

Hagerstown Community College
OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE:* BIO 207 Pathophysiology for Health Professionals, 3 CREDITS

INSTRUCTOR: Judith N. Peisen, PhD.

SEMESTER/YEAR: Fall 2013

COURSE DESCRIPTION:* This is a lecture/recitation course which builds on a foundation of normal human physiology. Students are exposed to the major disturbances of normal function and the basic mechanisms involved in diseases of the major organ systems. The course includes discussions of the general aspects of the common human pathophysiological conditions and syndromes. Prerequisites: BIO 103, 103L and BIO 104, 104L.

TEXTBOOK:* Porth CM. Essentials of Pathophysiology. 2011. Lippincott, Williams, and Wilkins Publishing Co (ISBN 978-1-58255-724-3)

STUDENT LEARNING OUTCOMES:* At the end of this course, students should be able to

1. Describe the transformation of normal cells to cancer cells including the role of carcinogenic agents and incidents viruses;
2. Explain pathologies of the blood, the blood vessels, and the heart, including heart failure and circulatory shock;
3. Discuss the major disorders of the respiratory systems, including respiratory failure;
4. Describe the principal disorders of the urinary system and renal failure;
5. Detail the major pathologies of the gastrointestinal tract;
6. Describe the principal disorders of the hepatobiliary system and exocrine pancreas
7. Explain the major disorders of the pituitary gland, thyroid gland, endocrine pancreas and adrenal glands, including diabetes mellitus and how these disorders disrupt homeostasis
8. Describe and explain the major pathologies of the brain and spinal cord.

Total Hours of Coursework:

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.