



Course Specification

— (Bachelor)

Course Title: **General Biology**

Course Code: **201104-4**

Program: **Bachelor in General Biology**

Department: **Biology Department**

College: **College of Sciences**

Institution: **Taif University**

Version: **4**

Last Revision Date: **29 August 2023**



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A. General information about the course:

1. Course Identification

1. Credit hours: (4 hr)

2. Course type

A. University College Department Track Others

B. Required Elective

3. Level/year at which this course is offered: (1st level – 1st year)

4. Course general Description:

This course deals with studying introduction and historical review of Biology, characteristics of life, applications of Biology, major chemical components of living organisms, cells and tissues, principles of taxonomy as well as introduction to animal and plant physiology.

5. Pre-requirements for this course (if any):

None

6. Co-requirements for this course (if any):

None

7. Course Main Objective(s):

To identify characteristics of living organisms on level of structure and function.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	6 hr/Week	100%
2	E-learning	-	-
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	-	-
4	Distance learning	-	-

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
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1.	Lectures	45
2.	Laboratory/Studio	45
3.	Field	-
4.	Tutorial	-
5.	Others (specify)	-
Total		90

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	Identify general facts, principles, scientific terminology and concepts across Biology.	K1	Lectures Brain storming	Paper-based exams
1.2	Classify living organisms based on their different characteristics.	K2	Lectures Concept maps	Paper-based exams Practical reports
2.0	Skills :			
2.1	Demonstrate the functions of proteins, lipids, carbohydrates and nucleic acids in different biological systems.	S4	Lectures Small group activities	Paper-based exams
3.0	Values:			
3.1	Value cooperation with others in joint work planning and activities.	V2	Interactive learning Small group activities	Paper-based exams Practical exam

C. Course Content

No	List of Topics	Contact Hours
1.	Chapter 1: Getting Acquainted with Biology	3L+3P
2.	Chapter 2: Chemical Basics of Life	6L+6P
3.	Chapter 3: Cells	3L+3P
4.	Chapter 4: Tissues	3L+3P
5.	Chapter 5: Biodiversity	6L+6P
6.	Chapter 6: Metabolism and Energy cycling	6L+6P
7.	Chapter 7: Nutrition	3L+3P



8.	Chapter 8: Respiration	3L+3P
9.	Chapter 9: Excretion	3L+3P
10.	Chapter 10: Cell Division and Reproduction	3L+3P
11.	Chapter 11: Introduction to Molecular Biology	6L+6P
Total		45L+45P

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	First Periodic Exam	8 th week	20%
2.	Second Periodic Exam	12 th week	10%
3.	Semester Activities	Periodic	10%
4.	Practical Reports	Weekly	10%
5.	Final Practical Exam	15 th week	10%
6.	Final Exam	16 th week	40%
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	<ul style="list-style-type: none"> - Cecie Starr, Ralph Taggart, Christine Evers (2012). Biology: The Unity and Diversity of Life, 13th Edition, Brooks-Cole, Cengage Learning. - مقدمة علم الحياة، الجزء الأول: ٢٠١٥، التركيب والوظيفة، نبيه باعشن وزراق الفيبي ومحمد باعشن، جامعة الملك عبدالعزيز، المملكة العربية السعودية.
Supportive References	<ul style="list-style-type: none"> - Cheryl Jakab (2007). Biodiversity, Macmillan Library, Macmillan Education Australia. - مقدمة علم الحياة، الجزء الثاني: ٢٠١٩، التنظيم والتوجيه، نبيه باعشن وأحمد أبو خطوة وحسن فلمبان ومحمد باعشن، جامعة الملك عبدالعزيز، المملكة العربية السعودية.
Electronic Materials	Blackboard website Website of Saudi digital Library
Other Learning Materials	Computer-based programs and professional software

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> - Classroom (capacity not more than 40 students) - Biology Lab (capacity not more than 20 students)
Technology equipment (projector, smart board, software)	Data Show projectors Smart blackboard Portable Computer

Items	Resources
Other equipment (depending on the nature of the specialty)	Plant and animal fresh samples, models, slides of animal and plant tissues.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	random check marking committee	Direct
	Students	Indirect
Quality of learning resources	Peer Reviewer	Direct
	Students	Indirect
The extent to which CLOs have been achieved	Peer Reviewer	Direct
	Students	Indirect

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Biology Department
REFERENCE NO.	Committee number 1 – Academic Year 1445H (2023-2024G)
DATE	29/08/2023G – 12/02/1445H

