

EFFECTIVE: SEPTEMBER 2003 CURRICULUM GUIDELINES

Α.	Division:	Science and Technology	Date:	May 2002
В.	Department /		New Course	Revision X
	Program Area	Biology		
			If Revision, Section(s)	A, B, G, J, K, L, M, N,
			Revised	O, P, Q, and

M: Course Objectives / Learning Outcomes

Upon completion of this course, the student should be able to:

- 1. Describe the structure and functions of the digestive system.
- 2. Describe the structures and functions of carbohydrates, lipids, proteins, vitamins, and minerals.
- 3. Describe the relationship between nutrition and health.
- 4. Explain cellular respiration processes and describe the relationship between metabolism and body composition.

- 4. CIRCULATORY SYSTEM
- -organization circulatory routes
- -blood structure and function
- -heart structure and function
- -electrocardiogram
- -cardiac cycle
- -cardiac output
- -blood vessels structure and function
- -circulation physiology blood flow and blood pressure
- -hemostasis
- -immunity and the lymphatic system
- -disorders
- 5. RESPIRATORY SYSTEM
- -structure and function of the nose, pharynx, larynx, trachea, bronchi, and lungs.
- -pulmonary ventilation
- -air volumes and capacities
- -respiratory exchange
- -transport of gases
- -control and regulation of respiration
- -disorders
- 6. EXCRETORY SYSTEM
- -structure and function of the kidney, nephron, ureters, bladder, and urethra
- -physiology of urine formation
- -homeostasis
- -disorders