

# Virginia Community College Course Content Summary

**Course Title:** BIO 145 - Basic Human Anatomy & Physiology \_\_\_\_\_

## **Course Description**

Surveys human anatomy and physiology. Covers basic chemical concepts, cellular physiology, anatomy, and physiology of human organ systems. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. 4 credits

## **General Course Purpose**

The purpose of BIO 145 is to provide students with an overview of structures and functions of major organ systems and how they contribute to homeostasis.

## **Course Prerequisites/Corequisites**

None.

## **Course Objectives**

Upon completing the course, the student will be able to:

Introduction to A&P

- Define and use appropriate terminology to effectively communicate information related to anatomy and physiology.
- Describe the principle of homeostasis and the use of feedback loops to control physiological systems in the human body.
- Describe the basic chemical architecture and processes of the human body.
- Describe the components and processes of a typical animal cell.
- List the four tissue types and state the function and location of each.

Organ Systems

Identify the anatomy and describe the physiology of the:

- Integumentary system
- Skeletal system
- Muscular system
- Nervous system
- Endocrine system
- Cardiovascular system and blood
- Lymphatic system and immunity
- Respiratory system
- Digestive system
- Urinary system
- Fluid, electrolyte, and acid-base balance
- Male and female reproductive systems

## **Major Topics to be Included**

Course Prefix and Number \_\_\_\_\_ (*To be assigned by the VCCS*)

Introduction to A&P  
Organ Systems

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(*To be completed by VCCS*) Course Approved: Month \_\_\_\_\_ Year \_\_\_\_\_