KINGDOM OF SAUDI ARABIA
Ministry of Education
AL-IMAM MUHAMMAD
IBN SAUD ISLAMIC
UNIVERSITY
Deanship of Preparatory Programs

المملكة العربية السعوديـــــــة
وزارة التعليـــــــــــم
جامعة الإمام محمد بن سعود
الإسلامية
عمادة البرامج التحضيرية

Course Syllabus

1st Semester 1441/1442

Course Number	Course name	Credit Hours	Communication Hours
BIO 072	GENERAL BIOLOGY	3	4
Edited by			
Mobile			
e-mail:			

Course's Objectives:

Upon completion of this course the student should be able to:

1- Explain the basic chemical principles that affect living things and how they obtain energy.
2- Describe the structure of eukaryotic and prokaryotic cell.
3- Describe how cell structures are adapted to their functions and explain the process of cell growth and division.
4- Analyze how cellular information is passed from one generation to another in particular the structure of DNA and how it functions in genetic inheritance.
5- Describe natural selection and explain how populations evolve to form new species.
6- Distinguish bacteria from viruses.
7- Describe the types of human tissues and systems.
8- Understand the basis of immunity and types of immunoglobulins.
9- Define characteristics and traits of animals including how they collect information about their environments and interact with it and other and organisms, also biodiversity of all organisms.

Text Book:

- Campbell, 3. Wasserman, S.A.,Reece, J.B. andetal.,–Pearson Biology 11th ed. (2017); international edition. ISBN-13: 978-1-292-17043-5.
- Campbell, 3. Wasserman, S.A., Reece, J.B. and etal.,–Pearson Biology 10th ed. (2017); international edition. ISBN-13: 978-1-292-17043-5
- Human Biology, DanielD. Chiras, (2010).Jones &Bartlett Learning; 7 edition (December 23.

Grading:

Parameters	Score
Quiz 1	10%
Mid-term	30%
Quiz 2	10%
Self learning	10%
Final exam	40%
Total	100%

Attendance:

Attendance will be taken in the first 5 minutes of the lecture (lectures). If you came late, you should remind me at the end of the class to consider your attendance for the second lecture, otherwise, you will be marked absent for the two lectures. Accepted excuses for absence should be submitted within two weeks after the absent lectures.

Course schedule(by Weeks):

No of Weeks	Lecture topics	Contact hours
W1 11/1/1442	▪ Introduction ▪ Characteristics of life - properties of living matter, Human Biology is Structured and Logical ▪ Human Taxonomy	4
W2 18/1/1442	▪ Organic Compounds - (Biological Molecules ▪ Macromolecules : - Carbohydrates - Lipids - Proteins - Nucleic acids	4
W3 25/1/1442	- Cells: Cellular Organization - Cell structure and function	4
W4 - Quiz 1		
W4 3/2/1442	-Biological Membrane	2
W5 10/2/1442	▪ Cell division, Inheritance & human genetics ▪ & Gene expression ▪ Genetic diseases	4
W6 17/2/1442	Types of Tissues in human body	4
W7 24/2/1442	• Types of body fluids • Review	2
W8 - //1441 -- Mid-term Exam		
W9 8/3/1442	Human Systems: Digestive and Circulatory ystem	4
W10 15/3/1442	Human Systems: Integumentary and Respiratory System	4
W11 22/3/1442	Human Systems: Immunity and the Lymphatic System	4
W12 29/3/1442	Human Systems: Endocrine and Nervous system	4
W13 - 7/4/1442	Human Systems: Excretory and reproductive system	2
W13 - Quiz 2		
W14 14/4/1442	Biodiversity of organism Classification of bacteria and some related diseases	4
W15 21/4/1442	Photosynthesis, cellular respiration and fermentation.	
W16 - //1442 - Final Exam		

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