



Course Specifications

Course Title:	General Biology
Course Code:	201104-4
Program:	Bachelor in Microbiology
Department:	Department of Biology
College:	College of Sciences
Institution:	Taif University

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A. Course Identification

1. Credit hours: 4 hr
2. Course type
a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <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: 2 nd level – 1 st year
4. Pre-requisites for this course (if any): None
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	8 hr/Week	100%
2	Blended	-	-
3	E-learning	-	-
4	Distance learning	-	-
5	Other	-	-

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	50
2	Laboratory/Studio	30
3	Tutorial	-
4	Others (specify)	-
	Total	80

B. Course Objectives and Learning Outcomes

1. Course 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.

2. Course Main Objective:

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

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	Identify general facts, principles, scientific terminology and concepts across Biology.	K1
1.2	Classify living organisms based on their different characteristics.	K2
2	Skills:	
2.1	Demonstrate the functions of proteins, lipids, carbohydrates and nucleic acids in different biological systems.	S4

CLOs		Aligned PLOs
3	Values:	
3.1	Value cooperation with others in joint work planning and activities.	V2

C. Course Content

No	List of Topics	Contact Hours
1	Chapter 1: Getting Acquainted with Biology	5L+ 3P
2	Chapter 2: Chemical Basics of Life	5L+ 3P
3	Chapter 3: Cells	5L+ 3P
4	Chapter 4: Tissues	5L+ 3P
5	Chapter 5: Biodiversity	5L+ 3P
6	Chapter 6: Nutrition & Excretion	5L+ 3P
7	Chapter 7: Respiration & Metabolism	5L+ 3P
8	Chapter 8: Metabolism	5L+ 3P
9	Chapter 9: Introduction to Molecular Biology	5L+ 3P
10	General Revision	5L+ 3P
Total		50L + 30P

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding:		
1.1	Identify general facts, principles, scientific terminology and concepts across Biology.	Lectures Brain storming	Electronic exam
1.2	Classify living organisms based on their different characteristics.	Lectures Concept maps	Electronic exam Practical reports
2.0	Skills:		
2.1	Demonstrate the functions of proteins, lipids, carbohydrates and nucleic acids in different biological systems.	Lectures Small group activities	Electronic exam
3.0	Values:		
3.1	Value cooperation with others in joint work planning and activities.	Interactive learning Small group activities	Electronic exam Practical exam

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz 1 (electronic)	3 rd	5
2	Quiz 2 (electronic)	4 th	5
3	Midterm Exam (electronic)	5 th	20
4	Quiz 3 (electronic)	6 th	5
5	Quiz 4 (electronic)	8 th	5
6	Practical reports (electronic)	Continuous	15

#	Assessment task*	Week Due	Percentage of Total Assessment Score
7	Final practical exam (electronic)	11 th	5
8	Final exam. (electronic)	12 th	40

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

6 hours per week (as defined in the teaching schedule of the faculty member) for academic advice and consultations.

Teaching staff is also available using Blackboard web site and Taif University “Edugate” System.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	- Cecie Starr, Ralph Taggart, Christine Evers (2012). Biology: The Unity and Diversity of Life, 13 th Edition, Brooks-Cole, Cengage Learning. - مقدمة علم الحياة، الجزء الأول: ٢٠١٥، التركيب والوظيفة، نبيه باعشن وزراق الفيقي ومحمد باعشن، جامعة الملك عبدالعزيز، المملكة العربية السعودية.
Essential References Materials	- 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. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	- Classroom (capacity not more than 40 students) - Zoology Lab (capacity not more than 20 students)
Technology Resources (AV, data show, Smart Board, software, etc.)	Data Show projectors Smart blackboard Portable Computer
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Plant and animal fresh samples, models, slides of animal and plant tissues.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect
Quality of learning resources	Peer Reviewer Students	Direct Indirect
Extent of achieving the course learning outcomes	Peer Reviewer Students	Direct Indirect

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

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

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Biology Department
Reference No.	Committee number 14 - Academic Year 1442-1443H
Date	22\5\2022G – 21\10\1443H

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