



Course Code PHAR-216	Course Title Pathophysiology/Παθοφυσιολογία	Credits (ECTS) 4
Department Life & Health Sciences	Semester Fall	Prerequisites PHAR112
Type of Course Required	Field Pharmacy	Language of Instruction Greek/English
Level of Course 1 st Cycle	Year of Study 2 st year	Lecturer Edna Yamasaki/Kyriakos Felekkis
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The purpose of this course is to provide the student with basic understanding of pathophysiology as a change from normal physiological functioning of the various systems of the human body. The course is based on illness and disease within a systems framework across the lifespan. Emphasis is put on select illnesses most often encountered by occupational therapists, rehabilitation specialists, and other health professionals. The course focuses on critical thinking used to analyze the signs and symptoms based on the pathophysiology of these conditions

Learning Outcomes:

The student be able to:

1. Apply physiological principles to understanding pathophysiological processes within the systems of the human body.
2. Understand the differences between physiological functioning and pathophysiological processes in the various systems of the human body.
3. Analyze the relationships among signs and symptoms and pathophysiological processes of selected illnesses and diseases in adults.
4. Apply critical thinking to analyze presentations of signs and symptoms based on the underlying pathophysiological processes.

Course Contents:

The student will demonstrate basic knowledge in the following:

- a. Common disease categories and terminology
- b. Common diagnostic methodology
- c. Clinical characteristics and effects of inflammation

- d. Basic immunology, hypersensitivity, and autoimmune disorders
- e. Pathogenicity, epidemiology, and control of infectious diseases
- f. Pathogenesis of congenital and genetic disorders
- g. Etiology and diagnosis of neoplastic diseases
- h. Pathogenesis of cardiovascular and circulatory diseases
- i. Pathogenesis of lymphatic disorders
- j. Etiology and pathogenesis of pulmonary diseases
- k. Pathogenesis and treatment of reproductive disorders
- l. Diseases of the gastrointestinal tract and accessory organs
- m. Basic endocrinology and endocrine disorders
- n. Types and pathogenesis of neurologic diseases
- o. Disorders of the musculoskeletal system
- p. Diseases of the urinary and renal systems
- q. Fluid, electrolyte, and acid/base imbalances
- r. Research and reporting on selected medical disorders

Learning Activities and Teaching Methods:

Lectures, class discussion, assignments, laboratory and laboratory reports

Assessment Methods:

Final Examination, course work

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Gould, B. E	Pathophysiology for the Health Professions 3rd ed., Philadelphia, PA, Saunders Publishers, 2006			

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
McPhee Stephen J	Παθολογική φυσιολογία	Litsas		