



Course Specifications

Course Title:	General Biology 2
Course Code:	BIO202
Program:	Bachelor of Science in Biology
Department:	Department of Biology
College:	Faculty of Science
Institution:	University of Tabuk

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A. Course Identification

1. Credit hours:	4 hours (3 Theoretical + 1 Practical)
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:	Level 3/ First semester/ Second year
4. Pre-requisites for this course (if any):	General Biology (BIO101)
5. Co-requisites for this course (if any):	

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3	70%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other (laboratory)	2	30%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	39
2	Laboratory/Studio	26
3	Tutorial	
4	Others (specify)	
	Total	65

B. Course Objectives and Learning Outcomes

1. Course Description

- The course covers topics on animal and plant hormones, circulation in animals and plants, transporting system in plants and immune response in animals, taxonomic principals, animal nervous system, principles in general ecology and sensation in plants.

2. Course Main Objective

- Explain the animal and plant hormones and their functions.
- Explain the circulatory system in animals and transporting system in plants.
- Identify the basic features of general ecology (animal and plant ecology).
- Students will be able to explain the immune system in animals and plants.
- Subjects such as structure of the atmosphere, food web, ecological pyramids, succession of vegetation, natural resources and their conservation, sources and minimization of pollution are also included.



3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding:	
1.1	To describe plant and animal hormones, circulatory system in animal, the structure and function of nervous system and plant transporting system	K1
1.2	To discuss the main differences between animal and plant ecology.	K1
1.3	To indicate animal circulatory system and plant transporting system.	K1
2	Skills:	
2.1	To summarise the basics of classification systems in plants and animals	S1
2.2	To write a report describing an experiment related to plant sensation.	S1
2.3	To develop the essential practical skills relevant to the use of different instruments.	S2
3	Values:	
3.1	To show the ability to work individually and a part of team to perform scientific, professional and community tasks.	V1

C. Course Content

No	List of Topics	Contact Hours
1	Animal Hormones 1	3
2	Animal Hormones 2	3
3	Control Systems in Plants (Major plant hormones) 1	3
4	Control Systems in Plants (Major plant hormones) 2	3
5	Circulatory System in Animals	3
6	Circulatory System in Animals	3
7	Transporting System in Plants (Xylem and Phloem)	3
	Midterm Exam	
8	Animal Immunology	3
9	Principles of Taxonomy, Five Major Kingdoms.	3
10	The Nervous System in Animals (Central)	3
11	The Nervous System in Animals (Peripheral)	3
12	Principles of General Ecology (Population, Community and Ecosystem)	3
13	Plant Sensation	3
	Final Exam	
	Total	39

.No	(List of Topics (Laboratory parts	Contact Hours
1	Biology Lab Equipment and Lab Safety	2
2	Animal Hormones	4
3	Circulatory System	4
4	Animal Immunology	2

5	The Nervous System	2
Mid Term Practical Exam		
6	Plant Hormones	2
7	Stem, Leaf morphology Vascular Bundles & T.S stem and root	4
8	Types of Roots	2
9	Plant ecology	2
10	Animal Ecology	2
Final Practical Exam		
Total		26

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	To describe plant and animal hormones, circulatory system in animal, the structure and function of nervous system and plant transporting system	- Lectures. - Activities and homework.	- Quizzes. - Homework. - Final exam.
1.2	To discuss the main differences between animal and plant ecology.		
1.3	To indicate animal circulatory system and plant transporting system.		
2.0	Skills:		
2.1	To summarize the basics of classification systems in plants and animals	- Lab demonstrations. - Individual and small tasks. - Short essay.	- Assessment of lab reports and practical examinations.
2.2	To write a report describing an experiment related to plant sensation		
2.3	To develop the essential practical skills relevant to the use of different instruments.		
3.0	Values:		
3.1	To show the ability to work individually and a part of team to perform scientific, professional and community tasks.	- Lab demonstrations. - Individual presentation and group.	-Oral and written scientific report -Interactive discussion and participation

2. Assessment Tasks for Students

#	*Assessment task	Week Due	Percentage of Total Assessment Score
1	Quizzes + Assignments + Class discussion	1-13	10%
2	Midterm Theoretical Exam	8	25%
3	Midterm Practical Exam	8	10%
4	Final Practical Exam	14	15%



#	*Assessment task	Week Due	Percentage of Total Assessment Score
5	Final Theoretical Exam	15	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:

- Office hours: 6 hours / week at least.
- Academic Guidance for about 30 students as determined by admission and registration.
- Direct supervision of staff for lab works.
- Electronic communication through blackboard and e-mail.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Gareth, P. (2006): Biology: An Illustrated Guide to Science. Chelsea House Publications. ISBN-10: 0816061629.
Essential References Materials	- Gareth, P. (2006): Biology: An Illustrated Guide to Science. Chelsea House Publications. ISBN-10: 0816061629
Electronic Materials	Websites on the internet that are relevant to the topics of the course www.sciencedirect.com www.plantphysiol.org
Other Learning Materials	Multimedia associated with the text book and the relevant websites

2. Facilities Required

Item	Resources
Accommodation Classrooms, laboratories, demonstration) (.rooms/labs, etc	-A sufficient number of classrooms, well equipped -practical laboratories are available to accommodate students. Virtual session provided by the blackboard (which- (allow discussions, and sharing PowerPoint and video
Technology Resources AV, data show, Smart Board, software.) (.etc	-Data show wireless connection in the building for students and- faculties
Other Resources Specify, e.g. if specific laboratory) equipment is required, list requirements or (attach a list	Instruments required for conducting the experiments such as: light microscope, microtome, electrophoretic unit, T/A apparatus, Respiroscope

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	Indirect - Questionnaires.



Evaluation Areas/Issues	Evaluators	Evaluation Methods
Extent of achievement of course learning outcomes	Program committee - Staff members. - Students.	Direct - Questionnaires. - Reports. - Meetings
Quality of learning resources	Program leaders - Peer Reviewer	Direct & Indirect - Questionnaires. - Reports. - Meetings

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 Council
Reference No.	
Date	1/6/2022

