of comparative anatomy of animals.	(a), (b)
CLO9.	Explain the role of the nervous system and endocrine system in coordination between different body systems to maintain homeostasis.	(a), (g), (h)
CLO10.	Understand signaling in animals	(a), (g), (h)

*(SO) = Student Outcomes Addressed by the Course.

❖ **Student Outcomes (SO) Addressed by the Course:**

#	Outcomes Description	Contribution
	Applied and Natural Sciences Student Outcomes	
(a)	A broad understanding of the major concepts in the biological sciences.	H
(b)	The ability to recognize the relationship between structure and function at all levels: molecular, cellular, and organismal.	H
(c)	The technical and analytical skills to use biological instrumentation and proper laboratory techniques.	L
(d)	The ability to apply methods of scientific inquiry in biology.	M
(e)	An understanding of the role of science in society and the ethical conduct of science.	H
(f)	The ability to communicate effectively	M
(g)	A recognition of the need for, and an ability to engage in life-long learning	M
(h)	A knowledge of contemporary issues	H
H=High, M= Medium, L=Low		

Grading Plan:

First Test:	5 th -6 th week	30 points	
Second Test:	11 th -12 th week	30 points	
Final Test:	15 th -16 th week	40 points	To be announced by the registrar

General Notes :(Attendance Policy) students are expected to attend every class and arrive on time in compliance with HU regulations. In case you find yourself in a situation that prevents you from attending class or exam, you have to inform your instructor. If you miss more than 6 classes for the (Sunday, Tuesday, and Thursday model) or for the (Monday and Wednesday Model), you cannot pass the course. Makeup excuses will be accepted only for very limited justified cases, such as illness and emergencies. Changing your section without informing your instructors is not accepted at all.