Kingdom of Saudi Arabia
National Commission for
Academic Accreditation & Assessment

المملكة العربية السعودية
الهيئة الوطنية للتقويم
والاعتماد الأكاديمي

ATTACHMENT 5.

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

T6. Course Specifications (CS)

Preparatory Biology (PBIO-121)

Course Specifications

Institution : University of Hail	Date : 4/6/2016
College/Department : Preparatory year /Basic Science department	

A. Course Identification and General Information

1. Course title and code: Preparatory Biology (PBIO-121)			
2. Credit hours : 3 credits hours			
3. Program(s) in which the course is offered : (If general elective available in many programs indicate this rather than list programs) Basic Sciences/ Medical track			
4. Name of faculty member responsible for the course : Dr.Samer Qiblawi			
5. Level/year at which this course is offered : Preparatory year			
6. Pre-requisites for this course (if any) : None			
7. Co-requisites for this course (if any) : None			
8. Location if not on main campus : Preparatory year Deanship -Baqaa road -Hail			
9. Mode of Instruction (mark all that apply)			
a. traditional classroom		What percentage?	
b. blended (traditional and online)	√	What percentage?	60%
c. e-learning		What percentage?	
d. correspondence		What percentage?	
f. other	√	What percentage?	40
Comments:			

B Objectives

1. What is the main purpose for this course? **The course aims to teach the students on introductory learning material of biology that may be used later in advanced courses (eg. clinical biochemistry, physiology, anatomy and histology) besides helping the students to acquire a large English vocabulary of biological science.**
2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field) 1- The course content to be updated based on the course report improvement plan. 2- The course references to be updated each year based on course reports.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

1. Topics to be Covered for theoretical part		
List of Topics	No. of Weeks	Contact hours
Introduction: Characteristics of Living Things Levels of Organization **Bio molecules I:** Carbohydrates and Lipid. **Bio- molecules II:** Protein and Levels of structure **Bio -molecules III**: Nucleic Acids (DNA &RNA)	2	4
Cellular Organization I: Cell Organelles **Cellular Organization II:** Cell Organelles and cytoskeleton **Biological Membrane I:** Cell Membrane Structure & Functions **Biological Membrane II:** Movements of Substances	2	4

Types of tissues(epithelial ,connective ,muscle & nervous) **Cell Cycle , Mitosis & Meiosis .Inheritance & Human Genetics & Gene expression**	**3**	**6**
Internal transport: Basic components & Functions of the circulatory system.**Food Processing and Nutrition I:**General Components of the Digestive System. Functions of the accessory glands **Food Processing & Nutrition II :** Overview of enzymatic digestion **Nervous System:** Divisions of The Nervous System (CNS & PNS). Types of cells in the Nervous System. Nerve Impulse (Definition- Mechanism)	2	4
Immunobiology I & II: Specific & Nonspecific defense Mechanisms . T & B Lymphocytes. **Endocrine system I & II:** Hormones & Endocrine Glands	2	4
Reproductive system I : Male Reproductive System **Reproductive system II :** FeMale Reproductive System **Urinary system** : Structure of the Kidney & Urine Formation	2	4
Respiratory system : Structure and Functions of The Respiratory System. **Support and Movement :** Functions of the Muscle System In Relation to The Skeleton Muscle contraction & Sliding Filament Theory.	1	2

Topics to be Covered for practical part		
List of Topics for practical part	No. of Weeks	Contact Hours
Safety and Rules	1	2
Glassware and Instruments	2	2
The Microscope	3	2
Human Brain	4	2
Human Skeletal System	5	2
Animal Tissues I	6	2
Animal Tissues II	7	2
Cell Division (Mitosis & Meiosis)	8	2
Gametogenesis	**9**	2
Movement of Substances across Membranes (Osmosis)	10	2
Dissection of Rabbit	11	2
Blood group	12	2