TISHK INTERNATIONAL UNIVERSITY FACULTY OF EDUCATION Department of PHYSICS EDUCATION, 2022-2023 Spring Course Information for BIO 318 GENERAL BIOLOGY

Course Name:	GENERAL BIOLOGY				
Code Reg	ular Semester	Theoretical	Practical	Credits	ECTS
BIO 318	6	3	-	3	3
Name of Lecturer(s):	Abdulrahman Mahmo	ud Dogara			
Teaching Assistant:	Mamosta Shynyar				
Course Language:	English				
Course Type:	Non-area Elective				
Office Hours	Thursday 1500-1600				
Contact Email:	abdulrahman.mahmud	d@tiu.edu.iq			
	Tel:07511599240				
Teacher's academic profile:	Lecturer				
,	Objectives: Introduction to the principles of biology for the science major. Topics include a history of biology, scientific method, general concepts and principles of biological molecules, cell structure and function, photosynthesis, cell respiration, cell reproduction, genetics, evolutionand ecology. Laboratory designed to supplement General Biology I for science majors. Withdrawal from lecture mandates withdrawal from laboratory.				
(Course overview):	This course introduces the principles and concepts of biology. Emphasis is on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, and other related topics. Upon completion, students should be able to demonstrate the understanding of life at the molecular and cellular levels Laboratory exercises reinforce lecture topics and include microscope techniques.				

COURSE CONTENT		COURSE CONTENT	
Week	Hour	Date	Торіс
1	3	29/1-2/2/2023	Introduction To Biology
2	3	5-9/2/2023	The characteristics of living things
3	3	12-16/2/2023	The characteristics of living things
4	3	19-23/2/2023	Biological Organization
5	3	26/2-2/3/2023	The Chemistry of Life
6	3	5-9/3/2023	The Microuniverse
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7	3	12-16/3/2023	The structure of eukaryotic cells
8	3	19-23/3/2023	Plant Cell
9	3	26-30/3/2023	Animal cell
10	3	2-6/4/2023	Midterm Exam
10	3	2-0/4/2023	Wildlettii Exaiti
11	3	9-13/4/2023	Genetics
12	3	16-20/4/2023	Plant Classification
13	3	23-27/4/2023	Animal classification
14	3	30/4-4/5/2023	Plant anatomy
15	3	7-11/5/2023	Ecology
16	3	14-18/5/2023	Biotechnology
17	3	21-25/5/2023	Revision
18	3	28/5-1/6/2023	Final Exam
19	3	4-8/6/2023	Final Exam
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COURSE/STUDENT LEARNING OUTCOMES

- 1 To Introduce to the principles of biology for the science major.
- 2 To learn basic concepts and principles of biology majors.
- 3 To learn biology subjects for science courses of Secondary schools
- 4 To make communication biology topics with real life.
- 5 To learn basic biology laboratory skills and safety regulations

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

Program Learning Outcomes

Discuss concepts and principles of physics.

- Conduct proper experiments safely and interpret the data in physics teaching physics. Use the results of recent education and subject-specific developmental research when designing, 3 implementing and justifying their own practice as a teacher. Apply analytical and theoretical skills to model and solve physics problems. 4 Identify students' misconceptions and deal with them in classroom. 5 ı 6 Prepare physics lessons with appropriate learning materials and teaching methods. 7 Effectively assess, plan, teach, organize, and manage physics classrooms. Use appropriate methods and techniques to improve students' critical thinking, creative thinking and problem-solving skills in physics. Use required modern methods and techniques for student-centered teaching by considering individual and cultural differences of students. Effectively use a variety of teaching technologies and techniques and classroom strategies to foster 10 student learning. 11 Communicate effectively and work collaboratively within the context of a global society. 12 Exhibit character and decision-making skills embodying professionalism and ethical behavior. Prerequisites (Course 1. Keegstra K. Plant cell walls. Plant physiology. 2010;154(2):483-6. 2. Esau K. Plant Reading List and anatomy: LWW; 1953. 3. Beck CB. An introduction to plant structure and development: plant
- Prerequisites (Course Reading List and References):

 Student's obligation (Special Requirements):

 Course Book/Textbook:

 Course Book/Textbook:

 Other Course Materials/References:

 Other Course Materials/References:

 Course Materials/References:

 Other Course Materials/References:

 Course Book/Textbook:

 Other Course Materials/References:

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 Presta K. Plant cell walls. Plant physiology. 2010;154(2):483-6. 2. Esau K. Plant anatomy: LWW; 1953. 3. Beck CB. An introduction to plant structure and development: plant anatomy: LWW; 1953. 3. Beck CB. An introduction to plant structure and development: plant anatomy for the twenty- first century: Cambridge University Press; 2010. 4. Lopez F, Barclay G. Plant anatomy and physiology. Pharmacognosy: Elsevier; 2017. p. 45-60

 Other Course Materials/References:

 Other Course Ma

Teaching Methods (Forms of Teaching):

Lectures, Practical sessions, Exercises, Presentation, Seminar, Excursion, . .

COURSE EVALUATION CF	RITERIA	
Method	Quantity	Percentage (%)
Participation	1	5
Quiz	2	5
Midterm Exam	1	20
Laboratory	1	15
Practical Exam	1	10
Final Exam	1	40
Total		100

Examinations: Essay Questions, Fill in the Blanks, Short Answers, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD					
Activities	Quantity	Workload Hours for 1 quantity*	Total Workload		
Theoretical Hours	19	3	57		
Practical Hours	19	0	0		
Final Exam	1	9	9		
Participation	1	5	5		
Quiz	2	8	16		
Midterm Exam	1	8	8		
Laboratory	1		0		
Practical Exam	1		0		
Total Workload			95		
ECTS Credit (Total workload/25)			4		

Peer review

Signature:Signature:Signature:Name:Name:Name:LecturerHead of DepartmentDean