

COURSE DESCRIPTION:

The Biology course deals with the structure and function of the human body.

This course also includes common stimuli which affect the structure and function of man as well as man's adaptive responses, which enable him to maintain a relatively constant state.

Understanding the human body and how it reacts to various stimuli will enable the student to relate this knowledge to the practice of nursing.

COURSE OBJECTIVES:

- I. Describe biological adaptation in relation to the structure and function of the human body. (C-Application)
  - A. Describe the structure of the human body (C-Comprehension)
  - B. Describe the function of the human body (C-Comprehension)
  - C. Describe the relationship of function to structure in the human body. (C-Application)
  - D. Describe the changes that occur in structure and function throughout life cycle from conception to death. (C-Comprehension)
- II. Explain the concept of biological adaptation. (C-Application)
  - A. Describe the biological stimuli that impinge upon man. (C-Comprehension)
  - B. Explain the concept of adaptation using examples from the biological mode. (C-Application)
  - C. Describe the variables that influence biological responses (C-Application)
  - D. Illustrate adaptive and/or maladaptive biological responses (C-Application)
  - E. Describe how an individual maintains and promotes biological adaptation. (C-Application)

COURSE CONTENT:

Anatomy

1. Cell incl. Physiology
2. Microbiology incl. Physiology
3. Integumentary system
4. Bones
5. Muscles
6. Circulatory System
7. Nervous System
8. Endocrine System
9. Digestive System
10. Respiratory System
11. Urinary System
12. Reproductive System
13. Special Senses

COURSE CONTENT CON'T

Physiology - Adaptive Responses

1. Stress Response - general
2. Strict functions in Same order as anatomy
3. Fluid and Electrolyte Balance (incl. Acid-base)
4. Adaptive Responses - eg: inflammatory response  
prevention of blood loss  
compensatory Mech. for Alkalosis and  
Acidosis