TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Fall
Course Information for MA 101 GENERAL BIOLOGY I

Course Name:	GENERAL BIOLOGY I				
Code	**Regular Semester**	**Theoretical**	**Practical**	**Credits**	**ECTS**
MA 101	1	2	2	3	5

Name of Lecturer(s)-Academic Title:	Mehmet Özdemir - PhD
Teaching Assistant:	Ms. Zahra
Course Language:	English
Course Type:	Main
Office Hours	2 hours
Contact Email:	mehmet.ozdemir@tiu.edu.iq Tel:07508170410
Teacher's academic profile:	PhD
Course Objectives:	The course aims to clarify all aspects and sections of life. The biological and chemical processes in the living organisms. The component of biota and organisms on the planet and their interaction with each other and with the environment will be described thoroughly. This course deals with structures and processes that are common to all organisms, from ancient types of bacteria to humans and seed-bearing plants. Topics include cell structure and function, energy production, cell division, mitosis and meiosis, Mendelian genetics, chromosomes and heredity, DNA structure and replication, transcription and translation, DNA technology, evolution, systematics and phylogeny, and origins of prokaryotic and eukaryotic diversity
Course Description (Course overview):	-

COURSE CONTENT

Week	Hour	Date	Topic
1	2	19-23/12/2021	Biology, the Study of Life-introduction and What is life?
2	2	26-30/12/2021	Classification of Living Organisms.
3	2	2-6/1/2022	Chemistry of Life : The macromolecules- Carbohydrate/ Lipid.
4	2	9-13/1/2022	Chemistry of Life : The macromolecules-Protein and Nucleic Acids.
5	2	16-20/1/2022	Midterm Exam
6	2	23-27/1/2022	Cell
7	2	30/1-3/2/2022	Dynamic Activities of Cells.
8	2	6-10/2/2022	Genetics: Cell Growth and Division-Cell cycle and cell division- Mitosis
9	2	13-17/2/2022	Genetics and Meiosis
10	2	20-24/2/2022	Final Exam
11	2	27/2-3/3/2022	Final Exam
12	2	6-10/3/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

1	Student will be familiar with life scientifically
2	Students can group the living organisms
3	students will know the processes of life
4	Students will get introduced to the environment and the interactions of living organisms

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES
(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

	Program Learning Outcomes	Cont.
1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.	P
2	apply principles of evidence-based medicine to determine clinical diagnoses.	A
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.	I
4	formulate and implement acceptable treatment modalities to various disease states.	P
5	use technology effectively in the delivery of instruction, assessment, and professional development.	P
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.	A
7	exhibit organizational skills, accountability, and ethical behavior.	I
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.	I
9	apply problem-solving and decision-making skills.	P
10	apply and promote health policies and regulatory standards in the field career.	A
11	develop research in the field of medical analysis using qualitative and quantitative methods.	I

Prerequisites (Course Reading List and References):	Key references: Campbell Biology (11th Edition) by Lisa A. Urry (Author), Michael L. Cain (Author), Steven A. Wasserman (Author), Peter V. Minorsky (Author), Jane B. Reece (Author) *Useful references: handouts lectures *Magazines and review (internet.
Student's obligation (Special Requirements):	Attendances is mandatory for both practical and theoretical sections Each week students should spend 3-5 hours on textbook readings Submit all assignments and homework by the posted deadlines plagiarism is not accepted. - Read the syllabus for each class. The syllabus tells you what the instructor expects of you. -Be on time. If you come in after class has started, you disrupt the entire class. - Be prepared for class. Complete reading assignments and other homework before class so that you can understand the lecture and participate in discussion. Always have pen/pencil, paper, and other specific tools for class. - No cell phones allowed in class! If your cell phone rings (or vibrates audibly) in class then you will be dismissed for the day – as an unexcused absence. You will not be able to make up any missed work for the day. If your cell phones rings during an exam, you will receive a '0' on that exam.
Course Book/Textbook:	Concepts of Biology; Sylvia S. Mader, Biology Stephen Nowicki, Solomon Biology,Campbell Biology (11th Edition) by Lisa A. Urry (Author), Michael L. Cain (Author), Steven A. Wasserman (Author), Peter V. Minorsky (Author), Jane B. Reece (Author)
Other Course Materials/References:	Lectures, Videos and websites
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Seminar, Project, Assignments, , ,

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Participation	1	4
Quiz	2	5
Homework	3	2
Midterm Exam	1	30
Laboratory	1	10
Final Exam	1	40
Total		**100**

Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	12	2	24
Practical Hours	12	2	12
Final Exam	1	1	1
Participation	1	1	1
Quiz	2	2	4
Homework	3		0
Midterm Exam	1		0
Laboratory	1		0
Total Workload			**42**
ECTS Credit (Total workload/25)			**1.68**

Peer review

Signature: Signature: Signature:
Name: Name: Name:
Lecturer   Head of Department   Dean