



COURSE SYLLABUS

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COURSE: **BIO 163** **BASIC ANATOMY AND PHYSIOLOGY**

HOURS: Lecture: 4 Lab/Shop: 2 Work Exp/Clinical: 0 Credits: 5

COURSE DESCRIPTION:

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the pre-major/elective requirement in A.A. and A.S. degree programs. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

PREREQUISITE(S): None

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Open Educational Resources (OER) are listed in the course Moodle.

STUDENT LEARNING OUTCOMES:

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

1. List the major factors that contribute to acid-base equilibrium, electrolyte balance and enzyme function in the human body.
2. Describe the basic location and function of carbohydrates, proteins, lipids, and nucleic acids in the human body.
3. Identify and describe the levels of organization of the human body.
4. Name the various regions and parts of the human body using proper anatomical terminology.
5. Describe the basic anatomy and physiology of each of the eleven organ systems.
6. Give specific examples of neural and hormonal mechanisms that are used in correcting homeostatic imbalances in the body.
7. Give specific examples of, and describe major diseases that are prevalent in developing countries.
8. Describe the processes of osmosis and diffusion, and explain how these processes affect the movement of substances throughout the body.

*****Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**