

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	General Biology
Course number	AMSL1303
Faculty	
Department	
Course type	Major Needs
Course level	1
Credit hours (theoretical)	3
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - The students will increase their Knowledge of Biology & Levels of Biological Organization
2 - The students will be more aware about the Chemical Context of Life & Water and Life.
3 - The students will have foundation in Classifying the Diversity of Life
4 - Clarify all the basic information, differences and similarities between Protists, Fungi, Viruses and Plant cell.
5 - The cell will be clarified and explained to the students, including the organelles it contains, how it works and how it relates to each other
6 - The mitotic and meiotic cell cycle will be explained in detail, in addition to how a healthy cell turns into a cancerous cell

Intended Learning Outcomes

Knowledge and Understanding	* Basic of life and living organisms
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Course Contents

1 - Introduction to Biology & Levels of Biological Organization.
2 - The Chemical Context of Life & Water and Life.
3 - Classifying the Diversity of Life.
4 - Protists
5 - Fungi
6 - Viruses
7 - Plant cell
8 - The Cell
9 - Membrane Structure & Function
10 - The Cell Cycle
11 - Meiosis and Sexual Life Cycles.

Teaching and Learning Methods

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| 1 - Lectures using power point
2 - Brainstorming and Discussion
3 - Case Study
4 - Present Explaining Videos |
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Teaching and Learning Methods for the Disabled Students

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| 1 - Case Study
2 - Lectures using power point
3 - Brainstorming and Discussion
4 - Present Explaining Videos |
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Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Three Quizzes	Third , seven and twelve week	Thirty each quiz ten marks
Mid Term Exam	The week after the first Quiz	Thirty marks
Final Exam	The last week in the semester	Forty marks

Books and References

Essential books	Urry, Cain, Wasserman, Minorsky and Orr. (2021): Campbell Biology, 12th edition, Pearson Education, Inc, United States of America.
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Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
Introduction to Biology & Levels of Biological Organization	First week	To understand what the meaning of Biology and the levels of biological organization			
The Chemical Context of Life & Water and Life	Second and Third weeks	Knowing chemical bonds, elements need for healthy life and finally the water properties			
Classifying the Diversity of Life	Fourth, Fifth, sixth and seventh weeks	Domains: Bacteria, Archaea, and Eukarya will be explain			
, Fungi and Viruses Protists	Eight and ninth weeks	To understand why most biologists still use the term protist, but only as a suitable way to refer to eukaryotes that are not plants, animals, or fungi and study the basic of fungi and viruses .			
Plant and animal cells	Tenth week	The study of cell and organelles and function of each			
The Cell Cycle	Eleventh and Twelfth weeks	Mitosis and Meiosis and the phases of cell cycle			