



Jordan University of Science and Technology
Faculty of Science & Arts
Applied Biological Sciences Department

BIO101 General Biology (1)

First Semester 2017-2018

Course Catalog

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.

Text Book

Title	Biology: A global Approach
Author(s)	Campell, Urry, Cain, Wasserman, Minorsky, Reece
Edition	10th Edition
Short Name	1
Other Information	11th edition Pearson Education Inc.

Course References

Instructor

Name	Dr. Qutaiba Ababneh
Office Location	PH1L1
Office Hours	Sun : 08:30 - 10:00 Mon : 08:30 - 10:00 Tue : 09:00 - 10:30 Wed : 11:30 - 13:00
Email	qoababneh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Mon, Wed : 10:00 - 11:30
Room: SCIENCE HALL1

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Biological Macromolecules and Lipids	5 (114-139) From 1
Weeks 3, 4	Cell Structure and Function	7 (163-195) From 1
Week 5	Cell Membranes	8 (196-212) From 1
Week 6	Cell Respiration	10 (236-258) From 1
Week 7	Photosynthetic Processes	11 (259-283) From 1
Week 8	Mitosis	12 (284-302) From 1
Week 9	Sexual Life Cycle and Meiosis	13 (304-318) From 1
Weeks 10, 11	Mendelian Genetics	14 (319-343) From 1
Weeks 11, 12	Linkage and Chromosomes	15 (344-363) From 1
Weeks 13, 14	Nucleic Acids and Inheritance	16 (364-384) From 1

Mapping of Course Objectives to Program Student Outcomes ¹	Assessment method
Describe the basic properties of the major classes of biological molecules needed for life [1A]	First Exam
Compare and contrast the structures, membranes, reproduction, and subcellular characteristics and functions of prokaryotic and eukaryotic cells [1A]	First Exam
Describe and explain the principles of Bioenergetics [1A]	
Describe the importance of cell division in maintaining the continuity of life [1A]	
Define and apply the principles of Mendelian genetics and its modern extensions to the unity and diversity of life [3A, 1D]	
Understand the molecular, structural and chromosomal basis of heredity. [1A]	

Relationship to Program Student Outcomes (Out of 100%)					
A	B	C	D	E	F
97.50			2.50		

Evaluation	
Assessment Tool	Weight
First Exam	20%
Second Exam	20%
Quizzes	15%
Projects	5%

Final Exam	40%
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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

Date Printed: 2017-11-28

Computational Molecular Biology: An Algorithmic Approach (Computational Molecular Biology). Pavel A. Pevzner. 2.91 Mb. #13. Cytokine cell biology: a practical approach. Frances R. Balkwill. 13.07 Mb. #14. Strategy in the American War of Independence: A Global Approach (Cass Military Studies). Donald Stoker, Kenneth J. Hagan, Michael T. McMaster. 2.08 Mb. #15. Introduction to Computational Biology: An Evolutionary Approach. Bernhard Haubold, Thomas Wiehe. 3.02 Mb. #16. Introduction to Computational Biology: An Evolutionary Approach. Global bio-events: a critical approach : proceedings of the first international meeting of the IGCP Project 216, "Global biological events in earth history". Otto H. Walliser. 8.43 Mb. BIOLOGY A Global Approach ELEVENTH EDITION. Neil A. Campbell. Lisa A. Urry. Lisa is a coauthor of Campbell Biology in Focus. Michael L. Cain is an ecologist and evolutionary biologist who is now writing full-time. Michael earned an A.B. from Bowdoin College, an M.Sc. from Brown University, and a Ph.D. from Cornell University. As a faculty member at New Mexico State University, he taught introductory biology, ecology, evolution, botany, and conservation biology. Michael is the author of dozens of scientific papers on topics that include foraging behavior in insects and plants, long-distance seed dispersal, and speciation in crickets. He is a coauthor of Campbell Biolog... Biology: A Global Approach, 11Th Edn Global Edn by Campbell , Urry , Cain, P... Goodreads helps you keep track of books you want to read. Start by marking "Biology: A Global Approach" as Want to Read: Want to Read savingâ€¦| Want to Read. Currently Reading. Read. Other editions. Enlarge cover. Biology: A Global Approac has been added to your Cart. Add gift options. Buy used You can pay two hundred or more dollars for Campbell's biology book or you can buy the global version for about 40 bucks. It's basically the same book except some chapters are moved around. There are a few practice questions missing at the end of the chapters compared to the original Campbell's Biology 11th edition book, but overall for the price they are asking, I think this book is better. Read more. Helpful.