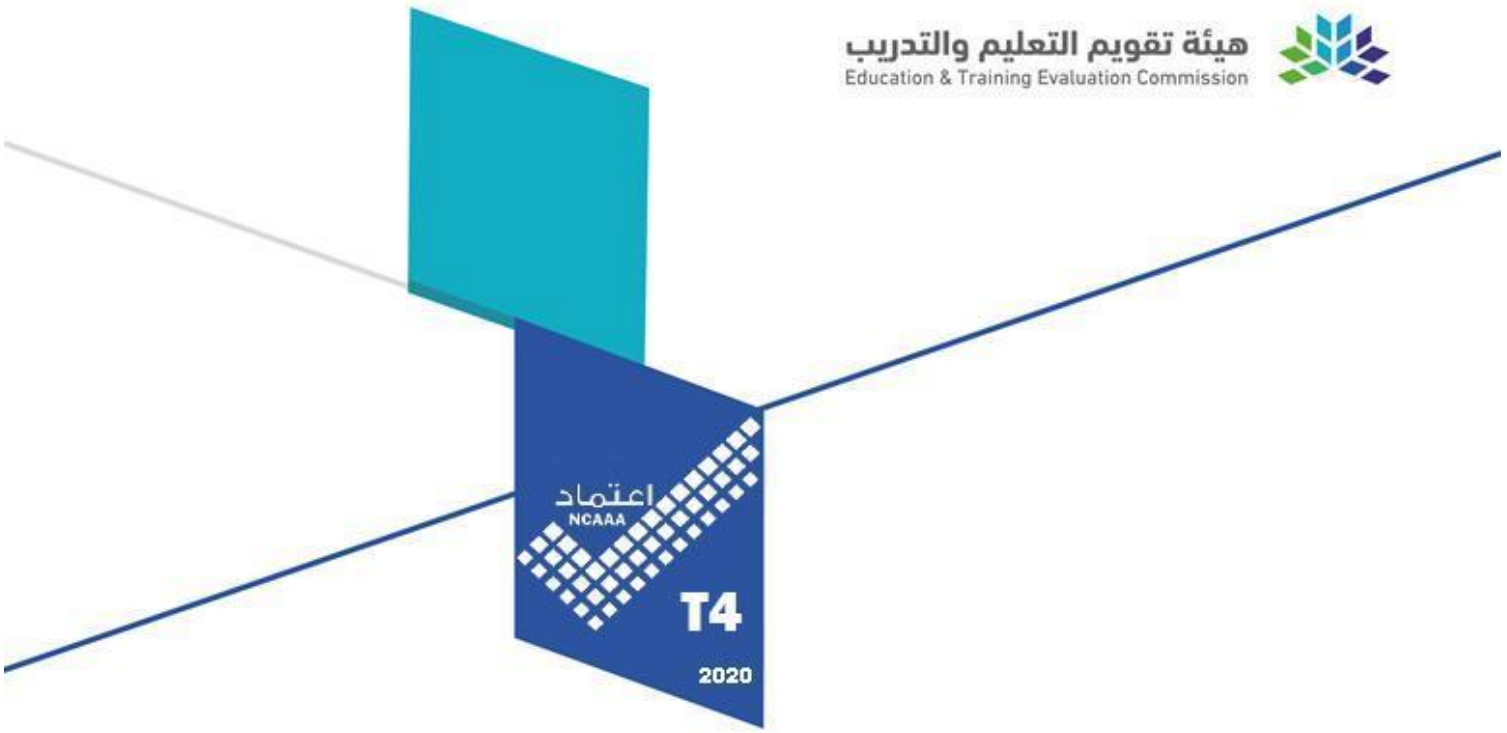
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Course Specifications

Course Title:	**General Biology**
Course Code:	**BIO101**
Program:	**Bachelor of Science in Biology**
Department:	**Department of Biology**
College:	**Faculty of Science**
Institution:	**University of Tabuk**

Table of Contents

A. Course Identification

1. Credit hours:	**3 hours (3 Theoretical) hours**						
2. Course type							
a.	University	√	College		Department		Others
b.	Required	√	Elective				
3. Level/year at which this course is offered:	**Level 2/ Second semester / First 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**	3	100%
2	**Blended**		
3	**E-learning**		
4	**Distance learning**		
5	**Other**		

7. Contact Hours (based on academic semester)

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

B. Course Objectives and Learning Outcomes

1. Course Description

- This is an introductory course that includes the study of the chemical composition of organic molecules in the living organisms; structure and the cell cycle as well as the cell proliferation; meiosis and sexual reproduction, then the circulatory system and the cardiovascular system. The digestive system and nutrition, in addition the respiratory and nervous systems. Also, studying an overview of the flowering plants and photosynthesis (Photochemical reactions and Calvin cycle).

2. Course Main Objective

- To provide scientific fundamentals knowledge of biological science to expand the perceptions of students on Biology.
- To develop necessary skills for the study of other scientific courses in subsequent program levels.
- To develop capabilities in students for scientific way of thinking and illustrate the positive impact of the general biology science in daily life.
- To stimulate interest in Biology and Biology-related careers.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	To identify nature and chemistry of organic molecules.	**K1**
1.2	To recognize the main differences between Eukaryotic and prokaryotic cells.	**K1**
1.3	To describe human body systems (structure and function).	**K1**
1.4	To outline the plant tissues structure and function.	**K1**
2	**Skills:**	
2.1	To compare between cell types and reproduction types.	**S1**
3	**Values:**	
3.1	To work independently as a member or as a team.	**V1**

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to biology.	3
2	Chemistry of organic molecules.	3
3	Eukaryotic and prokaryotic cell structure and function.	3
4	Eukaryotic and prokaryotic cell structure and function.	3
5	Cell cycle and Mitosis cell division.	3
	First Midterm Exam	
6	Meiosis and sexual reproduction.	3
7	Circulation and cardiovascular system	3
8	Digestive system and nutrition.	3
9	Respiratory system.	3
10	Nervous system.	3
11	Flowering plants (structure and organization).	3
	Second Midterm Exam	
12	Photosynthesis (light reactions).	3
13	Photosynthesis (Calvin cycle reactions)	3
	Final exam	
Total		**39**

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 nature and chemistry of organic molecules.	- Lectures.	- Quizzes. - Homework. - Periodic exam. - Final exam.
1.2	Recognize the main differences between Eukaryotic and prokaryotic cells.	- Activities and homework.	- Quizzes. - Homework. - Periodic exam.

			- Final exam.
1.3	To describe human body systems (structure and function).	- Lectures. - Use of the Internet.	- Quizzes. - Homework. - Periodic exam. - Final exam.
1.4	To outline the plant tissues structure and function.	- Lectures - Activities and homework.	- Quizzes. - Homework. - Periodic exam. - Final exam.
2.0	**Skills**		
2.1	To compare between cell types and reproduction types.	- Lectures - Activities and homework.	- Quizzes. - Homework. - Periodic exam. - Final exam.
3.0	**Values**		
3.1	To work independently as a member or as a team.	- Work in groups.	- Interactive discussion and participation.

2. Assessment Tasks for Students

#	*Assessment task	Week Due	Percentage of Total Assessment Score
1	Short quizzes	3	10%
2	First Midterm Exam	6	20%
3	Second Midterm Exam	12	20%
4	Final exam	15	50%

***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 hrs./ week at least.
- Academic Guidance: about 30 students allotted to each faculty member.
- Direct supervision of staff for lab works.
- Electronic communication through black board and e-mail.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	- Sylvia Mader, (2013) Biology (11th Ed.) ISBN13: 978-0073525501, ISBN10: 0073525502, McGraw-Hill Publishing Company. 2. Biology Compiled by University of Tabuk for first year students.
Essential References Materials	NA
Electronic Materials	NA
Other Learning Materials	NA

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	- NA

G. Course Quality Evaluation

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