





Course Specification

- (Bachelor)

Course Title: General Biology

Course Code: BIO101-4

Program: Biology

Department: Biology

College: Science

Institution: Jazan University

Version: TP-153 (1) 2024

Last Revision Date: 28 /09/2024



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A. General information about the course:

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1. C	redit hours: (4	H)			
4 H	ours				
2. C	ourse type				
A.	□University	⊠ College	□Department	□Track	□Others
В.	⊠ Required		□Elect	ive	
3. L	evel/year at wl	hich this course	is offered: (level	one/1st ye	ar)
4. C	ourse General	Description:			
livir	This course describes some of the special topics in biology like diversity among living organisms, applications of biological sciences in our life, Cell Division, Tissue, Nutrition and Fertilization and Development.				
5. Pre-requirements for this course (if any):None					
Nor	None				
6. C	o-requisites fo	r this course (if an	_{ny)} :None		
Nor	ne				
7. C	ourse Main Ob	jective(s):			
The	main objective	of this course i	s to provide the	students wi	ith basic knowledge

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	75	100%
2	E-learning		
	Hybrid		
3	 Traditional classroom 		
	E-learning		
4	Distance learning		

and practical skills in general Biology as well as some related applications in the



biology fields.



3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning	Code of PLOs aligned	Teaching	Assessment
Couc	Outcomes	with program	Strategies	Methods
1.0	Knowledge and understanding			
1.1	Define all principals, concepts, theories and aspects concerning with biology.	PLO 1.1	Lecture, discussion in class and labs	Direct: Quiz and midterm & final Exams. Indirect: student survey
1.2	Differentiate(Compa re) between different mechanisms, functions, practices and aspects related to biological sciences.	PLO 2.1	Lecture, discussion in class and labs	Direct: Quiz and mid- term & final Exams. Indirect: student survey
1.3	Apply your knowledge of biological science to solve some applied techniques and problems.	PLO 3.1	Lecture, discussion in class and labs	Direct: Quiz and mid- term & final Exams. Indirect: student survey
2.0	Skills			
2.1	Examine theoretically and practically the slides	PLO 1.3	Lecture, discussion in class and labs	Direct:

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	and diagrams related to the biology course			Quiz and mid- term & final Exams. Indirect: student survey

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction : Characteristics of Living Organisms, branches of biology, Scientific Method, and Application of Biological science	3
2.	Chemical structure of living organisms: organic molecules, inorganic molecules and Biological Reactions and Enzymes.	3
3.	Cell Structure and Function: Prokaryotic cells, Eukaryotic cells, Cell membrane, Mitochondria, Endoplasmic Reticulum, Ribosomes, Golgi Bodies, Lysosomes, chloroplast, Peroxisomes, Plastids structure, Cytoskeleton, Centrioles and Nucleolus.	4.5
4.	Tissues: Animal Tissues, Epithelia tissues, Connective tissues, muscular tissues, nervous tissues and plant	3
5.	Systematics: Classification, of Eubacteria, Plant Kingdom, Protista Kingdom and Animal Kingdom.	4.5
6.	NUTRITION: Autotrophs, Photoautotrophs, Chemoautotrophs, Osmosis, Diffusion and active transport, digestion in human and liver functions	3
7.	Metabolism: Anabolism, photosynthesis, catabolism, cellular respiration	4.5
8.	Cell Division: mitosis division and meiosis division.	4.5
9.	Osmoregulation and Excretion: Excretion in invertebrates, Excretion in human and Excretion in plants	4.5
10.	Reproduction: sexual reproduction, asexual reproduction human male genital system and human female genital system	3
11.	Fertilization and Development: FERTILIZATION & DEVELOPMENT, Exfertilization, internal fertilization	3
12.	Genetics Genetics: Monohybrid, Law of Segregation, Dihybrid crosses, Landependent Assortment and Genetics of Sex	4.5
	Total	45





D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Theoretical Assignment	3	5%
2.	Theoretical quiz	5	5%
3.	Mid-term exam	6	10%
4.	Lab Quiz	8	5%
5.	Practical assignment	9	5%
6.	Final practical exam	12	20%
7.	Final exam	13	50%
	Total		100%

^{*}Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

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Essential References	 Introduction of biology Introduction of biology (organization, reproduction and genetics)Nabih A Baeshen; Zarrg I, Al fifi and Mohammed N. Baeshen fifth edition(2011). Jeddah 21589 box 80056 K.S.A Introduction practical biology Introduction practical biology of biology (organization, reproduction and genetics) Nabih A Baeshen; Zarrg I, Al fifi and Mohammed N. Baeshen first edition (2012) Jeddah 21589 box 80056 K.S.A Biology, Campbell, N. A., 8th edition, The Benjamin / Cummings Publishing Company, USA. (2007). Biology, Solomon et al., John Wiley and Sons Inc., New York.USA. (2002). 		
Supportive References	None		
Electronic Materials	. https://www.ck12.org/biology/Other Web sites of Biology and of Wikipedia		
Other Learning Materials	 Other learning material such as computer-based programs/CD, professional standards or regulations and software 		

2. Required Facilities and equipment

Items	Resources
facilities	Classrooms and laboratories



Items	Resources
(Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	
Technology equipment (projector, smart board, software)	Smart board, Smart Board and projector
Other equipment (depending on the nature of the specialty)	Light microscopes, glassware, chemicals, consumables, dissection tools -Blood grouping kits Tissue slides Animal organs Models Preserved dissected rabbits and Frog (Toads)

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Assessor	Assessment Methods
Effectiveness of Students assessment	Students, Peer and program leader	Indirect (CES) - Indirect peer evaluation
Quality of learning resources	Students, Program assessment committee	Direct/ Indirect
The extent to which CLOs have been achieved	Students, Faculty members	Indirect
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	BIOLOGY DEPARTMENT BOARD
REFERENCE NO.	BIO2413
DATE	29/09/2024

