

# Common Course Outline

PAST 225

## Human Pathophysiology

2 Credits

### The Community College of Baltimore County

#### Description

**PAST 225 – Human Pathophysiology** provides the basic structural, functional, and pathological foundations needed for the understanding of disease processes in humans; covers the reaction of the human body to disease from the cellular to the multi-system level; prepares the entering physician assistant student for future courses in medicine and prevention.

**2 Credits:** 6 lecture hours per week; 5-week course

**Prerequisites:** Admission to Physician Assistant Program; PAST 224

#### Overall Course Objectives:

Upon completion of the course, students will be able to:

1. analyze and discuss the effects of pathophysiologic alterations in the cell and tissues;
2. discuss theoretical mechanisms of both normal and abnormal cellular control;
3. describe organs, tissues and function in the diseased states;
4. outline the function and mechanism of immunity and the immune system;
5. discuss the alterations in homeostasis that may be expected in the pathological state;
6. describe the relationship between abnormal anatomical structure and abnormal function and disease;
7. explain how the human organism compensates for alterations in structure and/or function in given disorders;
8. explain how a specific prevention strategy or treatment may block, alter or reverse the course of a given disorder;
9. analyze a hypothetical data set of signs, symptoms, and physiologic measurement; and
10. synthesize a disease model and describe the resultant pathologic manifestations compared to known human pathophysiology.

## **Major Topics:**

- I. Disease models affecting the:
  - A. endocrine system
  - B. cardiovascular system
  - C. immune system
  - D. reproductive system
  - E. respiratory system
  - F. urinary system
  - G. nervous system
  - H. musculoskeletal system
  - I. integumentary system
  - J. gastrointestinal system
- II. Disease process models affected by:
  - A. infection
  - B. immune disorders
  - C. iatrogenesis
  - D. toxins
  - E. genetics
  - F. tumors/malignancies

## **Course Requirements:**

Grading procedures will be determined by the individual faculty member but will include the following:

1. Mandatory attendance and participation in the classroom;
2. Minimum of 3 written examinations

Written Assignments: Students are required to use appropriate academic resources.

## **Other Course Information:**

This course is a required core physician assistant course whose successful completion is required to progress through the designed curriculum sequence.

Other pathophysiology courses cannot serve as substitute curriculum for this course.