



T-104
2022

Course Specification



Course Title:	General Biology
Course Code:	BIOL101
Program:	B.Sc.
Department:	Biology
College:	College of Science
Institution:	Jazan University (JU)
Version:	T-104 V2022
Last Revision Date:	19 December 2022



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The Microscope	2	
Chemistry of Living Organisms	2	
The Cell	2	
Cell Division	2	
Animal Tissues	2	
Plant Tissues	2	
Taxonomy of Living Organisms	2	
Excretion	2	
Reproduction	2	
Nutrition	2	
Total	2	
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A. General information about the course:

Course Identification

1. Credit hours:	4h (3L+1P)				
2. Course type					
a.	University <input type="checkbox"/>	College <input checked="" type="checkbox"/>	Department <input type="checkbox"/>	Track <input type="checkbox"/>	Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>				
3. Level/year at which this course is offered:			Level1 / First Year		
4. Course general Description					
5. Pre-requirements for this course (if any): None					
6. Co- requirements for this course (if any): None					
7. Course Main Objective(s) The main objective of this course is to provide the students with basic knowledge and practical skills in general Biology as well as some related applications in the biology fields.					

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	33	60%
2.	E-learning		
3.	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4.	Distance learning		
5.	Other (Lab work)	22	40%

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	33
2.	Laboratory/Studio	22
3.	Field	
4.	Tutorial	
5.	Others (specify)	2
	Total	57





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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment 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 mid-term & final Exams. Indirect: student survey
1.2	Differentiate (Compare) between different mechanisms, functions, practices and aspects related to biological sciences.	PLO 1.2	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 1.3	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 and diagrams related to the biology course	PLO 2.1	Lecture, discussion in class and labs	Direct: Quiz and mid-term & final Exams. Indirect: student survey

B. Course Content

1. Theory Part:

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, Peroxisomes, Plastids structure, Cytoskeleton, Centrioles and Nucleolus.	4.5
4.	Tissues: Animal Tissues, Epithelia tissues, Connective tissues, muscular	3



	tissues, nervous tissues and plant	
5.	Systematics: Classification, of Eubacteria, Plant Kingdom, Protista Kingdom and Animal Kingdom.	4.5
6.	Metabolism: Anabolism, photosynthesis, catabolism, cellular respiration	4.5
7.	Cell Division: mitosis division and meiosis division.	3
8.	Osmoregulation and Excretion: Excretion in invertebrates, Excretion in human and Excretion in plants	4.5
9.	Reproduction: sexual reproduction, asexual reproduction human male genital system and human female genital system	3
Total		33

2. Experimental Part

No	List of Topics	Contact Hours
11.	The Microscope	2
12.	Chemistry of Living Organisms	2
13.	The Cell	2
14.	Cell Division	2
15.	Animal Tissues	2
16.	Plant Tissues	2
17.	Taxonomy of Living Organisms	2
18.	Excretion	2
19.	Reproduction	2
20.	Nutrition	2
Total		20

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

Essential References

- Introduction of biology



	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> https://www.ck12.org/biology/ Other Web sites of Biology and of Wikipedia
Other Learning Materials	<ul style="list-style-type: none"> Other learning material such as computer-based programs/CD, professional standards or regulations and software

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms and laboratories
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	Students, Peer and program leader	Indirect (CES) - Indirect peer evaluation
Effectiveness of students assessment	Students, Program assessment committee	Direct/ Indirect
Quality of learning resources	Students, Faculty members	Indirect
The extent to which CLOs have been achieved	Instructor	Direct/Indirect





Assessment Areas/Issues	Assessor	Assessment Methods
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Biology Department Board
REFERENCE NO.	BIO2214
DATE	20/9/2022AD

