

**AMERICA'S CHOICE HIGH SCHOOL**

**BIOLOGY COLLEGE PREP**

**COURSE SYLLABUS-TERM 2**

**January 07 to June 11, 2008**

Instructor: Ateh C.M, PhD

<b>SEMEST. /WK</b>	<b>Date</b>	<b>Unit</b>	<b>TOPIC</b>	<b>Standards</b>	<b>TESTS/PROJECTS</b>
1	1/07	<b>SCHOOL RULES</b>	School and Classroom rules; Safety rules; Scientific tools; characteristics of living things		
2	1/14	<b>MATTER</b>	Components of matter: atomic structure; mass and volume		Test 1
3	1/21	<b>CHEMISTRY OF LIFE</b>	Biomolecules: Carbohydrates, lipids, proteins, water	1h	EXAMPLES AND DESCRIPTION OF LIVING THINGS
4	1/28		Nucleic acids: DNA and RNA	1h	Test 2
5	2/04		Enzymes and their actions in living things; the pH scale and solutions	1b	
	2/11		<b>MOVING WEEK</b>		
6	2/18	<b>CELL</b>	Plasma membrane; Homeostasis and organelles	<b>1a, 1e</b>	
7	2/25		Passive and active transport; the role of ATP; Respiration and photosynthesis	<b>1f, 1g</b>	OSMOSIS
8	3/03		Cell complexity; reproduction; asexual reproduction (mitosis) and gamete formation (meiosis)	<b>1c, 2a, 2b,</b>	Test 1
9	03/10				
10	03/17		<b>MINIMUM DAY &amp; FINALS</b>		
	03/24		<b>SPRING BREAK</b>		

SEMEST.II					
1	03/31	<b>ECOLOGY</b>	Abiotic and biotic factors; food chains; food webs; habitats; ecosystems	6a, 6b, 6e, 6f	ECO-COLUMN Test 3
2	04/07		Biological cycles	6d	BIOME PROJECT
3	04/14		Factors that affect population; Human population growth and human activities	6c	Test 4
	04/21		<b>ACHS BREAK</b>		
4	04/28	<b>GENETICS</b>	DNA and RNA structure, DNA replication, protein synthesis, mutations	<b>1d, 4a, 4b, 4c, 4d, 4e, 5a, 5b, 5c</b>	DNA MODEL
5	05/5	<b>(cst testing)</b>	Punnett squares Dominant, recessive, and intermediate traits, multiple alleles, polygenic	<b>2c, 2d, 2e, 2f, 2g</b>	Test 2
6	05/12		Pedigrees Inheritance, sex-linked traits,	<b>3a, 3b, 7c, 7d</b>	CLASSIFICATION OF ORGANISMS
7	05/19	<b>EVOLUTION</b>	Natural selection; the origin of life, fossil and biochemical evidence	<b>8a, 8b, 8c, 8d, 8e</b>	Test 3
8	05/26	<b>PHYSIOLOG Y</b>	Complementary activity of major body systems; Respiratory; digestion; circulatory; excretory; nervous; mechanisms to combat diseases	<b>9a, 9b, 9c, 10a, 10b, 10c, 10d, 10e</b>	ORGAN SYSTEM PROJECT Test 4
9	06/02		Dissection to show organs and systems		
10	06/09		<b>MINIMUM DAYS &amp; FINAL</b>		

The instructor reserves the right to make changes to the syllabus as need be. However, students will be notified of any changes.