

Common Course Outline
BIOL 252
Physiological Pathology
3 Semester Hours

The Community College of Baltimore County

Description

BIOL 252 - 3 credits - Physiological Pathology covers the principles regarding the alteration of the structure and function of tissues in disease and the development and abnormal effects of disease in the various organ systems. It acquaints students with the anatomical changes that have occurred because of disease and relates the work of the mortician to that of the pathologist, coroner, and medical examiner. This course is required for students in the Mortuary Science Program.

Prerequisite: Students must apply and be accepted into the Mortuary Science Program via School of Health Professions Admissions Office and BIOL 130 or other college-level anatomy approved by the Mortuary Science Program Director with a minimum grade of “C”.

Overall Course Objectives

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

1. define and differentiate among the major divisions of pathology;
2. compare and contrast the roles of the medical examiner and the coroner, and explain the importance of autopsy;
3. define the terms related to nature of disease, causes of disease, and describe the process of disease;
4. apply the functions of cellular components to explain cellular reaction to injury and common causes and complications of structural abnormalities;
5. describe the processes of inflammation and repair, and identify possible complications associated with each process;
6. identify and describe common conditions related to disturbances of the circulatory system;
7. compare and contrast the characteristics of normal cells with transformed cells, and benign and malignant neoplasms, and describe the causes and complications of common types of neoplasms;
8. list and describe common types of cysts and non-neoplastic changes, and recognize the complications associated with each;
9. apply a system’s structure and functions to identify predisposing factors and discuss common changes (complications) associated with diseases of:
 - a. the blood, the heart and blood vessels;
 - b. the lymphatic system;
 - c. the digestive system;
 - d. the respiratory system;
 - e. the urinary system;
 - f. the reproductive system;

- g. the nervous system;
- h. the skeletal system;
- i. the integumentary system; and
- j. the endocrine system.

Major Topics

- I. Pathology, its divisions and plan of study
- II. The nature and cause (etiology) of diseases
- III. Cellular reactions to injury
- IV. Developmental abnormalities
- V. Inflammation and repair
- VI. Disturbances in circulation
- VII. Neoplasms (tumors) and cysts
- VIII. Diseases of:
 - a. the blood, the heart and blood vessels
 - b. the lymphatic system
 - c. the digestive system
 - d. the respiratory system
 - e. the urinary system
 - f. the reproductive system
 - g. the nervous system
 - h. the skeletal system
 - i. the integumentary system
 - j. the endocrine system

Course Requirements

Grading/exams: Grading procedures will be determined by the Mortuary Science Program Director and will include at least two interim exams and a comprehensive final examination. The individual faculty member may require specific writing assignments. Individual faculty members may include additional course objectives, major topics, and other course requirements above the minimum expectations stated in the Common Course Outline.

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| GRADING POLICY: | A = 92 – 100% |
| | B = 85 – 91.9% |
| | C = 78 – 84.9% |
| | D = 70 – 77.9% |
| | F = 0 – 69.9% |