

## LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

### **SPECIAL NOTE:**

This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

### **TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):**

Please check with the LCC bookstore <http://www.labette.edu/bookstore> for the required texts for this class.

**COURSE NUMBER:** DNAS 105

**COURSE TITLE:** ANATOMY & PHYSIOLOGY  
FOR DENTAL ASSISTANTS

**SEMESTER CREDIT HOURS:** 1

**DEPARTMENT:** Dental Assistant

**DIVISION:** Health Science

**PREREQUISITES:** Successful completion of DNAS 101, DNAS 110,  
DNAS 111, DNAS 114, DNAS 118, and DNAS 119

**REVISION DATE:** September 2016

### **COURSE DESCRIPTION:**

This course will cover body systems and the physiology and anatomy of those systems. Students will learn the relationship and interaction of those systems in relationship with dental treatment.

### **COURSE OUTCOMES AND COMPETENCIES:**

**Students who successfully complete this course will be able to:**

1. Discuss the basic structure and anatomy of the human body.
  - Explain the difference between anatomy and physiology.
  - Identify the planes and associated body directions used to divide the body into sections.
  - List the four levels of organization in the human body.
  - Identify and describe the four types of tissue in the human body.
  - Name and locate the two major body cavities and their components.
  - Name and locate the two reference regions of the body.
2. Describe the interaction among the ten body systems.
  - Name and locate each of the 10 body systems.

- Explain the purpose of each body system.
- Describe major components of each body system.
- Explain how each body system functions.
- Describe the signs and symptoms of common disorders related to each body system.
- Give examples of conditions that require interaction among body systems.

3. Identify and describe the skin and body membranes.

- Identify each epithelial cell.
- Describe the basic functions and structure of the skin.
- Identify the appendages of the skin.

4. Discuss, describe, and identify the skeletal system.

- Discuss the functions of the bones.
- Describe the axial skeleton.
- Identify the appendicular skeleton.
- Differentiate between the fibrous, cartilaginous, and synovial joints.

5. Discuss the purpose of the muscular system.

- Discuss the different types of muscles.
- Discuss the functions of muscles.
- Discuss contraction of a skeletal muscle.
- Discuss muscle movements, types and names.
- Discuss the head, trunk, and neck muscles.
- Discuss upper and lower limb muscles.

6. Discuss, identify, and differentiate the nervous system.

- Describe the organizational structure of the nervous system.
- Identify the central nervous system.
- Identify the peripheral nervous system.
- Differentiate between the cranial and spinal nerves.

7. Discuss and identify the special senses.

- Discuss the anatomy of the eye.
- Discuss the anatomy of the ear.
- Identify chemical senses.

8. Discuss, identify and describe the endocrine system.

- Describe the functions of the endocrine system.
- Identify the major organs of the endocrine system.
- Discuss hormone producing tissues and organs.

9. Discuss and identify the composition and functions of the blood.

- Identify the components of blood.

- Discuss blood groups and typing.

10. Discuss, identify and describe the cardiovascular system.

- Identify the anatomy of the heart.
- Describe the circulation of the blood vessels.

11. Discuss and describe the lymphatic systems and body defenses.

- Discuss the lymph nodes.
- Discuss the body defenses.

12. Discuss, identify and describe the respiratory system.

- Identify the functional anatomy of the respiratory system.
- Discuss the physiology of the respiratory system.

13. Discuss, identify and describe the digestive system and body metabolism.

- Identify the anatomy of the digestive system.
- Describe the functions of the digestive system.
- Discuss nutrition and metabolism.

14. Identify, describe and discuss the urinary system.

- Identify the locations and structure of the kidneys.
- Describe the functions of the ureters, urinary bladder, and urethra.

15. Discuss and identify the reproduction system.

- Describe the male reproduction system.
- Describe the female reproduction system.
- Discuss pregnancy and embryonic development.