

COCONINO COMMUNITY COLLEGE  
COURSE OUTLINE

Created by: Thomas Lehman  
Revised by: Tom Lehman  
Status: Permanent  
Effective Term: Fall 2020

Spring 2007  
Fall 2019

**A. Identification:**

1. Subject Area: Biology (BIO)
2. Course Number: 218
3. Course Title: Human Pathophysiology
4. Credit Hours: 4
5. Catalog Description: Prerequisites: BIO 201, BIO 202. This course surveys disease processes that affect the body systems, focusing on altered physiological mechanisms in cells and organ systems. Four lecture.

**B. Course Goals:**

This course will build upon an understanding of the structures and functions of the human body by covering the major diseases and pathologies that affect cells and organ systems.

**C. Course Outcomes:** Students will be able to:

1. Identify the major organs of each of the systems in the human body.
2. Describe the physiological effects of major pathologies on each of the human organ systems.
3. List the major causes of disease that affect human systems.
4. State in written form the relationships between physiological dysfunction and homeostatic responses.
5. Discuss the progression of certain diseases in group settings.

**D. Course Outcomes Assessment:**

Must include:

1. Lecture quizzes and/or exams.
2. Comprehensive final exam

**E. Course Content:**

Will include:

1. Cellular Adaptation, Stress, Inflammation and Healing.
2. Mechanisms of Disease (Immune, Infection, Trauma, Heredity, Metabolic, Neoplasm).
3. Cardiovascular and Hematological Disorders.
4. Respiratory and Digestive Disorders.
5. Congenital Disorders, Age-related Disorders, Disorders Associated with Pregnancy.
6. Urinary and Reproductive Disorders.
7. Nervous System and Mental Disorders.
8. Endocrine Disorders.
9. Musculoskeletal and Integumentary Disorders.