

COCONINO COMMUNITY COLLEGE
COURSE OUTLINE

Revised by: Thomas Lehman
Status: Permanent
Effective Term: Fall 2018

December 19, 2017

A. Identification:

1. Subject Area: Biology (BIO)
2. Course Number: 218
3. Course Title: Human Pathophysiology
4. Credit Hours: 4
5. Catalog Description: This course surveys disease processes that affect the body systems, focusing on altered physiological mechanisms in cells and organ systems. Prerequisites: BIO 201, BIO 202. BIO 205 is recommended. Four lecture. Fall, Spring.

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:

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:

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

E. Course Content:

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.